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ASSESSMENT REPORT

describing

DIAMOND DRILLING

at the

RAU TREND

GF, Q , R, Rau and S Claims

NTS 106D/01, 02, 06, 07 & 08
Latitude 64°11'N; Longitude 134°22'W

in the
Mayo Mining District,
Yukon Territory

prepared by
Archer, Cathro & Associates (1981) Limited

for
ATAC RESOURCES LTD.

by
Matthew R. Dumala, P.Eng.
April 2012

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INTRODUCTION

The Rau Trend is located in central Yukon along the northern edge of the Tintina Gold Belt, a band of intrusion-related gold deposits that extends across Yukon and Alaska. The property is primarily of interest for carbonate hosted gold but also hosts lead-zinc-silver and tungsten mineralization, which are often associated with intrusion-related gold elsewhere within the belt. The property is owned 100% by ATAC Resources Ltd. and is a part of the Rackla Gold Property.

This report describes an exploration program that was conducted on a number of showings within the Rau Trend between July 11 and August 24, 2011 by Archer, Cathro & Associates (1981) Limited on behalf of ATAC. The author participated in and supervised that program, which consisted of 2,113.20 m of diamond drilling in 10 holes. The author's Statement of Qualifications appears in Appendix I.

PROPERTY LOCATION, CLAIM DATA, ACCESS AND INFRASTRUCTURE

The Rau Trend is located in central Yukon at latitude 64°11'N and longitude 134°22'W on NTS map sheets 106D/01, 106D/02, 106D/06, 106D/07 & 106D/08 (Figure 1). The Rau Trend is the western part of the much larger (1,641 km²) Rackla Gold Property consisting of 8861 contiguous mineral claims. All of the work outlined in this report lies entirely within two claim groupings comprising 1202 contiguous mineral claims covering an area of approximately 24,400 hectares (244 km²). The claims are all registered with the Mayo Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Specifics concerning claim registration are tabulated below while the locations of individual claims are shown on Figure 2.

Claim Name	Grant Number	Expiry Date*
GF 3-4	YC32305-YC32306	April 28, 2022
Q 1-13	YC92361-YC92373	April 28, 2019
14	YC92470	April 28, 2019
15-109	YC92375- YC92469	April 28, 2019
R 1-103	YC68334- YC68436	April 28, 2021
105-434	YC68438- YC68767	April 28, 2021
457-489	YC68790-YC68822	April 28, 2021
496-535	YC68829-YC68868	April 28, 2021
540-577	YC68873-YC68910	April 28, 2021
582-616	YC68915-YC68949	April 28, 2021
621-651	YC68954-YC68984	April 28, 2021
656-685	YC68989-YC69018	April 28, 2021
690-719	YC69023-YC69052	April 28, 2021
724-753	YC69057-YC69086	April 28, 2021
758-783	YC69091-YC69116	April 28, 2021
788-810	YC69121-YC69143	April 28, 2021
815-836	YC69148-YC69169	April 28, 2021
841-860	YC69174-YC69193	April 28, 2021

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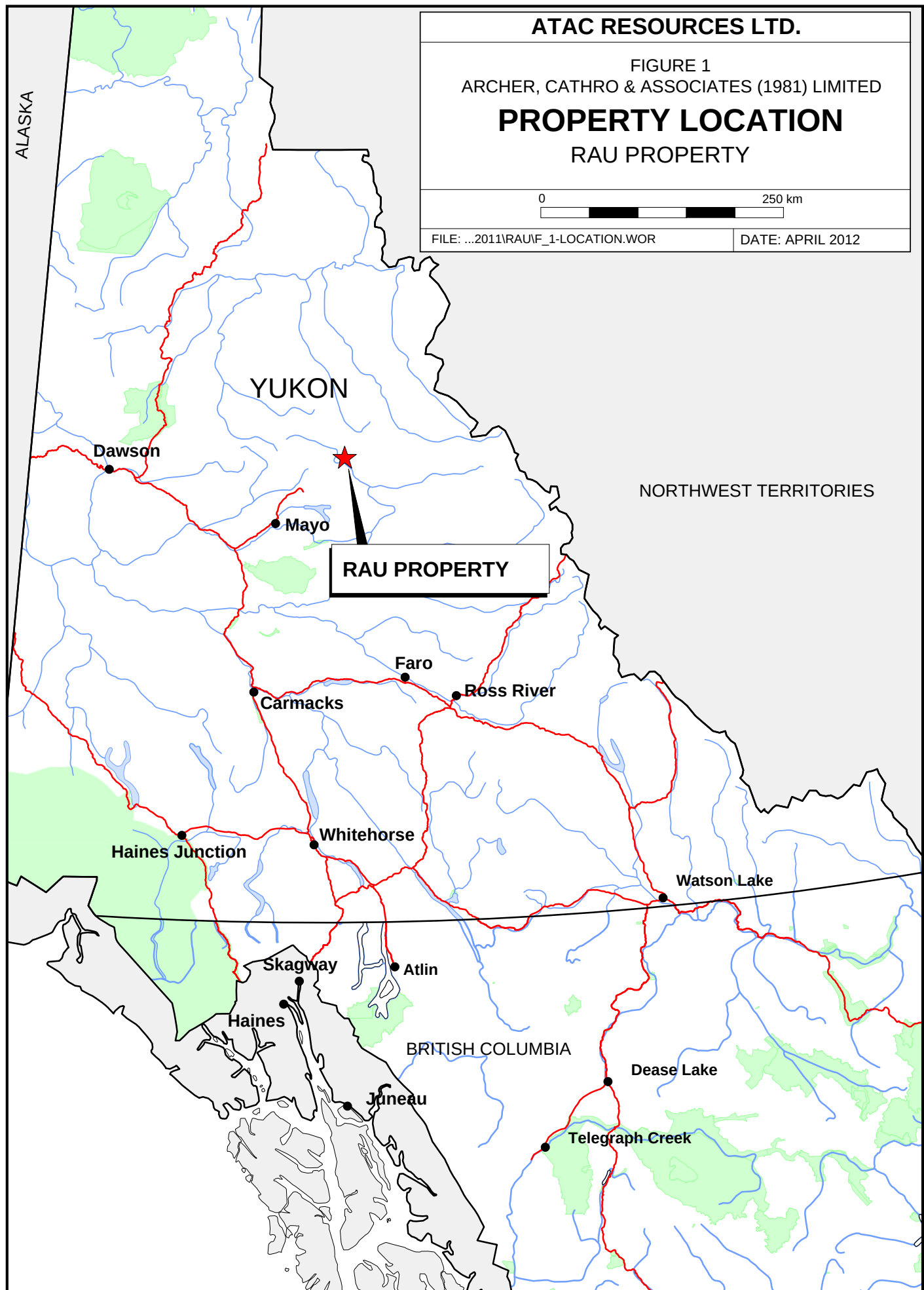
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

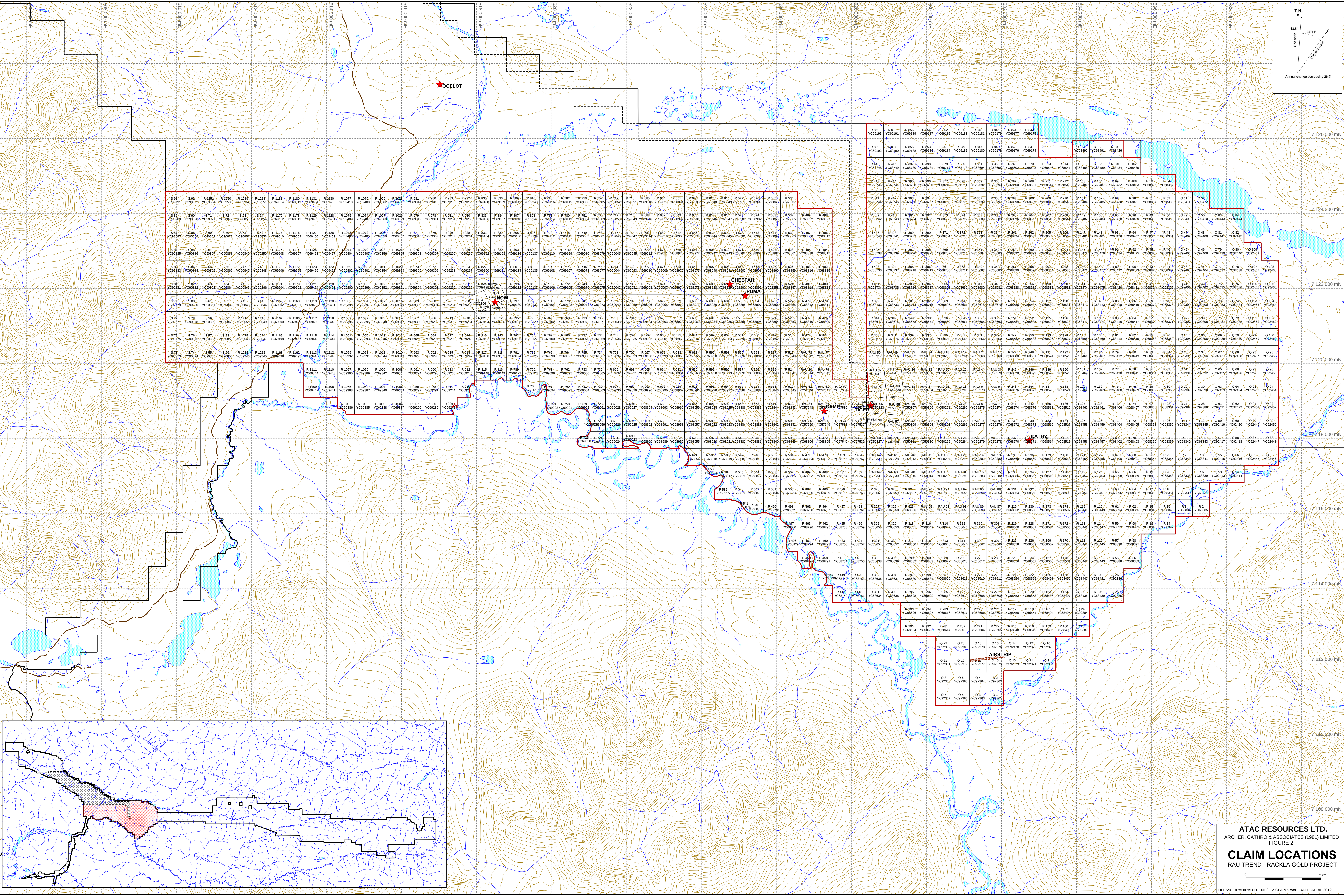
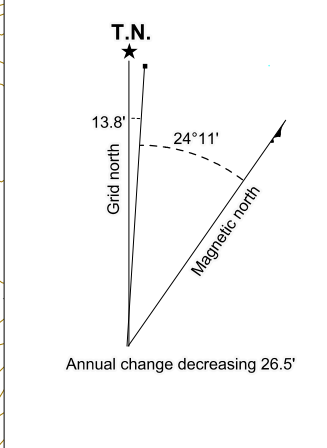
PROPERTY LOCATION
RAU PROPERTY

0 250 km

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FIGURE 2
CLAIM LOCATIONS
RAU TREND - RACKLA GOLD PROJECT

0 2km
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909-933	YC69242-YC69266	April 28, 2021
956-981	YC69289-YC69314	April 28, 2021
1004-1029	YC69337-YC69362	April 28, 2021
1052-1077	YC69385-YC69410	April 28, 2021
1108-1131	YC69441-YC69464	April 28, 2021
1162-1181	YC69495-YC69514	April 28, 2021
1212-1219	YC69545-YC69552	April 28, 2021
1250-1251	YC69583-YC69584	April 28, 2021
Rau 1-55	YC50268-YC50322	April 28, 2028
56	YC50324	April 28, 2028
57-64	YC50324-YC50331	April 28, 2028
70-96	YC57534- YC57560	April 28, 2021
99	YC69961	April 28, 2022
S 43-92	YC90844-YC90893	April 28, 2019

* Expiry dates include 2011 work which has been filed for assessment credit but not yet accepted.

The property lies 100 km northeast of Mayo, the nearest supply centre. The closest road access is to the community of Keno City, situated about 49 km by road northeast of Mayo and 55 km by air southwest of the property. Mayo and Keno City can be reached in all seasons by two wheel drive vehicles using the Yukon highway system. The Wind River trail crosses the property and is also accessible via the Yukon highway system from McQuesten Lake near Keno City. This winter trail has been used intermittently by various exploration companies since it was built in the late 1960s.

In 2011, access to the property and daily logistical support were accomplished using a Bell 206L4 helicopter based on the property and operated by Fireweed Helicopters Ltd. of Whitehorse. An existing camp located at the Tiger Zone served as a staging area and as a base of operations. During the field season, a gravel airstrip was constructed at the confluence of the Beaver and Rackla rivers in order to better support exploration activities on the property. An alternate airstrip, suitable for small fixed wing aircraft is located at Kathleen Lakes, along the northeastern boundary of the property. These lakes are also suitable for float equipped aircraft.

EXPLORATION HISTORY

In the central part of the current Rau property, Cominco Limited staked the Beaver claims in 1968 based on results of regional geochemical sampling done the year before. Later that year, L. Elliott staked the nearby Now claims and optioned them to Cominco, which completed mapping and soil sampling in 1968 and 1969 (Johnson and Richardson, 1969a and b).

In 1977, Prism Joint Venture (Asamera Oil Corp, Chieftain Development Company Limited, Prism Resources Ltd, Siebens Oil & Gas Limited and E & B Exploration Limited) restaked Cominco's claims as part of a larger block that extended for about 20 km along the north side of the Beaver River. In 1979, Dome Petroleum Ltd replaced Siebens in the joint venture.

Prism conducted most of its activities around the original Beaver claims. Soil sampling and mapping were performed in 1977 (Montgomery and Dewonck, 1978) and additional soil sampling and trenching were done in 1978 (Prism Joint Venture, 1979a). In 1979 Prism completed six diamond drill holes totalling 610 m (Dewonck, 1980). This work focused primarily on sedimentary exhalite and Mississippi Valley type lead-zinc mineralization, but resulted in the discovery of a narrow gold-rich vein material (the Now Showing).

NDU Resources Ltd. staked claims over the Now Showing in 1987 to cover the lead, zinc and silver soil geochemical anomalies identified by Cominco and Prism. The following year, NDU conducted a geochemical sampling program which focused on the gold vein mineralization at the Now Showing (Cathro, 1989).

In 1977, Prism also performed minor soil sampling near a strong gossan developed along the eastern edge of the current Rau property (Kathy Showing) (Prism Joint Venture, 1979b).

ATAC's interest in the area was prompted by an isolated, high gold value (150 ppb) reported by a regional-scale stream sediment geochemical survey, conducted by the Geological Survey of Canada (Hornbrook, et al 1990). This value is in the 99th percentile of gold results from the survey and is supported by a 99th percentile tungsten value (25 ppm). The sample was collected near the Rackla Pluton, east of the Tiger Zone.

In summer 2006, ATAC staked 64 claims to cover the anomalous drainage. During the staking, a number of rock and soil samples were collected, many of which returned anomalous values for tungsten and a few were notably enriched in gold, lead, zinc, silver and copper. cursory prospecting relocated scheelite-bearing tremolite skarn (Flat Top Showing) and discovered tungsten in diopside-actinolite skarn and highly fractionated intrusive rocks, about 1500 m to the south.

In 2007 ATAC completed geological mapping, prospecting, grid soil sampling and helicopter-borne variable time-domain electromagnetic (VTEM) surveys (Eaton and Panton, 2008). This work partially delineated a large hydrothermal system centered on the largely buried Rackla Pluton. Following that program, ATAC staked an additional 32 claims, mostly to improve coverage around a very strong gold-in-soil anomaly outlined on the western edge of the grid.

In the summer of 2008, ATAC conducted geological mapping, prospecting, soil and stream sediment geochemical sampling, 3423.21 m of diamond drilling in 18 holes and property-wide helicopter-borne magnetic variable time-domain electromagnetic (VTEM) surveys on the claims not covered by the Yankee Hat option agreement. Drilling identified three stacked, gold-bearing horizons in what is now known as the Tiger Zone. The central horizon (Discovery Horizon) contains gold in iron carbonate replacement and hosts the most abundant mineralization. In 2008 grid soil sampling and stream sediment sampling was extended to the northwest. Property wide geophysical and geochemical surveys completed later in the season suggested the trend extends for as much as 22 km (Dumala, 2009). In response to positive results, ATAC added 1340 claims to cover the favourable stratigraphy along the anomalous trend.

In 2009, ATAC continued to delineate the Tiger Zone with an additional 58 diamond drill holes totalling 9578.30 m (Dumala and Lane, 2010). Drilling identified a significant oxide component to the northwest, within the Tiger Zone. Prospecting in 2009 also identified several new showings containing mineralization similar to that found at the Tiger Zone. These include the Cub, Lion, Jaguar, Panther, Cougar, Puma, Cheetah and Lynx Showings.

During the summer of 2010, ATAC completed six diamond drill holes (945.82 m) at the Cheetah Showing and three (198.73 m) at the Now Showing. Drilling at the Cheetah Showing intersected dolomite and limestone cut by a steeply dipping oxidized zone. All three holes at the Now Showing were terminated before their target depths due to poor ground conditions and inadequate equipment (Dumala, 2011).

GEOMORPHOLOGY

The Rau Trend is roughly 66 km long and covers a diverse geomorphological setting. Much of the claim block covers low lying vegetated valley bottom and similarly covered low elevation ridge systems.

The core portion of the Rau Trend is situated in the Nadeleen Range of the Selwyn Mountains and is drained by creeks that flow into the Rackla and Beaver Rivers, which are both part of the Yukon River watershed. Local topography is alpine to subalpine and features north and south-trending rocky spurs and valleys that flank a main east-west trending ridge. Elevations range from 725 m alongside the Beaver River in the centre of the claim block to 1800 m atop a peak, referred to as Monument Hill. Outcrop is most abundant near ridge crests and in actively eroding creek beds. Most hillsides are talus covered at higher elevations and are blanketed by glacial till at lower elevations. Soil development is moderate to poor in most areas.

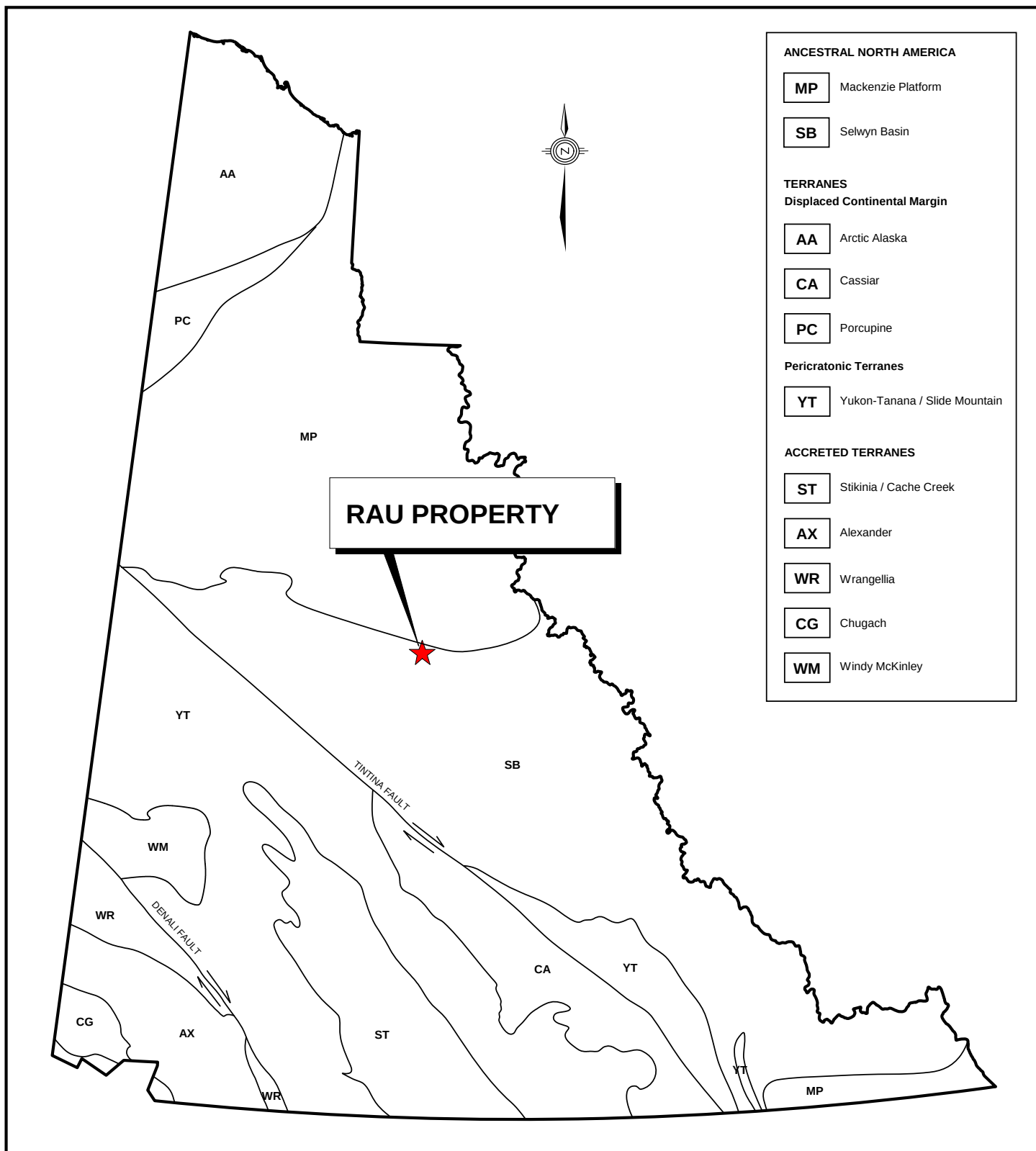
Treeline in the vicinity of the property is at about 1500 m. Slopes above that elevation are unvegetated. The density and size of vegetation gradually increases on lower slopes, and the valley floors are well treed with mature black spruce. Understorey typically consists of low shrubs and moss. Moderately steep, south facing slopes are well drained and are often lightly forested with poplar. Steep, north facing slopes are usually unvegetated. Gentler, spruce- and moss-covered terrain likely exhibits widespread permafrost.

GEOLOGY

Regional Geology

The Geological Survey of Canada performed geological mapping in the vicinity of the Rau property at 1:250,000 scale in the 1960s (Green, 1972) and 1970s (Blusson, 1978). More recent mapping in the area was completed at 1:50,000 scale by Indian and Northern Affairs Canada (Abbott, 1990 and Roots, 1990).

The Rau property lies within a band of regional-scale thrust and high angle reverse faults that imbricate rocks of Selwyn Basin and Mackenzie Platform (Figure 3). Selwyn Basin stratigraphy consists of regionally metamorphosed, basinal sediments of Neoproterozoic to Paleozoic age.



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FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

RAU TREND - RACKLA GOLD PROJECT

0 200 km

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Mackenzie Platform stratigraphy comprises dominantly shallow water carbonate and clastic sediments that were deposited from Mid-Proterozoic through Paleozoic times. Both packages of sediments were deposited on the western margin of ancestral North America.

The thrust faults were active during Jurassic to Cretaceous times (160 to 130 Ma), when the area underwent compressional orogenesis related to large-scale plate convergence (Fingler, 2005). During Late Cretaceous (94-90 Ma), intermediate to felsic plutons of the Tombstone Suite were emplaced (Mortensen et al, 2000). Another compressional orogenic event, which occurred about 65 Ma, was accompanied by emplacement of felsic intrusions assigned to the McQuesten Suite.

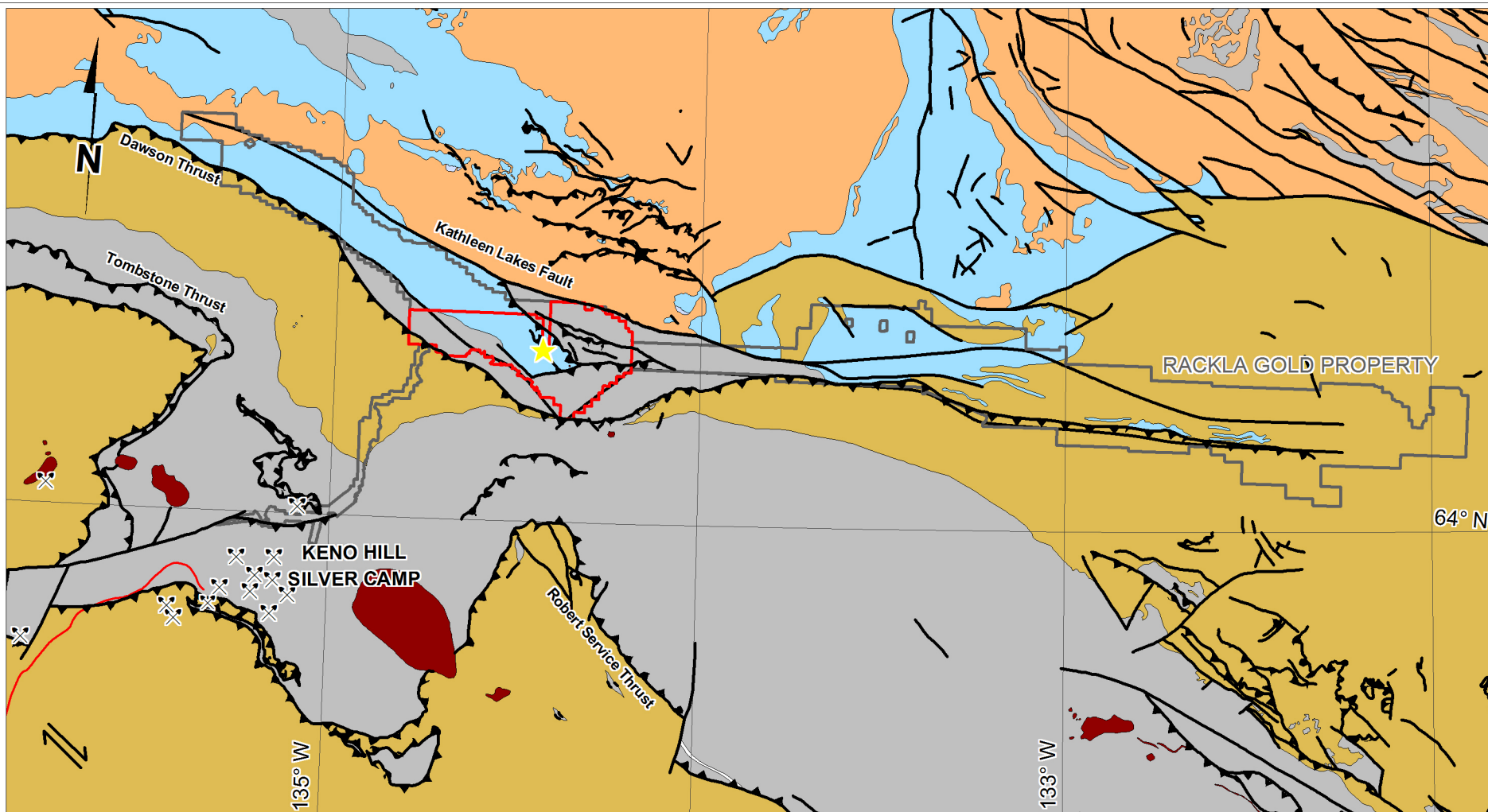
Figure 4 shows regional geology in central Yukon. It is a geological compilation that takes into account recent age dating and new unit correlations, which Charlie Roots prepared for the Yukon Geological Survey (Cathro, 2006).

The Tombstone, Dawson and Robert Service thrust faults plus a number of lesser thrust faults affect stratigraphy along the trend of the Rau claim block. All thrusts verge northeasterly and predate emplacement of the Tombstone Suite intrusions. The thrust panel that contains the Rau property approximately straddles the boundary between Selwyn Basin and Mackenzie Platform and includes units belonging to both tectonic elements.

Table I contains a brief summary of the main lithologies in the area of the Rau property.

Table I: Regional Lithological Units (after Roots *in* Cathro, 2006)

<u>Tectonic Element</u>	<u>Age (Ma)</u>	<u>Unit and Lithologies</u>
<u>Rocks of Ancestral North America</u>		
Mackenzie Platform	1700 - 1800	Gillespie Lake Group: orange-brown dolostone and sandstone.
Mackenzie Platform	540 - 390	Bouvette Formation: white and grey limestone with rare black shale.
Mackenzie Platform	540 - 420	Marmot Formation: dark green to brown mafic, vesicular and amygdaloidal volcanic flows.
Selwyn Basin	750? - 530	Hyland Group: brown quartz-mica schist, with rare limestone.
Selwyn Basin	530 - 500	Gull Lake Formation: brown and green shale, sandstone, conglomerate and volcanic tuff.
Selwyn Basin	500 - 480	Rabbitkettle Formation: dark silty limestone and limy mica-rich conglomerate.
Selwyn Basin	480 - 390	Road River Group: black shale, chert and limy siltstone.
<u>Rock formed before orogenic event</u>		
	390 - 350	Earn Group: black shale and chert with lesser pebble conglomerate, sandstone and grit.



 Tombstone Suite Intrusions	 Former mine
 Earn Group	 High angle fault
 Bouvette Formation	 Thrust fault
 Hyland Group	 Major transcurrent fault
 Proterozoic Sediments	 Road
	 Tiger Zone

Modified from: Gordey and Makepeace (2001)

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ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 4

REGIONAL GEOLOGY

RAU TREND - RACKLA GOLD PROJECT

0 50 km

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340	Keno Hill Quartzite: grey metamorphosed sandstone, minor black shale and phyllite.

Rocks formed during orogenic event

225	Galena Suite intrusions: brown and green diorite and gabbro.
200 - 250	Jones Lake and Mt. Christie Formations: sandstone, brown shale and dark limestone.

Rocks formed after orogenic event

90 - 94	Tombstone Suite intrusions: granite and granodiorite.
62 - 67	McQuesten Suite intrusions: granite with two types of mica.

Sediments younger than 3 Ma

0 - 3	Overburden: ice-deposited sand and gravel; river silt.

Property Geology

Limited geological mapping has been conducted over the Rau property. Most work has focused within the favourable Bouvette Formation stratigraphy in close proximity to the nearby Tiger Zone mineralization. The following descriptions are taken largely from previously documented government and historical mapping.

The Rau property lies within a northwest trending thrust package bound to the south by the Dawson Thrust and to the north by the Kathleen Lakes Fault. Stratigraphy within this package forms open folds that are aligned parallel to the thrusts and plunge gently to the southeast. Several high angle faults, which parallel the general structural trend, are inferred on the property and others could be present.

The **Bouvette Formation** is the most abundant inferred rock type shown on government based maps and is the principal focus of ATAC's exploration in the region. It can be divided into three main units which young to the northeast. In order from oldest to youngest:

- 1) **Cambrian and Ordovician** – massive pale grey dolostone, oncolitic dolostone, minor quartzite and sandy dolostone.
- 2) **Ordovician and/or Silurian** – thin to medium bedded grey and buff weathering silty limestone; massive white limestone, well bedded tan and grey limestone in the upper part of the unit.

- 3) **Silurian and Devonian** – thick bedded to massive light grey dolostone and limestone. Dark grey, fetid limestone containing “two hole” and “star” crinoids at the top of the unit.

The thickness of the Bouvette Formation on the property is estimated to be at least 1400 m. The primary focus of mapping has been largely limited to the area around Monument Hill and the Tiger Zone within the Ordovician-Silurian strata hosting carbonate gold replacement mineralization. Elsewhere the Bouvette Formation has not been mapped in detail and remains undifferentiated.

A narrow sliver of Middle Proterozoic **Fifteen Mile Group** dolostone lies beneath the Bouvette Formation, to the southwest. This unit is composed of chocolate to orange brown weathering, cryptalgal laminated, medium to thick bedded dolostone, overlain by rusty brown weathering, olive green siltstone and shale with lesser maroon black and buff shale.

The **Marmot Formation** consists of thin volcanic horizons that are interbedded with the Ordovician and/or Silurian Bouvette Formation. The horizons range from a few metres to about 20 m thick and comprise dark green to brown weathering mafic, vesicular volcanic flows, carbonate-cemented hyaloclastic breccias and volcanic-derived sandstone, grit and pebble and cobble conglomerate. Locally these horizons are magnetic. Although the Marmot Formation is volumetrically insignificant, it appears to have played an important role in localizing mineralization in the underlying carbonate by acting as an impermeable cap.

Devonian and Mississippian **Earn Group** is located in the southern half of the property and bounds the Bouvette Formation to the south, east and north. This unit is generally recessive weathering and is mostly composed of black shale and chert. To the south a high angle normal fault places Earn Group against Bouvette Formation, while a thrust fault marks the southeastern contact. To the north, the Earn Group conformably lies above Cambrian to Devonian shale and limestone, which has been placed against the Bouvette Formation by another high angle fault.

The central part of the property hosts numerous dykes and sills believed to represent a roughly 1000 m diameter granitic plug referred to as the “**Rackla Pluton**”. The plug is mostly composed of coarse grained, equigranular, biotite-and muscovite-bearing granite that is locally miarolitic (Panton 2008). The dykes and sills typically range between 30 cm and 7 m in thickness. They are often more fractionated than the plug and include garnet bearing aplite and coarse pegmatite that locally features beryl, amazonite (a green variety of feldspar) and one or more tourmaline minerals (rubellite, indigolite and schorl). The pegmatite bodies comprise mainly orthoclase and quartz but often exhibit abundant lithium-and vanadium-rich micas on their margins.

On surface, the Rackla Pluton is mostly covered by glacial till and only aplite and pegmatite sills and dykes are visible. The pluton is best delineated by its airborne magnetic signature. At the property scale the pluton is represented by a strong magnetic high. When the data is collapsed to the area immediately surrounding the pluton and a high-pass filter is applied, the signature shows a core magnetic low with a fringing magnetic high.

Analysis of several small bodies of granitic aplite and pegmatite have yielded $^{40}\text{Ar}/^{39}\text{Ar}$ muscovite ages of 62.3 ± 0.7 Ma, 62.4 ± 1.8 Ma and 59.1 ± 2.0 Ma (Kingston, 2009 and Kingston et al., 2010). Based on this data and the composition of the intrusion, Kingston concludes that the Rackla Pluton does not likely belong to the McQuesten Suite (65.2 ± 2.0 Ma).

Skarn and minor hornfels are developed locally within the Bouvette Formation proximal to the intrusions. Skarn grades from distal tremolite-rich (iron-deficient) facies, which are most abundant near the Flat Top Showing (about 1000 m northwest of the pluton), to proximal actinolite-diopside $\pm$ garnet $\pm$ pyrrhotite (iron-rich) facies, which are found closer to the pluton and on the margins of some dykes and sills. Massive skarns are mostly developed at contacts between limestone and volcanoclastic horizons. Hornfels is restricted to thin volcanoclastic layers within the Marmot Formation. It is normally rusty weathering and often contains disseminated to semi-massive pyrrhotite. Limestone and dolomite are locally altered to marble and often contain disseminated, light grey scapolite crystals. The scapolite is difficult to recognize on freshly broken surfaces but stands out on weathered surfaces as prismatic randomly orientated crystals.

MINERALIZATION

The Rau Trend contains a number of different mineral showings representing several different types of mineralization, The most notable being the Tiger Zone which is a sediment-hosted replacement-style and oxide gold deposit that has been the primary focus of ATAC's exploration efforts to date. Other mineralization types known to occur within the Rau Trend include zinc $\pm$ silver $\pm$ lead $\pm$ gold $\pm$ bismuth in limonite-rich veins; scheelite in tremolite skarns; pyrrhotite $\pm$ scheelite $\pm$ chalcopyrite in actinolite-diopside $\pm$ garnet skarns; wolframite $\pm$ tantalite in granite; gold bearing quartz-boulangerite veins; and iron $\pm$ zinc in gossans. Figure 2 shows the locations of the various showings discussed in this report.

The **Puma Showing** is located on an east-facing slope approximately 750 m northwest of the Cougar Showing. Oxidized cobbles were found scattered along a grassy hillside in a 250 m by 450 m area. Many of the samples collected from this showing are dense, rusty, dark purple siderite and goethite containing patches of boxwork limonite. Other samples consisted of limonite or altered carbonate, with occasional narrow quartz veins containing bismuthinite and galena. Bismuthinite crystals, up to 3 cm long, were observed in one sample.

Six goethite or goethite rich limonite samples collected in 2009 returned gold values greater than 1.0 g/t including a peak value of 18.45 g/t gold. Silver ranged between 0.2 g/t and 68.8 g/t with four samples exceeding 100 g/t to a maximum of 241 g/t silver.

The **Cheetah Showing** is located approximately 800 m west northwest of the Puma Showing. A 500 m long by 100 m wide float train extends up a south facing slope to a ridge which is cut by a northeast trending linear. The linear was traced for approximately 30 m to the northeast until becoming buried in limestone talus. A sample of a purple brown, goethite rich boxwork limonite collected in 2009, returned 3.06 g/t gold.

Drilling at the Cheetah Showing in 2010 intersected a steeply dipping oxidized zone corresponding to the surface linear. While all of these intersections yielded low-grade gold mineralization, the most significant intersection came from CH-10-04 and graded 1.29 g/t gold over 16.90 m.

The **Now Showing** is situated within a pronounced northwest trending gully located approximately 8 km west of Monument Hill. Little outcrop is exposed here but abundant float occurs along more than 400 m of the gully. Mineralization was first discovered in 1969 by Cominco. Lead, zinc and copper anomalies were identified but no clear relationship between them was determined (Johnston and Richardson, 1969).

In the late 1970's Prism conducted soil sampling, mapping, trenching and diamond drilling. Results of this soil sampling included values up to 7.4 g/t silver, 2.51 % lead and 790 ppm zinc within extensive northwest trending anomalies. A rock sample collected from a hand dug pit graded 74 g/t silver, 2.15% lead and 790 ppm zinc (Montgomery and Dewonck, 1977). Two samples of quartz rubble containing boulangerite were retrieved from a partially completed trench. The trench failed to reach bedrock due to permafrost but the samples returned 38.06 g/t gold, 343.55 g/t silver, 47.2% lead and 0.01% zinc and 39.43 g/t gold, 581.49 g/t silver, 23.26% lead and 0.06% zinc.

The most encouraging drill results obtained by Prism were from two holes that tested beneath this trench. The first of these holes intersected boulangerite and sphalerite in a narrow quartz vein. A narrow interval yielded 1.51 g/t gold, 54.5 g/t silver, 2.74% lead and 5.26% zinc over 0.5 m. The second hole, drilled at a steeper angle from the same pad, intersected the mineralized quartz vein that assayed 3.50 g/t gold, 60.3 g/t silver, 4.64% lead and 0.04% zinc over 1.1 m. The other four drill holes were either not sampled or contained no significant intersections.

In 1988, NDU Resources collected rock samples in the areas identified by Cominco and Prism as being anomalous for zinc. Samples were collected from two blocky quartz veins, one with blebby galena and the other with jamesonite and boulangerite. The sample containing blebby galena graded greater than 1% lead while the sample containing jamesonite boulangerite contained greater than 1% lead and greater than 100 g/t silver (Cathro, 1989).

Prospecting by ATAC in 2009 revealed that these anomalies appears to follow stratigraphy but are locally overprinted by one or more vein faults. The deep gully located near the Now Showing trends slightly oblique to bedding and corresponds to a main fault. Three of the six holes drilled by Prism are believed to have intersected this and are represented by gougy intervals surrounded by zones of intense veining. These intervals were not sampled. In 2010, three diamond drill holes attempted to test beneath and along strike of the historic trenches. All three of these holes were terminated before reaching their target depths due to poor ground conditions and inadequate equipment.

The **Kathy Showing** comprises a 40 m wide by 30 m long brick red gossanous ferricrete slab, located approximately 750 m southeast of the Rackla Pluton. The gossan is situated downhill of a thrust fault that places Earn Group shale, to the south, over Bouvette Formation carbonates to the north. It is believed that the gossan is formed by fluids traveling along this thrust fault. Soil

samples collected by Prism in 1978 returned silver values between 0.08 g/t and 25 g/t, lead values ranging from 32 to 90 ppm and zinc values ranging from 95 to 3900 ppm. Results for other elements were not reported.

DIAMOND DRILLING

General

Drilling was done between July 11 and August 24, 2011 and was contracted to Superior Diamond Drilling of Kelowna, BC. The work was completed with a helicopter portable B-15 diesel-powered drill using HQ3 equipment. A total of 2,113.20 m of diamond drilling were completed in 10 holes.

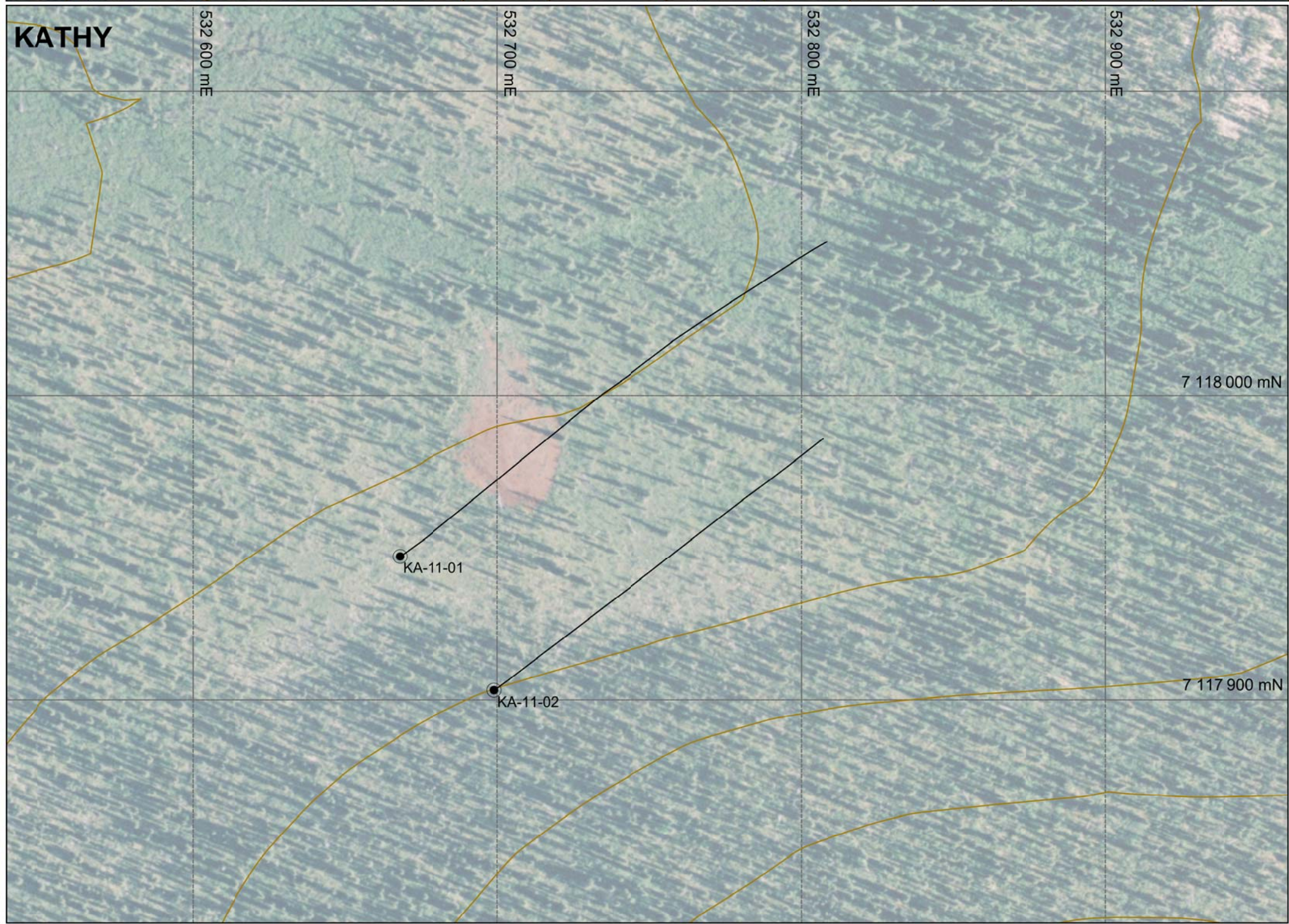
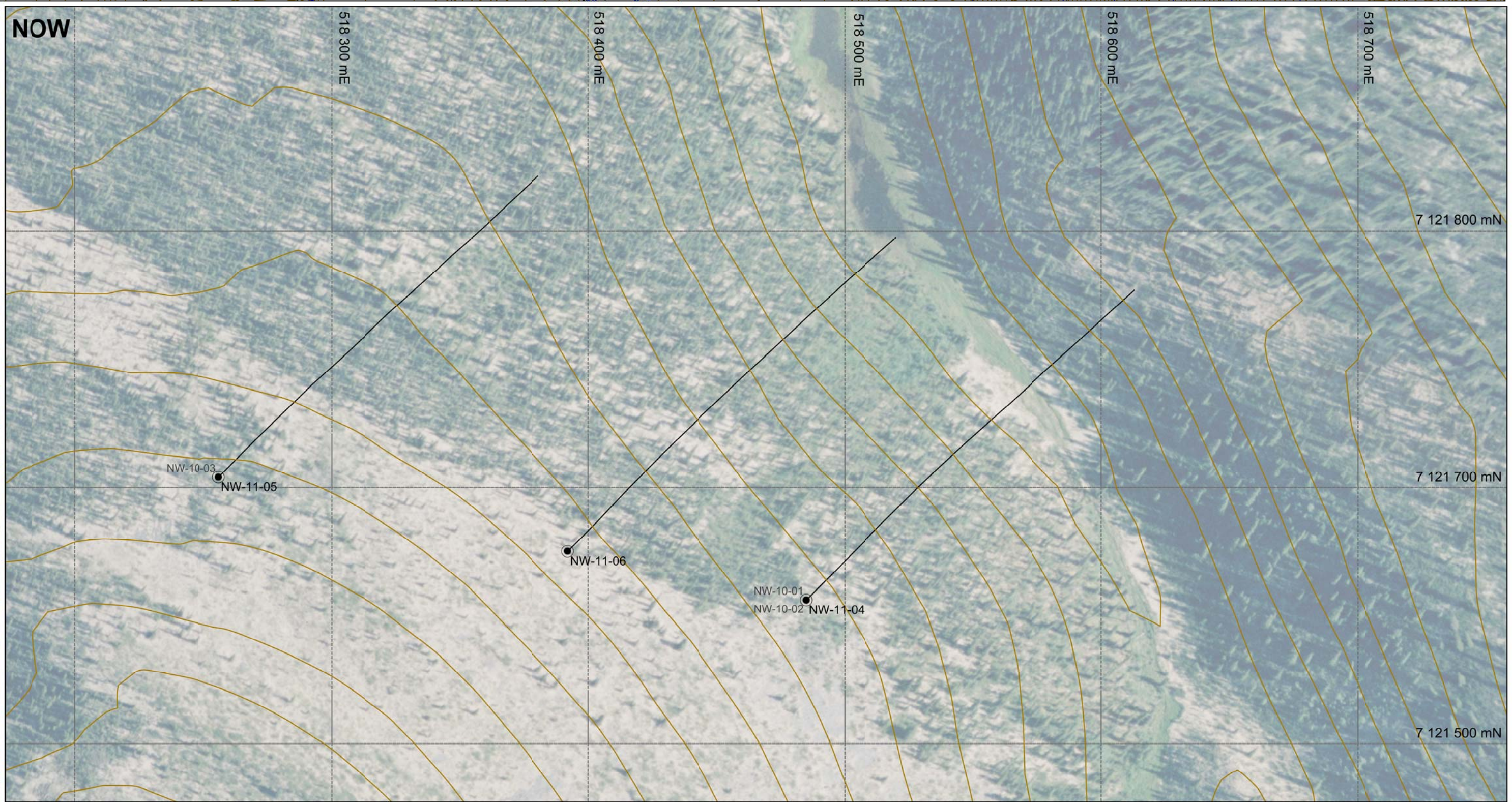
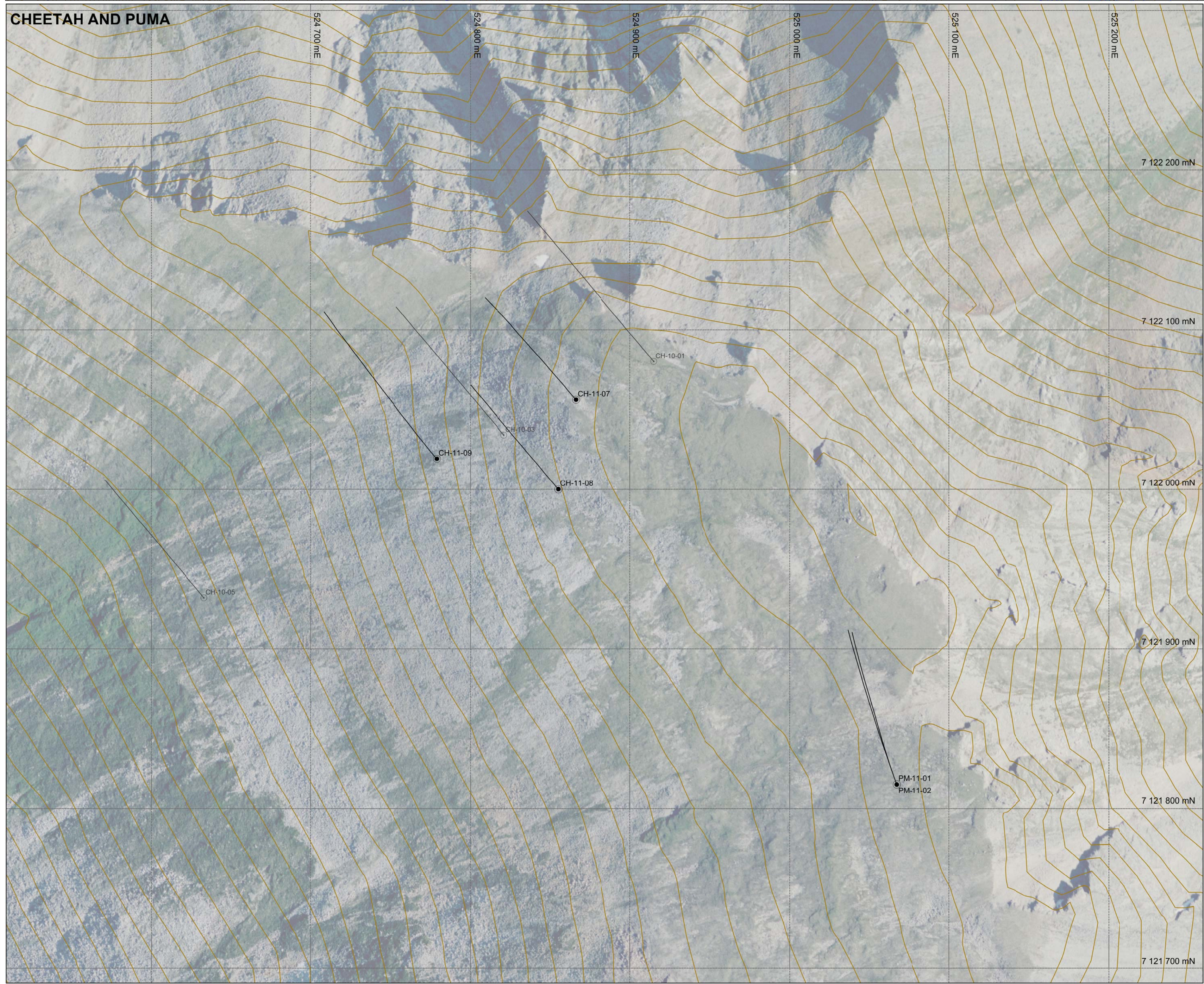
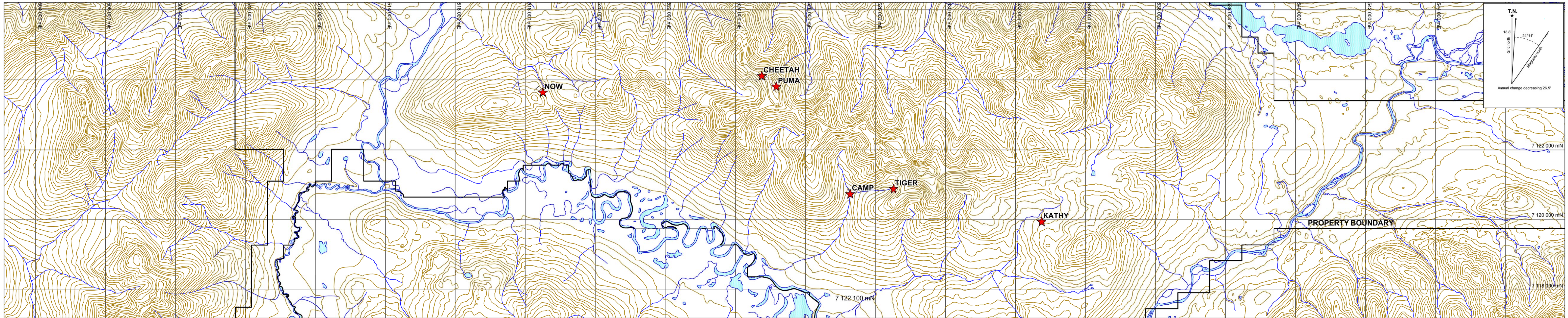
Three holes were completed at the Now Showing (Figure 5). These were designed to test beneath the trench completed by Prism in the 1970's and along strike to the west. At the Puma Showing, two holes targeted a fault that which is believed to be the source of rock samples yielding anomalous gold values (Figure 5). Three holes at the Cheetah Showing tested along strike and down dip from anomalous diamond drill intersections encountered during the 2010 program (Figure 5). Further to the east, at the Kathy Showing, two holes targeted the source of the gossan identified by Prism in 1977 (Figure 5). Individual drill sections are shown on Figures 6 to 14.

All drill sites were constructed by hand using rock, soil and timber found nearby. Collars are clearly marked with logs placed into the hole and wrapped with flagging. Drill data for the holes is listed in Table II.

Table II: Drill Hole Data

Showing	Hole	Easting	Northing	Elev. (m)	Azimuth	Angle	Depth (m)
Now	NW-11-04	518485	7121656	1104	045	-50	271.28
Now	NW-11-05	518256	7121704	1125	045	-50	252.38
Now	NW-11-06	518392	7121675	1143	045	-50	271.27
TOTAL:							794.92
Puma	PM-11-01	525067	7121815	1756	340	-50	155.45
Puma	PM-11-02	525067	7121815	1756	340	-60	185.93
TOTAL:							341.38
Cheetah	CH-11-07	524866	7122056	1736	320	-50	135.64
Cheetah	CH-11-08	524855	7122000	1696	320	-60	170.69
Cheetah	CH-11-09	524779	7122019	1695	320	-50	176.79
TOTAL:							483.11
Kathy	KA-11-01	532668	7117947	1105	054	-50	277.37
Kathy	KA-11-02	532699	7117903	1114	054	-50	216.41
TOTAL:							493.78

Core was transported by helicopter from the drill sites to a logging area on the property, where recovery was measured and geological and geotechnical logging was performed. Geologically and mineralogically favourable intervals from each hole were split with one-half bagged and sent for analysis and the other half returned to the core box. All of the core is stored on the property. Appendix II contains the geological and geotechnical logs.



ATAC RESOURCES LTD.

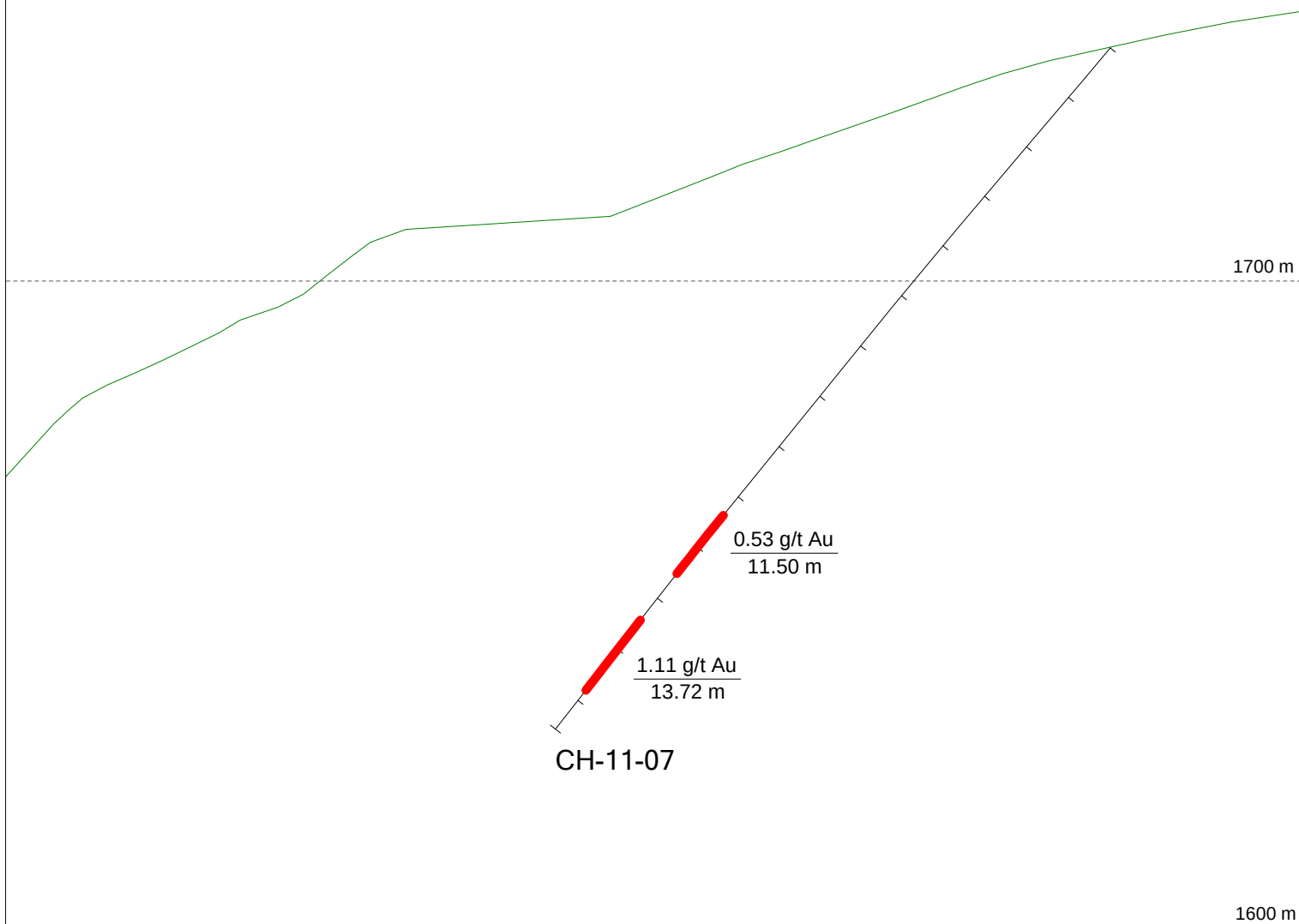
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CHEETAH - 10+050NE
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAUF_6-CHEETAH 10050NE.WOR

DATE: APRIL 2012



ATAC RESOURCES LTD.

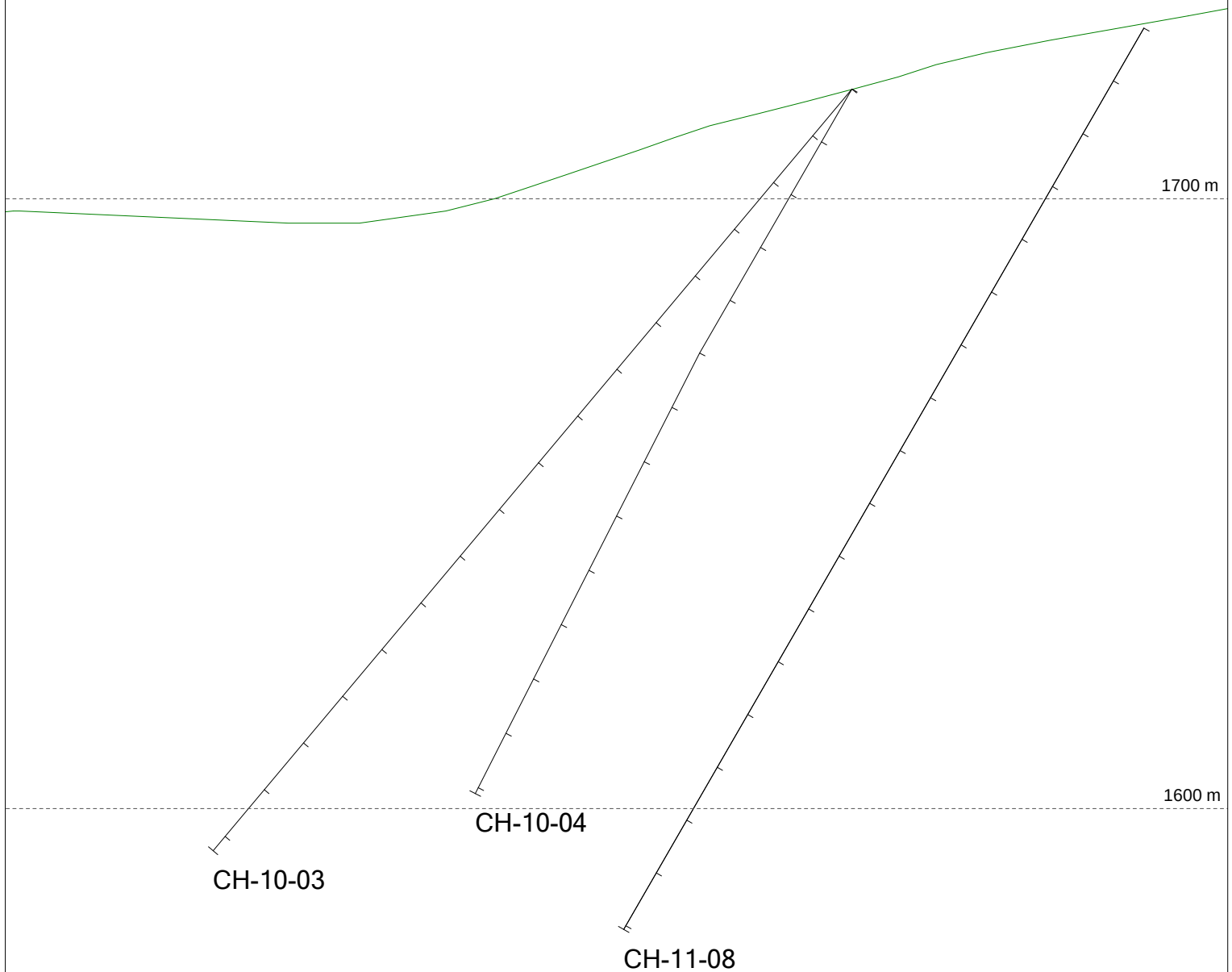
FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CHEETAH - 10+000NE
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAUF_7-CHEETAH 10000NE.WOR

DATE: APRIL 2012



ATAC RESOURCES LTD.

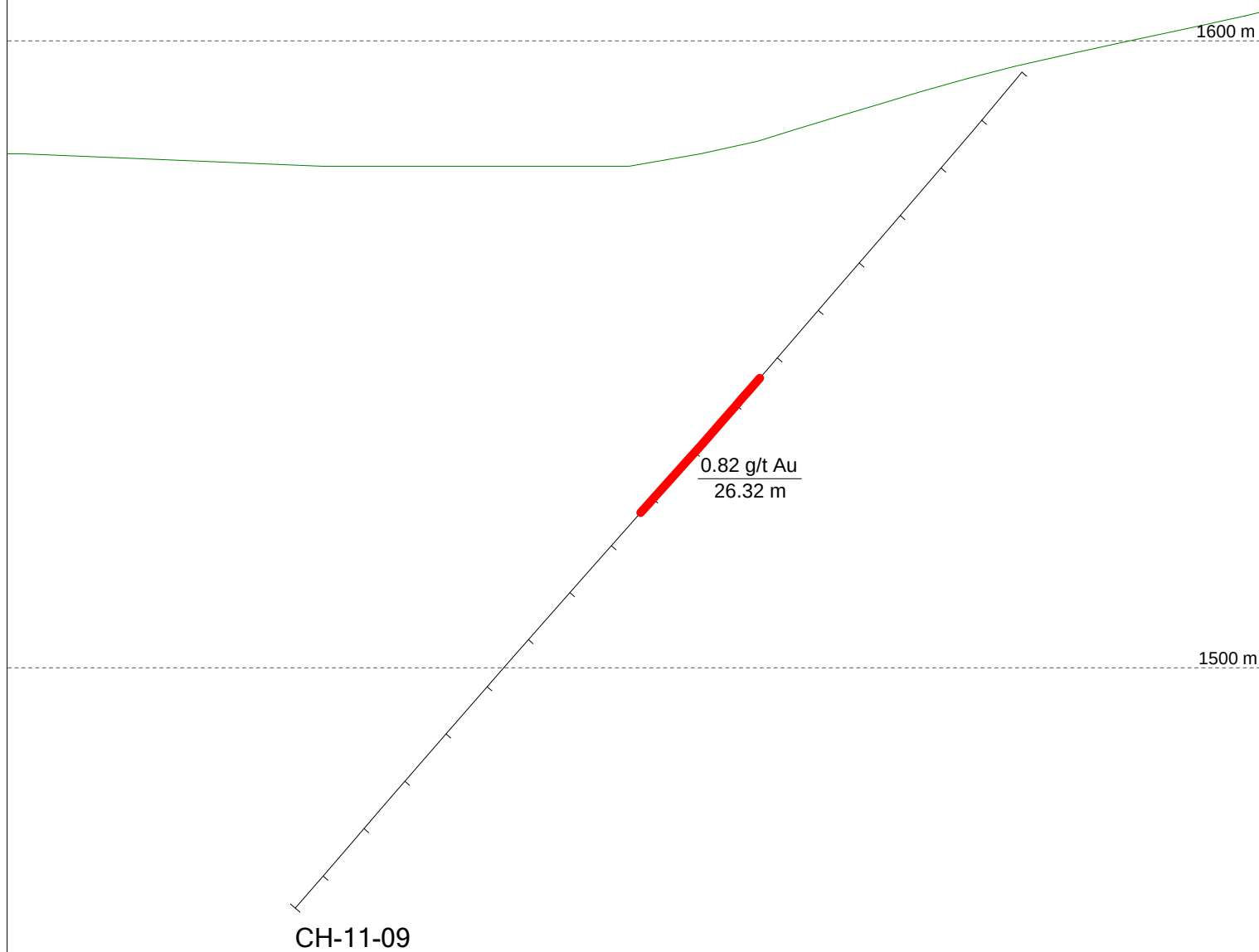
FIGURE 8
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CHEETAH - 09+950NE
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAU\F_8-CHEETAH 09950NE.WOR

DATE: APRIL 2012



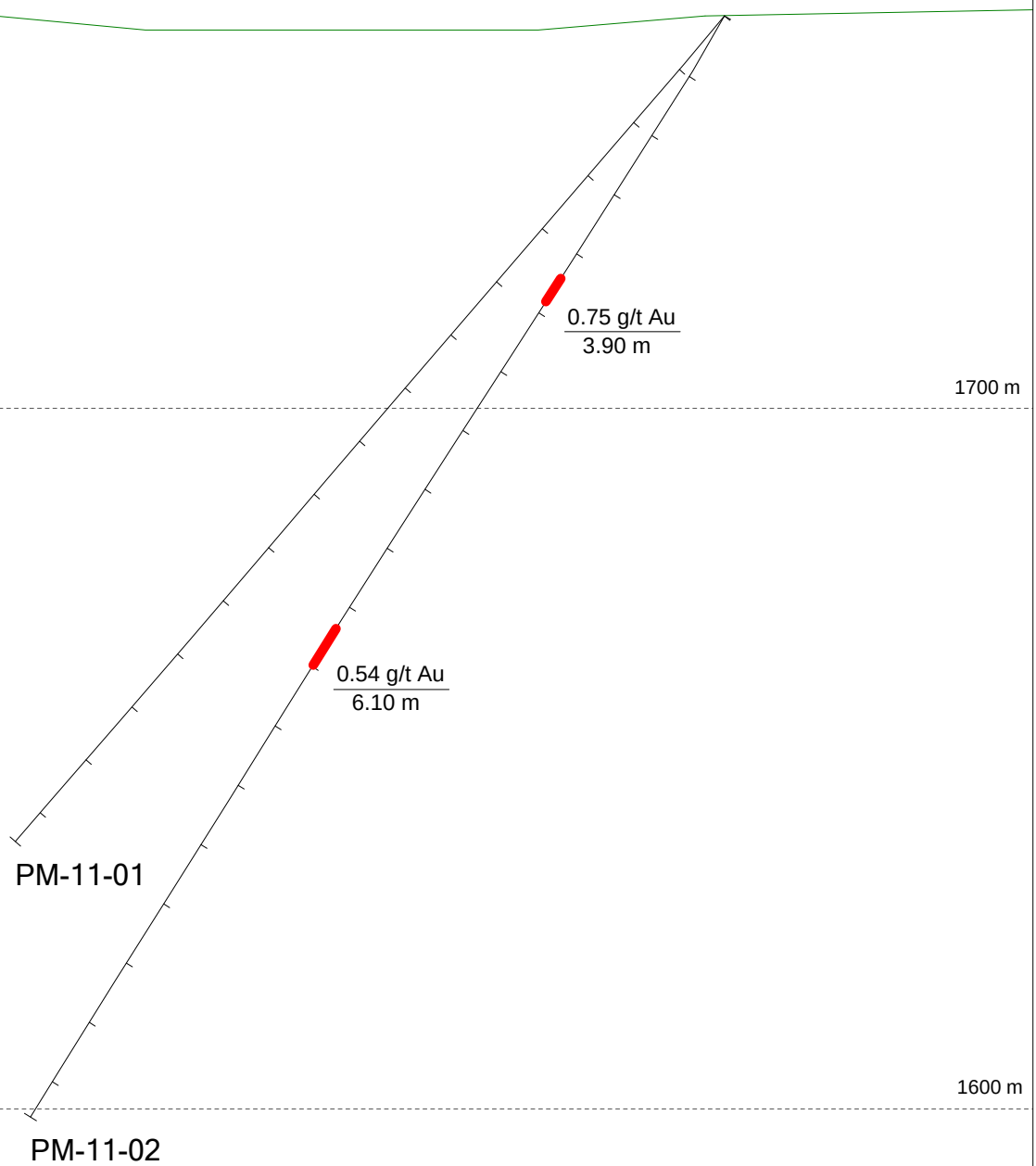
ATAC RESOURCES LTD.

FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PUMA - 10+000N
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAUF_9-PUMA.WOR

DATE: APRIL 2012



ATAC RESOURCES LTD.

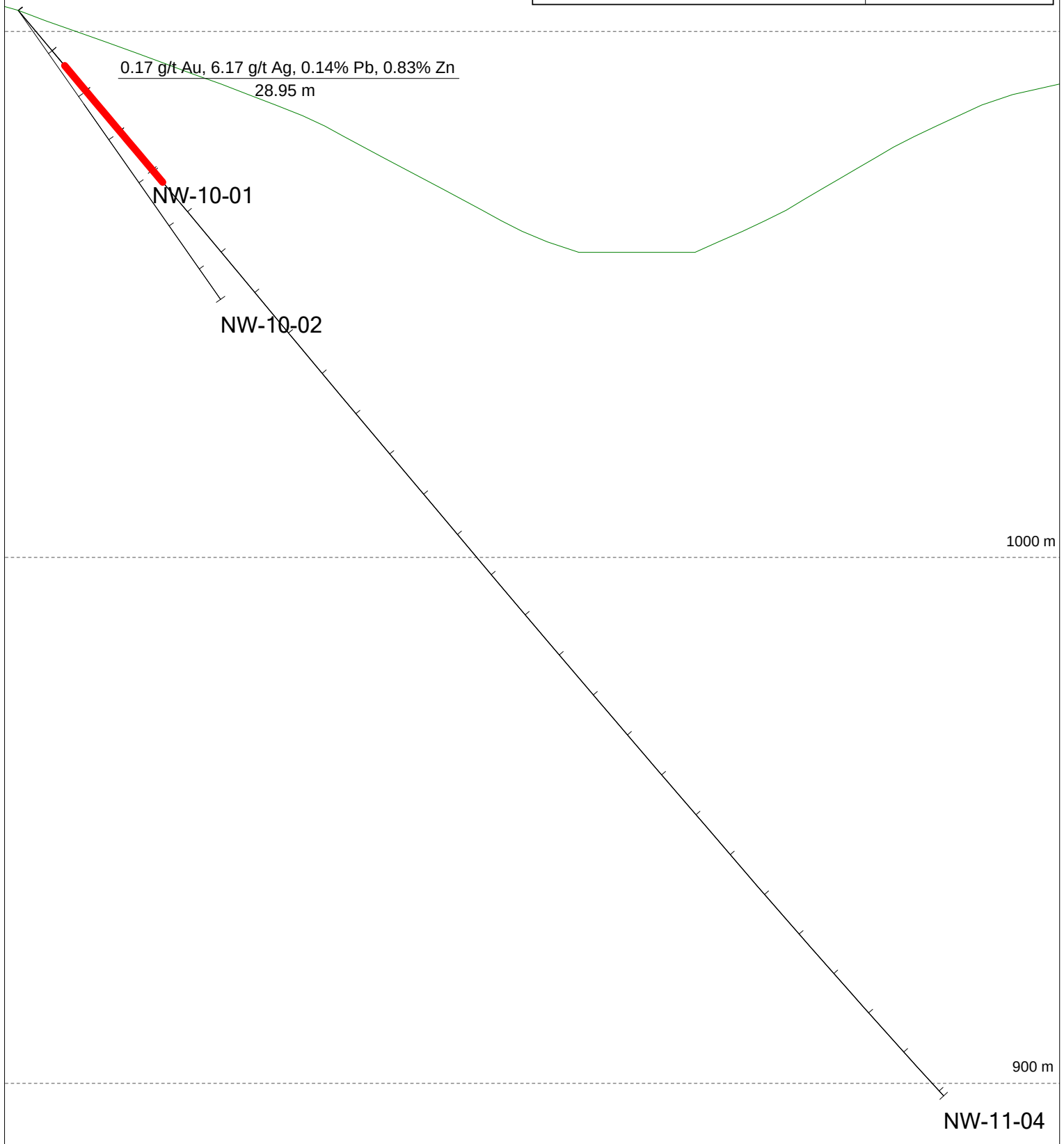
FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

NOW - 10+000NW
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAUF_10-NOW 10000NW.WOR

DATE: APRIL 2012



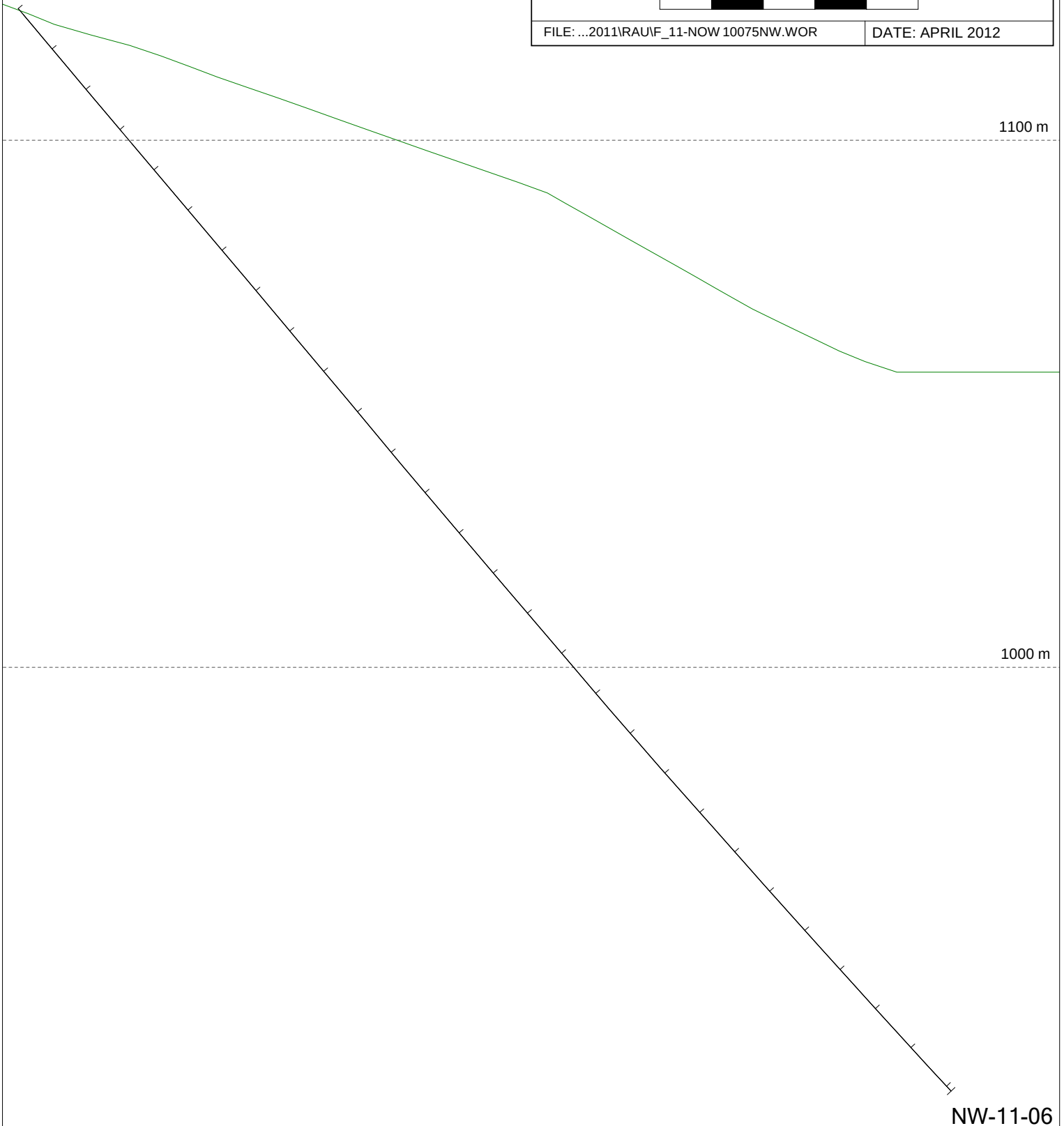
ATAC RESOURCES LTD.

FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
NOW - 10+075NW
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAUF_11-NOW 10075NW.WOR

DATE: APRIL 2012



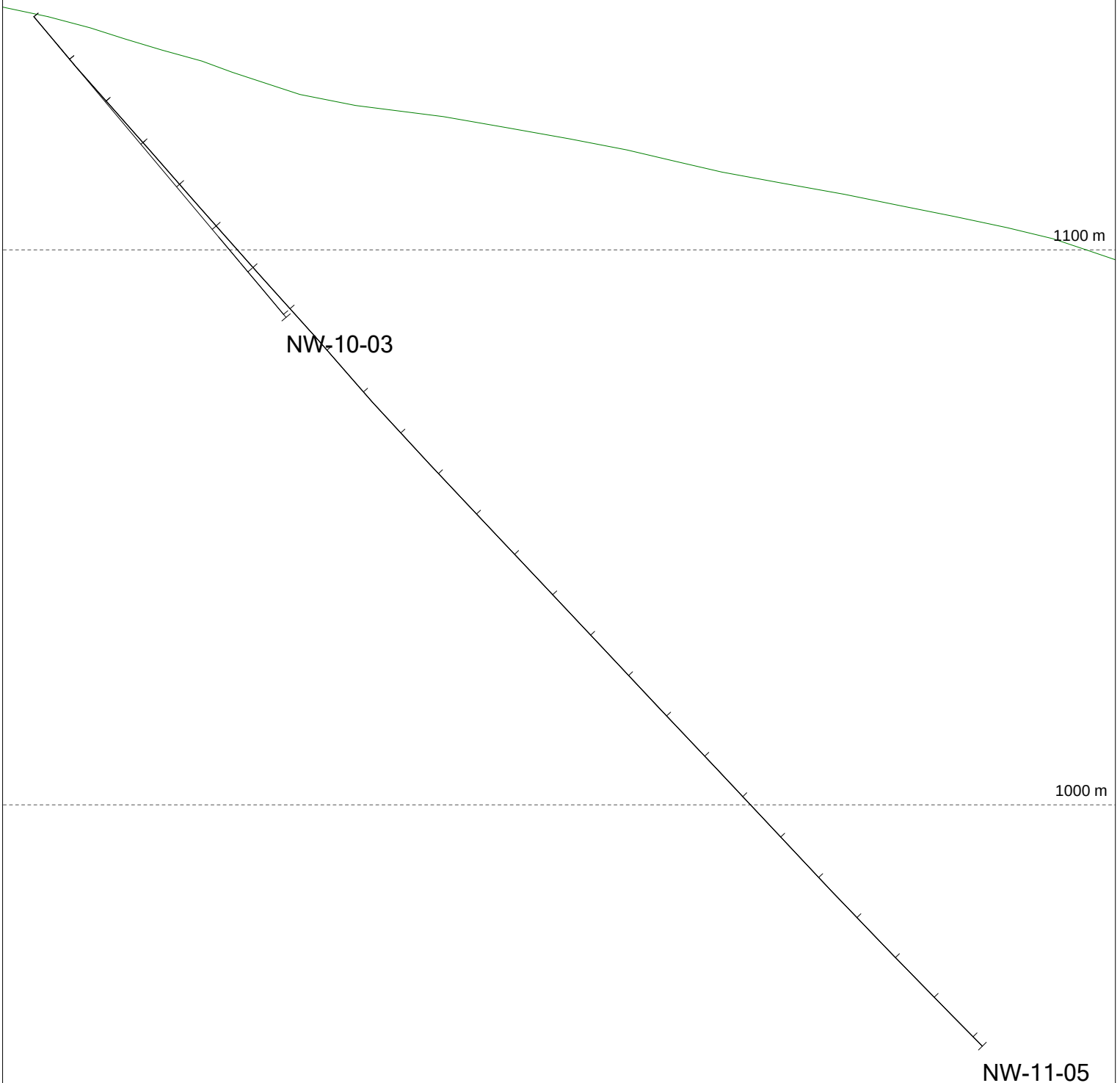
ATAC RESOURCES LTD.

FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
NOW - 10+200NW
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAUF_12-NOW 10200NW.WOR

DATE: APRIL 2012



ATAC RESOURCES LTD.

FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KATHY - 10+000N
RAU TREND - RACKLA GOLD PROJECT

0 50 m

FILE: ...2011\RAUF_13-KATHY 10000N.WOR

DATE: APRIL 2012

1000 m

900 m

KA-11-01

ATAC RESOURCES LTD.

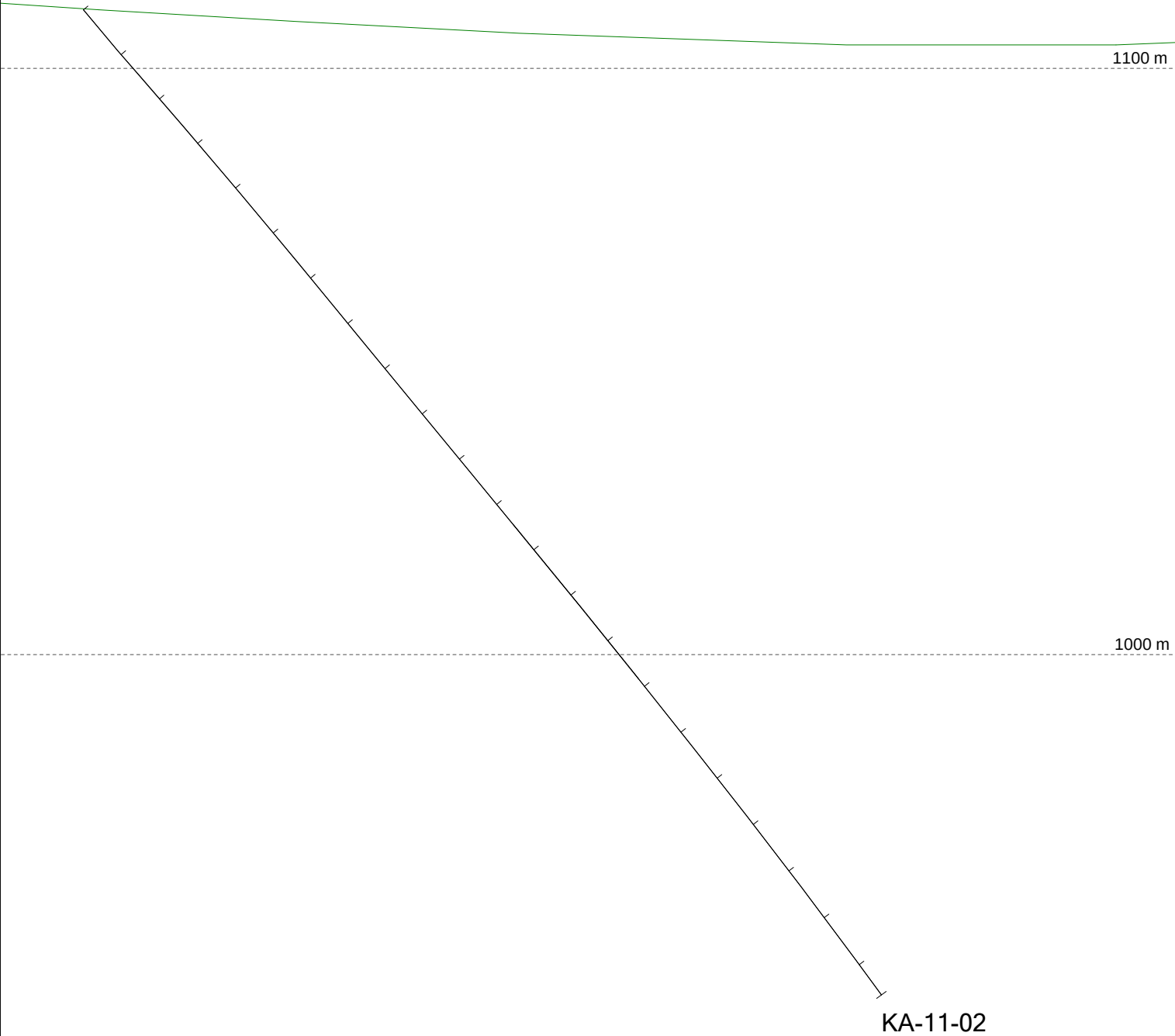
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KATHY - 09+950N
RAU TREND - RACKLA GOLD PROJECT



FILE: ...2011\RAUF_14-KATHY 09950N.WOR

DATE: APRIL 2012



Core samples were flown by helicopter to an airstrip on the property before being flown by fixed wing aircraft to Mayo and then transported to Whitehorse by truck, escorted by a representative of Archer, Cathro. The samples were delivered to the ALS Chemex preparation facilities in Whitehorse.

Core samples were dried and crushed to 70% minus 2 mm, before a 1.5 kg split was taken and pulverized to better than 85% minus 75 microns. To reduce cross contamination between samples during preparation, the equipment was washed twice with quartz silica sand. Splits of the pulverized fraction were digested in an acid solution and analyzed for 48 elements using technique ME-MS61, which combines inductively coupled plasma (ICP) with mass spectroscopy (MS) and atomic emission spectroscopy (AES). Samples were analyzed for gold by fire assay finished with atomic absorption spectroscopy (Au-AA26). Certificates of Analysis are found in Appendix III.

Results

Drilling at the Now Showing intersected shale overlying dolomite. Hole NW-11-04 was moderately oxidized to approximately 50 m. This intersection yielded weakly anomalous gold, silver, lead and zinc values. Weak to intensely chlorite altered diopside skarn intervals were seen towards the bottom of holes NW-11-05 and NW-11-06.

At the Puma Showing, drilling intersected creamy dolomite altered limestone. A strongly oxidized and healed fault comprising brecciated dolomite and limonite cuts through the stratigraphy. The fault is healed and competent with narrow muddy intervals.

Nearby at the Cheetah Showing, drilling intersected intensely oxidized intervals within dolomite. The oxidized intervals have an average width of 25 m and had a composition ranging from partially oxidized dolomite to limonite rich mud. Hole CH-11-08 did not reach the target depth due to bad ground conditions and was terminated in the oxide zone.

Drilling at the Kathy Showing intersected dolomitized limestone. Sporadic intervals of cream coloured dolomite with hairline fractures filled with black dolomite were located throughout both holes. Narrow skarn bands and quartz feldspar porphyry were scattered throughout both holes. No significant mineralization was encountered.

Significant intersections from the 2011 diamond drilling are listed in the following table.

Table III: Significant 2011 Drill Intersections

<u>Hole #</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Interval (m)</u>	<u>Au (g/t)</u>	<u>Ag (g/t)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>
NW-11-04	13.72	42.67	28.95	0.17	6.17	0.14	0.93
Incl.	28.06	32.62	4.56	0.74	20.34	0.73	0.33
NW-11-05	No significant results						
NW-11-06	No significant results						

PM-11-01	No significant results						
PM-11-02	44.20	48.10	3.90	0.75	-	-	-
And	103.63	109.73	6.10	0.54	-	-	-
CH-11-07	93.66	105.16	11.50	0.53	-	-	-
And	114.30	128.02	13.72	1.11	-	-	-
CH-11-08	No significant results						
CH-11-09	64.29	90.61	26.32	0.82	-	-	-
Incl.	64.29	76.20	11.91	1.10	-	-	-
KA-11-01	No significant results						
KA-11-02	No significant results						

QAQC

During the field season, samples were divided into batches, each containing 31 core samples, 2 standards, 2 blanks and 1 duplicate. A total of 31 standards and 32 blanks were inserted into the sample sequences. Blank samples each weighed 8 kg and comprise landscaping marble obtained from a garden centre in Whitehorse.

Four oxide standard samples (ROS-1, -2, -3 and -4) were obtained from Geostats Pty Ltd. Three standards (RSS-5, -6 and -7) were prepared from drill core collected from the Tiger Zone in 2009. Certificates for each of the standard samples are contained in Appendix IV, while Table IV summarizes the consensus and two standard deviation values for each of the standard samples used during the program.

Table IV: Standard Sample Consensus Values

Standard	Sample	Au (g/t)	Au- 2 δ
ROS-1	G306-1	0.41	0.06
ROS-2	G399-2	1.46	0.18
ROS-3	G999-4	3.02	0.42
ROS-4	G306-3	8.66	0.66
RSS-5	2010-A	0.437	0.048
RSS-6	2010-B	1.83	0.21
RSS-7	2010-C	3.83	0.33

Gold, silver, lead and zinc values from all of the blank samples were within acceptable range and within an acceptable “carry-over” limit given the values of the proceeding samples.

All but three of the standard sample values (batches 25, 30 and 31) are within the acceptable range for gold. Samples from these batches were reanalyzed by Au-AA26. Results from all of the reanalysis were consistent with the original values.

A total of 12 duplicate samples, prepared from quarter core, were collected and analyzed throughout the program. Variation in gold, silver, lead or zinc values between the initial and duplicate samples was minimal and within the expected range.

DISCUSSION AND CONCLUSIONS

The Rau Trend is host to a number of significant mineral showings. In 2011, diamond drilling tested four different showings representing three different styles of mineralization.

Drilling at the Now Showing targeted gold bearing veins exposed in historic trenching and oxidized dolomite beneath a shale layer. Where intersected, the dolomite contained weak gold values. The downdip extensions of the veins were not encountered. Skarn mineralization was intersected in the two western holes, which suggests that an unidentified intrusion may exist nearby. The closest mapped intrusion is the Rackla Pluton, located 13 km to the east. Additional mapping and reinterpretation of the Now Showing is recommended.

Drilling at the Cheetah and Puma zone both intersected gold hosted within north trending structures. At the Cheetah, drilling intersected gold bearing oxide contained within a north trending structure and is consistent with results obtained in 2010. The structure remains open at depth. Puma intersections yielded only weakly anomalous gold values; however the presence of gold bearing limonite float on surface suggests that better mineralized portions of the Puma structure exist. Detailed mapping and prospecting of the Puma structure in order to locate and target areas of higher potential should be completed prior to drilling.

At the Kathy Showing, drilling did not intersect any significant mineralization nor has it determined the source of the gossan. Both holes intersected a thick sequence of dolomite that is similar to the host lithology of the nearby Ocelot Showing. The Kathy gossan is located entirely within a carbonate sequence and has a silver, lead and zinc geochemical signature. It is believed that mineralization is structurally controlled and of a similar nature to the Ocelot Showing. Ground geophysical surveys are recommended prior to drilling in order to better target any structure or other feature hidden under the extensive overburden.

Respectfully submitted

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Matthew R. Dumala, P.Eng.

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APPENDIX I

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Matthew R. Dumala, geological engineer, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Burnaby, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 2002 with a B.A.Sc in Geological Engineering, Option I, mineral and fuel exploration.
2. I registered as a Professional Engineer in the Province of British Columbia on November 14, 2008 (License Number 32783).
3. From 2003 to present, I have been actively engaged in mineral exploration in the Yukon Territory.
4. I have personally participated in the fieldwork reported herein.

Matthew R. Dumala, P.Eng.

96228

Qm01414

Statement of Expenditures
GF 3-4 Q 1-26, 653 R claims
Rau 56, 70-86 & 99 and S 43-92 Mineral Claims
Group J
March 19, 2012



Contract Diamond Drilling

Superior Diamond Drilling Inc.

\$327,629.87

APPENDIX II

GEOLOGICAL AND GEOTECHNICAL LOGS

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		524866	7122056	1736	135.64

ZONE: CHEETAH

SECTION: _____

HOLE: CH-11-07

CLAIM: YC68900

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 3.05 (m) out

Drilling dates: August 8 to 9, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	320	-50.0	compass	89.92	320	-51.0	Ranger
44.20	319	-50.3	Ranger	105.16	317	-51.7	Ranger
59.44	318	-51.0	Ranger	120.40	315	-52.1	Ranger
74.68	319	-50.9	Ranger	135.50	317	-51.9	Ranger

TARGET: Cheetah Fault

[illegible]

SAMPLES
Numbers: I383540 - I383574
Total: <u>35</u>
Batch: <u>28, 29</u>
Certificate: WH11169077, WH11169076

COMMENTS	

GEOLOGY LOG

HOLE: CH-11-07

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
0.00	1.52	1.52				OVB																				No recovery	
1.52	2.48	1.04				OVB																				Overburden, dark organic mats and roots to assorted DOL ALT LST rubble.	
																										Light olive grey, FG-MG, Bx, weakly WEA, intensely DOL ALT LST with trace SIL ALT. Bx is weak sBx, featuring creamy white DOL VLS scattered throughout. Darker grey original LST is strongly overprinted by a lighter, olive-grey green to pinkish DOL. SIL ALT is present almost entirely as a single black Qz vein containing white DOL sBx texture (suggesting that sBx was a later occurrence). Core is primarily competent, breaking most along more strongly WEA/oxidized regions. WEA is present as olive coloration on core as well as patches of oxidation within the interval.	
2.48	14.10	11.62				DOL		Bx					I					WEA W SIL t						Ca t Qz t			
									Bx	50		7														Weak black to dark red brown DOL cBx preferentially orientated at 50 tca. 5-15 per metre.	
			6.13	6.74	0.61				VN	45	90	1													x	Black Qz VN orientated at 45 tca and 90 tfa to the DOL cBx. 1 in total and 10 cm thick.	
			13.86						VN	60		1													x	Ca VN containing vugs. Within the vugs Ca is intensely oxidized to brown/orange, containing trace amounts of Qz. 60 tca, and tfa is indeterminate. VN is greater than 13 cm thick, however actual thickness is indeterminate because it is intensely oxidized and broken up.	
																										Medium grey, FG-MG,Bx, DOL ALT LST with intermittent intervals of red orange to orange brown clay oxide. White DOL ALT VLS are scattered throughout. Bx is weak sBx and features white DOL replacing grey LST. Core is competent to blocky in areas of DOL ALT LST, and muddy to rubbly on oxides. WEA is present as weak orange brown coloration on competent pieces of core and appears on fracture faces. Strong WEA is visible on muddy core. Few SIL ALT are present in core rubble. Oxide contacts at 60-90 tca generally.	
14.10	135.64	121.54				DOL		Bx	CN	75								WEA W SIL t									

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
			14.10	14.30					VLS	42		10														Mass of white DOL VLS forming a sBx texture. Vugs are present within the VLS containing FG DOL crystals. VLS are orientated at 40-45 tca, and are up to 1 cm thick. 6-15 VLS in total.	
			32.00	34.70					VLS	50		tr										Ca	t				Grey olive LST ALT DOL containing dark brown Ca VLS. VLS are orientated at 50 tca and are up to 0.5 cm thick.
			46.19	46.67					VLS	50		tr										Ca	tr				Ca VLS containing vugs filled with FG Ca crystals. Weak WEA is visible as light orange brown coloration of VLS. VLS are orientated at 50 tca, and are up to 3 mm thick.
			53.22	53.34																		Qz	l				FG QZ present within rubble.
			53.34	56.39		DOL							w														Muddy to competent core exhibits red/orange, orange/brown to black (siderite) coloring. Region is composed of weakly DOL ALT LST.
			56.39	60.89		DOL		Bx																			As general description for grey DOL ALT LST
			60.00	60.89		DOL		tBx																			tBx texture featuring dark, micritic LST matrix containing up to 17 cm large clasts of lighter DOL ALT LST. Matrix supported.
			60.89	64.45		DOL							w														Region of competent to muddy, moderately-strongly oxidized, weakly DOL ALT LST. Oxidation is visible as muddy to rubbly orange brown core.
			64.45	87.17																							As general description for grey DOL ALT LST
			74.92	79.52		DOL		sBx																			Orange-brown oxidized sBx region as in genera description. Core is oxidized and fracturing along white DOL BX.
			79.52	80.90					VLS	40		4															White DOL VLS, 40 tca, 4 in total, and less than 1 mm thick.
			80.90						VLS	60		8															White DOL VLS, 60 tca, less than 4 mm thick and 8 in total.
			87.17	89.94														WEA	w								Slightly oxidized section of competent to rubbly core. Oxidation is visible as light orange to brown muddy core.

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
			89.94	93.68		DOL												WEA w								Slightly WEA grey DOL ALT LST as in general description.	
			93.68	94.49														WEA I								Extremely oxidized light brown muddy region	
			94.49	95.31		DOL			VL	30								WEA m						Ca	t	Moderately oxidized light grey to black, DOL ALT LST as in general description. A dark chocolate brown Ca VL orientated at 30 tca and 4 mm thick is present at 94.82 m.	
			95.31	96.68		DOL							w					WEA I								Extremely oxidized, muddy to rubbly orange brown to chestnut brown region. Weakly DOL ALT LST.	
			96.68	98.26		DOL																		Ca	s	Region features an intense sBx containing light orange green/grey DOL ALT LST surrounded by a lighter grey Ca/Qz cement.	
			98.26	99.30																				Qz	s	Orange brown, rubbly, intensely oxidized section featuring up to 2 cm in diameter sub-angular Qz pebbles.	
			99.30	100.58														WEA I								Orange brown, rubbly to muddy to competent, intensely oxidized section.	
			100.58	101.36														WEA I								Intensely oxidized red-brown mud	
			101.36	102.29		DOL												WEA W								Weakly oxidized competent DOL ALT LST.	
			102.29	103.50														WEA W								Intensely oxidized red-brown mud	
			103.50	103.63		DOL												WEA M								Moderately oxidized, competent DOL ALT LST	
			103.63	104.11														WEA I								Intensely oxidized	
			104.11	104.53		DOL												WEA M								Moderately oxidized, competent orange brown DOL ALT LST. Reacts with dilute HCL.	
			104.53	105.16														WEA I								Intensely oxidized, red brown muc	
			105.16	106.68		DOL												WEA M								Moderately oxidized, competent to muddy DOL ALT LST with honey brown mud	
			106.68	108.00														WEA I								Intensely oxidized, red brown mud	
			108.00	108.76		DOL												WEA M								Moderately oxidized, competent DOL ALT LS1	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
			108.76	109.15														WEA I									Intensely oxidized, honey brown mud that fizzes with application of dilute HCL.
																											Weakly to moderatly oxidized, honey brown DOL ALT LST. Region features trace dark brown calcite VLS orientated at 30 tca, and are 1 mm thick.
			109.15	115.35		DOL			VL	30														Ca	ms		Strongly oxidized, orange to red brown mud with chunks of DOL ALT LST scattered throughout.
			115.35	116.02		DOL												WEA s									Weakly to moderatly oxidized in honey-brown DOL ALT LST.
			116.02	118.83		DOL												WEA w									Intensely oxidized, orange to purple brown mud
			118.83	122.05														WEA i									Weakly oxidized honey brown DOL ALT LST spiderwebbed by dark brown calcite/siderite cBx. Core is competent.
			122.05	123.09		DOL		Bx										WEA w						Ca	f		Moderatly orange-brown oxidized, intensely darl brown calcite/siderite cBx DOL ALT LST. Oxidation has worn away LST such that only dark brown siderite remains as a web of <1mm thick brittle disks.
			123.09	123.44		DOL		Bx										WEA m						Si	t		Strongly oxidized red brown sand with grey DOL ALT LST granules intermixed. Dark brown red siderite/calc disks as above mark LCN.
			123.44	123.85		DOL												WEA s						Si	t		Fairly honey brown oxidized DOL ALT LST spiderwebbed by dark brown siderite/calcite. Core is blocky.
			123.85	124.65		DOL												WEA f						Si	f		As 123.44-123.85.
			124.65	124.97					CN															Ca	f		Strongly to intensely honey-brown to red brown oxidized DOL ALT LST to mud. Thick dark brown calcite/siderite VLS run thoughout. 6 mm thick dark brown siderite/calcite VL at 20 tca. 10 cm thick dark brown siderite/calcite patch within oxidized mud 70 tca.
			124.97	125.91		DOL			VLS	20								WEA s						Si	ms		Brown-grey to dark blue-grey, FG-MG, cBx, intensely DOL ALT LST with weak honey brown oxidation. EOH, targeted zone passed.
			125.21	125.40					VN	70														Ca	ms		
			125.91	135.64		DOL		Bx					i					WEA w									

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION				MINERALS						Photo	DETAILED DESCRIPTION			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other			Other		
																	Type	Intensity				Type			Intensity	Type	Intensity
			129.70	130.66													WEA f									Region of blocky core and fair oxidator	
135.64						EOH																					

GEOTECHNICAL LOG

HOLE: CH-11-07

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
1.52	3.05	1.53	1.40	92	0.11	7	vs	fr		
3.05	4.57	1.52	1.19	78	0.55	36	vs	fr		
4.57	6.10	1.53	1.31	86	0.74	48	vs	fr		
6.10	7.62	1.52	1.41	93	1.02	67	vs	fr		
7.62	9.14	1.52	1.44	95	1.21	80	vs	fr		
9.14	10.67	1.53	1.39	91	1.13	74	vs	fr		
10.67	12.19	1.52	1.38	91	0.99	65	vs	fr		
12.19	13.72	1.53	1.31	86	0.58	38	s	sw	5y 5/2	
13.72	15.29	1.57	1.44	92	1.09	69	vs	sw	5y 5/2	
15.29	16.76	1.47	1.41	96	0.86	59	vs	fr		
16.76	18.29	1.53	1.29	84	0.99	65	vs	fr		
18.29	19.81	1.52	1.24	82	0.54	36	vs	fr		
19.81	21.34	1.53	1.34	88	0.97	63	vs	fr		
21.34	22.86	1.52	1.49	98	1.14	75	vs	fr		
22.86	24.38	1.52	1.41	93	0.80	53	vs	fr		
24.38	25.91	1.53	1.47	96	1.25	82	vs	fr		
25.91	27.43	1.52	1.32	87	0.87	57	vs	fr		
27.43	28.96	1.53	1.35	88	0.91	59	vs	fr		
28.96	30.48	1.52	1.36	89	0.70	46	vs	fr		
30.48	32.00	1.52	1.14	75	0.62	41	vs	fr		
32.00	33.53	1.53	1.15	75	0.39	25	vs	sw	5y 5/2	
33.53	35.05	1.52	1.26	83	0.44	29	vs	sw	5y 5/2	
35.05	36.58	1.53	1.33	87	0.79	52	vs	fr		
36.58	38.10	1.52	1.28	84	0.67	44	vs	fr		
38.10	39.62	1.52	1.51	99	1.00	66	vs	fr		
39.62	41.15	1.53	1.49	97	1.28	84	vs	fr		
41.15	42.67	1.52	1.20	79	0.63	41	vs	fr		
42.67	44.20	1.53	1.51	99	1.39	91	vs	fr		
44.20	45.72	1.52	1.20	79	0.33	22	vs	fr		
45.72	47.24	1.52	1.19	78	0.78	51	vs	sw	5y 5/2	
47.24	48.77	1.53	1.39	91	1.18	77	vs	sw	5y 5/2	
48.77	50.29	1.52	1.48	97	0.89	59	vs	fr		
50.29	51.82	1.53	1.36	89	1.23	80	vs	fr		
51.82	53.34	1.52	1.28	84	0.72	47	vs	fr		
53.34	54.86	1.52	1.29	85	0.30	20	vw	hw	7.5yr 4/6	
54.86	56.39	1.53	1.30	85	0.45	29	s	sw	10yr 6/4	
56.39	57.91	1.52	1.24	82	0.78	51	vs	sw	10yr 6/4	
57.91	59.44	1.53	1.42	93	1.09	71	vs	sw	10yr 6/4	
59.44	60.96	1.52	1.20	79	0.60	39	vs	sw	10yr 6/4	
60.96	62.48	1.52	1.15	76	0.64	42	s	sw	7.5yr 6/4	
62.48	64.00	1.52	1.18	78	0.45	30	w	hw	7.5yr 6/4	
64.00	65.53	1.53	1.30	85	0.90	59	vs	fr		
65.53	67.06	1.53	1.45	95	1.28	84	vs	fr		
67.06	68.58	1.52	1.49	98	1.33	88	vs	fr		
68.58	70.10	1.52	1.36	89	1.31	86	vs	fr		
70.10	71.63	1.53	1.39	91	1.32	86	vs	fr		
71.63	73.15	1.52	1.52	100	1.52	100	vs	fr		
73.15	74.68	1.53	1.24	81	0.95	62	vs	fr		
74.68	76.20	1.52	1.35	89	1.17	77	vs	sw	10yr 6/4	
76.20	77.72	1.52	1.33	88	0.88	58	vs	fr		
77.72	79.25	1.53	1.26	82	0.43	28	vs	sw	10yr 6/4	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
79.25	80.77	1.52	1.50	99	0.83	55	vs	fr		
80.77	82.30	1.53	1.20	78	0.90	59	vs	fr		
82.30	83.82	1.52	1.39	91	1.08	71	vs	fr		
83.82	85.34	1.52	1.40	92	1.27	84	vs	fr		
85.34	86.89	1.55	1.40	90	1.15	74	vs	fr		
86.89	88.39	1.50	0.97	65	0.23	15	s	sw	7.5yr 5/4	
88.39	89.92	1.53	1.11	73	0.27	18	s	sw	7.5yr 5/4	
89.92	91.44	1.52	1.34	88	0.89	59	vs	fr		
91.44	92.96	1.52	1.30	86	1.00	66	vs	fr		
92.96	94.49	1.53	1.10	72	0.42	27	ew	hw	10yr 5/4	
94.49	96.01	1.52	1.25	82	0.00	0	ms	hw	7.5yr 5/6	
96.01	97.54	1.53	1.41	92	0.88	58	ms	hw	7.5yr 5/6	
97.54	99.06	1.52	1.12	74	0.45	30	ms	hw	10yr 5/6	
99.06	100.58	1.52	1.30	86	0.00	0	vw	sw	5YR 4/6	
100.58	102.11	1.53	1.27	83	0.26	17	vw	sw	5YR 4/6	
102.11	103.63	1.52	1.40	92	0.15	10	vw	ew	5YR 4/6	
103.63	105.16	1.53	1.41	92	0.14	9	vw	ew	7.5YR 5/6	
105.16	106.68	1.52	1.40	92	0.49	32	ms	sw	10YR 5/6	
106.68	108.20	1.52	1.36	89	0.00	0	vw	ew	5YR 4/6	
108.20	109.73	1.53	1.45	95	0.48	31	ms	sw	10YR 5/6	
109.73	111.25	1.52	1.49	98	1.24	82	ms	sw	10YR 5/6	
111.25	112.78	1.53	1.52	99	1.52	99	ms	sw	10YR 5/6	
112.78	114.30	1.52	1.50	99	0.50	33	ms	sw	10YR 5/6	
114.30	115.82	1.52	1.40	92	0.00	0	vw	sw	5YR 4/6	
115.82	117.35	1.53	1.35	88	0.45	29	vw	sw	5YR 4/6	
117.35	118.87	1.52	1.31	86	0.40	26	vw	sw	5YR 4/6	
118.87	120.40	1.53	1.45	95	0.00	0	vw	ew	5YR 4/6	
120.40	121.92	1.52	1.32	87	0.00	0	w	hw	5YR 4/4	
121.92	123.44	1.52	1.48	97	1.00	66	s	sw	7.5YR 5/6	
123.44	124.97	1.53	1.33	87	0.15	10	ms	sw	7.5YR 5/6	
124.97	126.49	1.52	1.42	93	0.55	36	w	sw	7.5YR 5/6	
126.49	128.02	1.53	1.52	99	1.52	99	vs	sw	7.5YR 5/6	
128.02	129.54	1.52	1.52	100	1.52	100	vs	sw	7.5YR 5/6	
129.54	131.06	1.52	1.30	86	0.33	22	vs	sw	7.5YR 5/6	
131.06	132.59	1.53	1.52	99	1.49	97	vs	fr		
132.59	134.11	1.52	1.49	98	1.08	71	vs	fr		
134.11	135.64	1.53	1.20	78	1.00	65	vs	fr		
E.O.H.										

SAMPLE LOG

HOLE: CH-11-07

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Zn (ppm)	Comments
7.62	9.14	1.52	1.44		I383540	28	<0.01	0.06	7	19	
9.14	12.19	3.05	2.77		I383541	28	0.01	0.09	12	39	
12.19	14.05	1.86			I383542	28	0.01	0.10	32	39	
32.15	34.75	2.60			I383543	28	<0.01	0.49	12	339	
53.34	54.83	1.49	1.29		I383544	28	0.31	39.70	563	5390	
					I383545	28	<0.01	0.05	5	23	BLANK
					I383546	28	1.35	0.61	78	146	STANDARD ROS-2
54.83	56.75	1.92	1.78		I383547	28	0.06	5.32	35	651	
56.75	59.44	2.69	2.41		I383548	28	0.01	0.72	9	137	
59.44	60.96	1.52	1.20		I383549	28	0.01	0.88	31	181	
					I383550	28	0.01	0.93	43	327	DUPLICATE
60.96	63.50	2.54	1.93		I383551	28	0.11	4.43	433	1360	
88.39	91.44	3.05	2.45		I383552	28	0.02	0.37	25	125	
91.44	93.66	2.22	2.01		I383553	28	0.01	0.33	11	92	
					I383554	28	8.94	23.10	7	31	STANDARD ROS-4
93.66	96.61	2.95	1.77		I383555	28	0.55	7.55	1780	4900	
96.61	98.26	1.65			I383556	28	0.02	0.73	121	185	
98.26	100.58	2.32	1.59		I383557	28	0.22	4.31	1230	1210	
100.58	102.11	1.53	1.27		I383558	28	0.41	6.46	8940	5810	
102.11	103.63	1.52	1.40		I383559	28	1.42	8.57	24900	5340	
103.63	105.16	1.53	1.41		I383560	29	0.71	5.31	8270	4770	
105.16	106.68	1.52	1.40		I383561	29	0.22	4.08	680	854	
106.68	108.20	1.52	1.36		I383562	29	0.39	5.43	4350	3700	
108.20	111.25	3.05	2.98		I383563	29	0.29	2.06	560	635	
111.25	114.30	3.05	3.02		I383564	29	0.13	1.89	451	271	
114.30	115.82	1.52	1.40		I383565	29	1.69	4.99	2590	1550	
115.82	118.87	3.05	2.66		I383566	29	0.39	3.64	667	684	
118.87	121.92	3.05	2.76		I383567	29	2.55	12.95	5480	5430	
					I383568	29	0.02	0.02	<5	25	BLANK
121.92	124.97	3.05	2.81		I383569	29	0.28	3.22	292	993	
					I383570	29	8.55	23.30	7	34	STANDARD ROS-4
124.97	125.90	0.93			I383571	29	0.78	6.45	800	1420	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Zn (ppm)	Comments
					I383572	29	<0.01	0.03	<5	21	BLANK
125.90	128.02	2.12	2.10		I383573	29	0.98	3.90	471	714	
					I383574	29	1.37	3.90	608	972	DUPLICATE

DENSITY LOG

HOLE: CH-11-07

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: CH-11-07

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			N/A	
2.00			0.03	
3.00			0.00	
4.00			0.01	
5.00			0.01	
6.00			0.00	
7.00			0.00	
8.00			0.01	
9.00			0.01	
10.00			0.05	
11.00			0.01	
12.00			0.01	
13.00			0.05	
14.00			0.00	
15.00			0.03	
16.00			0.01	
17.00			0.00	
18.00			0.06	
19.00			0.00	
20.00			0.03	
21.00			0.03	
22.00			0.01	
23.00			0.03	
24.00			0.06	
25.00			0.01	
26.00			0.00	
27.00			0.01	
28.00			0.01	
29.00			0.01	
30.00			0.03	
31.00			0.05	
32.00			0.03	
33.00			0.03	
34.00			0.05	
35.00			0.01	
36.00			0.06	
37.00			0.03	
38.00			0.00	
39.00			0.06	
40.00			0.00	
41.00			0.01	
42.00			0.00	
43.00			0.05	
44.00			0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.03	
46.00			0.01	
47.00			0.03	
48.00			0.15	
49.00			0.01	
50.00			0.03	
51.00			0.00	
52.00			0.05	
53.00			0.01	
54.00			0.13	
55.00			0.00	
56.00			0.03	
57.00			0.01	
58.00			0.01	
59.00			0.00	
60.00			0.05	
61.00			0.13	
62.00			0.05	
63.00			0.05	
64.00			0.03	
65.00			0.03	
66.00			0.05	
67.00			0.01	
68.00			0.01	
69.00			0.05	
70.00			0.03	
71.00			0.00	
72.00			0.01	
73.00			0.05	
74.00			0.01	
75.00			0.00	
76.00			0.00	
77.00			0.06	
78.00			0.01	
79.00			0.08	
80.00			0.00	
81.00			0.03	
82.00			0.05	
83.00			0.01	
84.00			0.01	
85.00			0.05	
86.00			0.05	
87.00			0.01	
88.00			0.00	
89.00			0.03	
90.00			0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			0.01	
92.00			0.00	
93.00			0.01	
94.00			0.01	
95.00			0.08	
96.00			0.13	
97.00			0.01	
98.00			0.05	
99.00			0.00	
100.00			0.00	
101.00			0.06	
102.00			0.00	
103.00			0.15	
104.00			0.10	
105.00			0.15	
106.00			0.03	
107.00			0.13	
108.00			0.08	
109.00			0.10	
110.00			0.05	
e.o.h				

BOX LOG

HOLE: CH-11-07

[illegible]

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		524855	7122000	1696	170.69

ZONE: CHEETAH

SECTION: _____

HOLE: CH-11-08

CLAIM: YC68900

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 3.05 (m) out

Drilling dates: August 10 to 12, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	320	-60.0	compass				

TARGET: _____

[illegible]

SAMPLES
Numbers: I383575 to I383598
Total: <u>24</u>
Batch: 29, 30
Certificate: WH11169076, WH11175140, WH11203944

COMMENTS	
Hole stopped short of target depth due to stability issues	

GEOLOGY LOG

HOLE: CH-11-08

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other				
																	Type	Intensity				Type	Intensity					
0.00	0.60	0.60				DOL		BX					i					WEA t									Rubbly light olive grey, intensely dolomite altered limestone. Slight weathering visible as light red-brown colouration on rubble.	
0.60	120.05	119.45				DOL		BX					i					WEA t									Light olive grey to medium grey-blue fine to medium-grained, brecciated, intensely to weakly dolomite altered limestone. Brecciated textures range from mottled textures with dark blue-grey limestone being replaced by a creamy white dolomite in crackle and mosaic brecciated textures with sub-rounded to sub-angular grey dolomite clasts supported by a dark-blue calcareous matrix. Core is predominantly competent with a few blocky sections. Slight weathering is visible as orange-brown to pinkish-red colouration on fracture faces.	
						VL 47 t																						White dolomite veinlets are scattered throughout and are oriented preferentially at 45-50
			0.60	15.24	14.64	DOL		BX					m					WEA t				Ca	t			X	As in general description, light to medium grey dolomite altered limestone. Brecciated texture is predominantly mottled. Fine-grained dolomite crystals are present within some of the veinlets. Weathering appears as a peachy pink to orange colouration mainly visible on white dolomite.	
									VL	50																	White dolomite veinlets at 50° crosscut through mottled textures.	
			15.24	15.80	0.56	DOL																					Light olive grey limestone altered dolomite with moderate weathering present as light orange-brown colouration on fracture faces.	
			15.80	17.20	1.40	DOL																					As in general description, medium grey limestone altered dolomite with mottled breccia texture.	
			17.20	19.93	2.73	DOL		BX																			Light grey to olive-grey dolomite altered limestone. Weak mottled brecciated texture is present. Dark red-brown (oxidized) Ca veinlets are present with to core axis and to foliation axis orientations indeterminate and up to .5cm thick, 10 in total. A light grey dolomite band containing mottled patches of a soft black, organic mineral (bitumen) appears at 17.54m. This region features moderate weathering visible as dusty pink colouration present on core surface, Ca veinlets and within fracture faces.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
			19.93	28.10	8.17	DOL		BX																		Light to medium grey dolomite altered limestone with weak mottled brecciated texture. White dolomite veinlets form a tectonic breccia texture. White dolomite veinlets form a tectonic breccia texture in small sections throughout core region. Bright orange to rosy pink-brown weathering appears on fracture faces.	
			28.10	41.15	13.05	DOL		BX					w													Region displays a strong mottled breccia texture. Core is medium grey limestone altered dolomite as in general description. Trace weathering is also present as a rosy-pink to light orange colouration on fracture faces. .	
			37.85						VL	50		2	w										Ca	t			White dolomite veinlets containing vugs filled with fine-grained calcite crystals oriented preferentially at 50° to core axis and up to .7cm thick are present. 2 total
			39.12						VL	70		1											Ca	t	Qz	t	White calcite interspersed with transparent quartz veinlets oriented at 70° to core axis up to 1cm thick.
			41.15	47.70	6.55	DOL		BX					w													Medium grey dolomite altered limestone with trace crackle breccia textures as in general description.	
			47.70	53.48	5.78	DOL		BX					w													Medium grey to olive grey dolomite altered limestone. Breccia texture is mottled as in a general description. Trace amounts of a soft black mineral (bitumen) are present.	
			53.48	55.87	2.39	DOL		BX					w													Region features mosaic breccia textures composed of sub-rounded to sub-angular white dolomite clasts ringed by a generally <1mm thick red oxidized coating supported by a dark grey-blue calcareous matrix. Otherwise core is generally light olive grey, weakly dolomite altered limestone.	
			59.18	59.35	0.17				VN	35		1													Ca	t	Dark brown-black calcite vein preferentially oriented at 35° to core axis and 11cm thick. Vein is slightly weathered, visible as orange-pink colouration.
			55.87	62.03	6.16	DOL		BX	BD	40			i													Light olive grey to pinkish grey fine to medium grained, intensely dolomite altered limestone with weak crackle brecciation and weak weathering. Crackle brecciation features a black, soft mineral (bitumen) often surrounded by reddish brown oxidation. Core is competent to blocky demonstrating the most competency in the least weathered regions. A sub-preferential 40° to core axis bedding is observed.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
			62.03	88.44	26.41	DOL		BX					i					WEA w									Light to medium olive grey to medium blue-grey fine to medium-grained, crackle brecciated intensely dolomite altered limestone with weak weathering. Weathering appears as brown mud on fracture faces and decreased competency of core. Crackle breccia features scattered <1mm thick dark brown dolomite cracks with dolomite altered limestone. Areas with blue-grey limestone feature limestone clasts preferentially oriented at 40 to core axis.
			88.44	90.30	1.86	DOL		BX					i														Light olive-grey to orange-grey, fine to medium-grained, brecciated intensely dolomite altered limestone with trace weathering and trace soft black mineral (bitumen). Brecciation is solution to tectonic, featuring white, medium-grained calcite veinlets isolating up to 1cm wide sub-angular to sub-rounded clasts of solomite altered limestone. Weathering is manifest as red-brown oxidation of core. Bitumen has micritic texture and appears to be overprinted by dolomite altered limestone where present. Core is competent.
			90.30	120.05	29.75	DOL		BX					i														As 62.03-88.44, except with thick regions of fair to moderate honey-brown oxidation of the core resulting in calcareous oxide mud/blocky limestone.
			97.35	98.93	1.58																						Honey-brown oxide mud
			99.06	99.23	0.17																						Honey-brown oxide mud
			99.45	99.56	0.11																						Honey-brown oxide mud
			109.00	109.27	0.27																						Honey-brown oxide mud
			111.07	111.18	0.11																						Honey-brown oxide mud
			111.60	111.93	0.33																						Honey-brown oxide mud

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Type			Intensity
																	Type	Intensity				Type	Intensity				
120.05	170.69	50.64				DOL		BX	BD	60			w	t				WEA	i						Ca	t	Light olive grey to medium grey-brown, fine to medium-grained, weakly to intensely oxidized, fairly brown calcite/siderite altered, intensely dolomite altered limestone with trace silica alteration and sub-preferential bedding orientation at 60° to core axis. Brecciation is crackle breccia featuring dark brown to dark grey calcite cracks spiderwebbing dolomite altered limestone core, from strong to weak in occurrence regionally and occasionally with accompanying quartz mineralization. Core is muddy to competent with muddy regions representing areas of greater oxidization. Oxidization is from honey-brown to deep red-brown in areas, depending on its strength. Silica alteration is present, along with being a part of crackle brecciation in some areas as well as quartz rubble within oxides in other areas.
			120.05	121.06	1.01																						Region of red-brown calcic oxide mud
																											Light to olive grey, fine to medium-grained, weakly crackle brecciated dolomite altered limestone as in general description. Bedding observed at 60° to core axis. Weak weathering present as honey-brown mud on fracture faces.
														t				WEA	i								Medium orange to dark chocolate brown calcic oxide mud. Trace silica alteration is present throughout as <1cm wide quartz pebbles.
																											Light to dark grey-brown, fine to medium grained, brecciated, intensely dolomite altered limestone. Dark chocolate brown to black calcite cracks and veinlets are scattered throughout competent pieces of core creating crackle breccia textures. Weathering features orange to dark brown mud coating the core surface and in between fractures.
																			WEA	s							Light olive grey, fine to medium-grained intensely dolomite altered limestone with trace crackle brecciation, as in general description. Weathering features honey-brown mud scattered throughout core and as coating on core surface.
						DOL		BX											WEA	m							Region features dark brown calcite cracks at veinlets creating strong crackle breccia textures on pieces of competent light brown grey dolomite altered limestone.
						DOL		BX											WEA	m							
						DOL							i						WEA	i							Intensely weathered, competent to muddy orange to chocolate brown dolomite altered limestone.

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other				
																	Type	Intensity				Type	Intensity	Type			Intensity	
			138.68	139.10	0.42			BX						t				WEA	t								Grey-white fine to medium grained, brecciated intensely silica altered limestone. Breccia features dark brown to black calcite veinlets and crackling creating crackle breccia textures. Calcite veinlets are slightly oxidized.	
			139.10	151.51	12.41	DOL							i	t				WEA	i				Qz	t			2X	Honey to chocolate brown calcic oxide mud featuring trace silica alteration present as up to 3cm thick quartz pebbles to small quartz grains. Intermittent pieces of light-grey intensely dolomite altered limestone competent core are present within muddy regions as well. Trace bright red colouration is found within muddy regions as well.
			151.51	155.45	3.94	DOL		BX					i														Light olive grey to honey-brown, crackle brecciated, intensely dolomite altered limestone with trace weathering as in general description. Red-brown limonite replacing pyrite crystals around 162m	
			155.45	170.69	15.24	DOL		BX					m					WEA	m								Light olive grey to honey and chocolate brown, fine to medium-grained, crackle brecciated, intensely dolomite altered limestone interspersed with calcic oxide weathering. End of hole, trageted depth passed.	
170.69						EOH																						

GEOTECHNICAL LOG

HOLE: CH-11-08

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
0.00	1.52	1.52	0.95	62	0	12	S	SW	10R 3/6	
1.52	3.05	1.52	1.10	72	0.44	29	S	SW	10R 3/6	
3.05	4.57	1.52	1.20	79	0.57	37	S	SW	10R 3/6	
4.57	6.10	1.52	1.20	79	0.91	60	S	SW	2.5YR 7/6	
6.10	7.62	1.52	1.23	81	0.90	59	S	SW	5YR 7/8	
7.62	9.14	1.52	1.34	88	0.84	55	S	SW	5YR 7/8	
9.14	10.67	1.52	1.32	87	1.28	84	S	SW	5YR 7/8	
10.67	12.19	1.52	1.45	95	1.43	94	S	SW	5YR 7/8	
12.19	13.72	1.52	1.40	92	1.38	91	S	SW	5YR 7/8	
13.72	15.24	1.52	1.23	81	0.89	58	S	SW	2.5Y 6/4	
15.24	16.76	1.52	1.32	87	0.68	45	S	SW	2.5Y 6/4	
16.76	18.29	1.52	1.31	86	1.11	73	S	SW	2.5Y 6/4	
18.29	19.81	1.52	1.35	89	1.15	75	S	SW	10R 5/6	
19.81	21.34	1.52	1.49	98	1.09	72	S	SW	10R 5/6	
21.34	22.86	1.52	1.51	99	1.05	69	S	SW	7.5YR 7/8	
22.86	24.38	1.52	1.17	77	0.98	64	S	SW	10R 3/6	
24.38	25.91	1.52	1.40	92	1.12	73	VS	SW	10R 3/6	
25.91	27.43	1.52	1.52	100	1.52	100	VS	SW	10R 3/6	
27.43	28.96	1.52	1.49	98	1.27	83	VS	SW	10R 3/6	
28.96	30.48	1.52	1.42	93	1.16	76	VS	SW	10R 3/6	
30.48	32.00	1.52	1.44	94	1.27	83	VS	SW	10R 3/6	
32.00	33.53	1.52	1.50	98	1.50	98	VS	SW	10R 3/6	
33.53	35.05	1.52	1.50	98	1.50	98	VS	SW	10YR 7/6	
35.05	36.58	1.52	1.50	98	1.35	89	VS	SW	10YR 7/6	
36.58	38.10	1.52	1.52	100	1.52	100	VS	SW	10YR 7/6	
38.10	39.62	1.52	1.36	89	0.89	58	VS	SW	10YR 7/6	
39.62	41.15	1.52	1.48	97	1.03	68	VS	SW	10YR 7/6	
41.15	42.67	1.52	1.52	100	1.48	97	VS	SW	10YR 7/6	
42.67	44.20	1.52	1.52	100	1.49	98	VS	SW	10YR 7/6	
44.20	45.72	1.52	1.41	93	1.32	87	VS	SW	10YR 7/6	
45.72	47.24	1.52	1.42	93	1.16	76	VS	SW	10YR 7/6	
47.24	48.77	1.52	1.51	99	1.50	98	VS	SW	10YR 7/6	
48.77	50.29	1.52	1.42	93	1.40	92	VS	SW	2.5Y 7/4	
50.29	51.82	1.52	1.31	86	1.25	82	VS	SW	2.5Y 7/4	
51.82	53.34	1.52	1.37	90	1.22	80	VS	SW	2.5Y 7/4	
53.34	54.86	1.52	1.39	91	0.78	51	VS	SW	2.5Y 7/4	
54.86	56.39	1.52	1.45	95	0.91	60	VS	SW	2.5Y 7/4	
56.39	57.91	1.52	1.35	89	1.23	81	VS	SW	2.5Y 7/4	
57.91	59.44	1.52	1.52	100	1.00	66	VS	SW	2.5Y 7/4	
59.44	60.96	1.52	1.28	84	0.79	52	VS	SW	2.5Y 7/4	
60.96	62.48	1.52	1.51	99	1.51	99	VS	SW	2.5Y 7/4	
62.48	64.01	1.52	1.47	96	1.16	76	VS	SW	2.5Y 7/4	
64.01	65.53	1.52	1.52	100	0.92	60	VS	SW	2.5Y 7/4	
65.53	67.06	1.52	1.35	89	1.05	69	VS	SW	2.5Y 7/4	
67.06	68.58	1.52	1.49	98	1.35	89	VS	SW	2.5Y 7/4	
68.58	70.10	1.52	1.31	86	1.07	70	VS	SW	2.5Y 7/4	
70.10	71.63	1.52	1.27	83	0.57	37	VS	SW	2.5Y 7/4	
71.63	73.15	1.52	1.36	89	1.12	73	VS	SW	2.5Y 7/4	
73.15	74.68	1.52	1.52	100	1.52	100	VS	SW	2.5Y 7/4	
74.68	76.20	1.52	1.43	94	1.43	94	VS	SW	2.5Y 7/4	
76.20	77.72	1.52	1.46	96	1.42	93	VS	SW	2.5Y 7/4	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
77.72	79.25	1.52	1.39	91	1.39	91	VS	SW	2.5Y 7/4	
79.25	80.77	1.52	1.35	89	0.83	54	VS	SW	2.5Y 7/4	
80.77	82.30	1.52	1.25	82	0.60	39	VS	SW	2.5Y 7/4	
82.30	83.82	1.52	1.32	87	0.90	59	VS	SW	2.5Y 7/4	
83.82	85.34	1.52	1.45	95	1.42	93	VS	SW	2.5Y 7/4	
85.34	86.87	1.52	1.40	92	1.08	71	VS	SW	2.5Y 7/4	
86.87	88.39	1.52	1.14	75	0.00	0	VS	SW	2.5Y 7/4	
88.39	89.92	1.52	1.34	88	1.22	80	VS	SW	7.5YR 7/6	
89.92	91.44	1.52	1.41	93	1.15	75	VS	SW	2.5Y 7/4	
91.44	92.96	1.52	1.42	93	0.98	64	VS	SW	2.5Y 7/4	
92.96	94.49	1.52	1.29	85	0.94	62	VS	SW	2.5Y 7/4	
94.49	96.01	1.52	1.33	87	0.89	58	VS	SW	2.5Y 7/4	
96.01	97.54	1.52	1.07	70	0.27	18	VS	SW	2.5Y 7/4	
97.54	99.06	1.52	1.51	99	0.14	9	W	MW	2.5Y 7/4	
99.06	100.58	1.52	1.50	98	0.89	58	MS	SW	2.5Y 7/4	
100.58	102.11	1.52	1.50	98	1.40	92	VS	SW	2.5Y 7/4	
102.11	103.63	1.52	1.36	89	0.95	62	VS	SW	2.5Y 7/4	
103.63	105.16	1.52	1.49	98	1.28	84	VS	SW	2.5Y 7/4	
105.16	106.68	1.52	1.52	100	1.52	100	VS	SW	2.5Y 7/4	
106.68	108.20	1.52	1.44	94	0.96	63	VS	SW	2.5Y 7/4	
108.20	109.73	1.52	1.44	94	1.03	68	S	SW	2.5Y 7/4	
109.73	111.25	1.52	1.52	100	0.67	44	S	SW	2.5Y 7/4	
111.25	112.78	1.52	1.45	95	0.76	50	S	SW	2.5Y 7/4	
112.78	114.30	1.52	1.47	96	1.47	96	VS	SW	2.5Y 7/4	
114.30	115.82	1.52	1.45	95	1.34	88	VS	SW	2.5Y 7/4	
115.82	117.35	1.52	1.42	93	1.32	87	VS	SW	2.5Y 7/4	
117.35	118.87	1.52	1.52	100	1.50	98	VS	SW	2.5Y 7/4	
118.87	120.40	1.52	1.22	80	0.42	28	VW	HW	2.5YR 4/6	
120.40	121.92	1.52	1.35	89	0.28	18	S	SW	2.5Y 7/4	
121.92	123.44	1.52	1.46	96	1.36	89	S	SW	2.5Y 7/4	
123.44	124.97	1.52	1.48	97	0.00	0	VW	HW	2.5YR 4/6	
124.97	126.49	1.52	1.33	87	0.36	24	W	MW	7.5YR 5/6	
126.49	128.02	1.52	1.34	88	0.47	31	MS	MW	7.5YR 5/6	
128.02	129.54	1.52	1.26	83	0.00	0	W	MW	7.5YR 5/6	
129.54	131.06	1.52	1.52	100	0.76	50	MS	MW	7.5YR 5/6	
131.06	132.59	1.52	1.28	84	0.36	24	MS	MW	7.5YR 5/6	
132.59	134.11	1.52	1.44	94	0.68	45	MS	MW	7.5YR 5/6	
134.11	135.64	1.52	1.15	75	0.33	22	S	MW	7.5YR 5/6	
135.64	137.16	1.52	1.52	100	0.85	56	S	SW	7.5YR 5/6	
137.16	138.68	1.52	1.38	91	0.29	19	W	HW	7.5YR 5/6	
138.68	140.21	1.52	1.40	92	0.42	28	W	HW	7.5YR 5/6	
140.21	141.73	1.52	1.40	92	0.00	0	VW	HW	7.5YR 5/6	
141.73	143.26	1.52	1.51	99	0.29	19	VW	HW	7.5YR 5/6	
143.26	144.78	1.52	1.52	100	0.10	7	VW	EW	7.5YR 6/6	
144.78	146.30	1.52	1.52	100	0.27	18	VW	EW	7.5YR 6/6	
146.30	147.83	1.52	1.36	89	0.28	18	W	HW	7.5YR 6/6	
147.83	149.35	1.52	1.09	72	0.30	20	W	HW	7.5YR 6/6	
149.35	150.88	1.52	1.37	90	0.20	13	VW	EW	7.5YR 6/6	
150.88	152.40	1.52	1.45	95	1.12	73	VS	SW	7.5YR 6/6	
152.40	153.92	1.52	1.52	100	1.52	100	VS	SW	7.5YR 6/6	
153.92	155.45	1.52	1.23	81	1.23	81	VS	MW	7.5YR 6/6	
155.45	156.97	1.52	1.32	87	0.00	0	MS	MW	7.5YR 6/6	
156.97	158.50	1.52	1.41	93	0.34	22	MS	MW	7.5YR 6/6	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
158.50	160.02	1.52	1.50	98	1.33	87	S	SW	7.5YR 6/6	
160.02	161.54	1.52	1.40	92	0.37	24	S	SW	7.5YR 6/6	
161.54	163.07	1.52	1.52	100	0.44	29	W	MW	7.5YR 6/6	
163.07	164.59	1.52	1.41	93	1.33	87	VS	SW	7.5YR 6/6	
164.59	166.12	1.52	1.25	82	0.74	49	W	MW	7.5YR 6/6	
166.12	167.64	1.52	1.12	73	0.11	7	W	MW	7.5YR 6/6	
167.64	169.16	1.52	1.00	66	0.00	0	W	MW	7.5YR 6/6	
169.16	170.69	1.52	0.95	62	0.00	0	VW	HW	7.5YR 6/6	

SAMPLE LOG

HOLE: CH-11-08

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Zn (ppm)	Comments
117.35	120.04	2.69	2.67	99	I383575	29	<0.01	0.19	29	92	
120.04	121.92	1.88	1.68	89	I383576	29	0.03	2.13	918	2040	
121.92	124.06	2.14	2.08	97	I383577	29	<0.01	0.38	70	165	
124.06	125.10	1.04	1.10	106	I383578	29	0.28	17.85	3200	6310	
125.10	128.02	2.92	2.71	93	I383579	29	0.08	12.25	409	4850	
128.02	131.06	3.04	2.78	91	I383580	29	0.05	8.30	192	3750	
131.06	134.11	3.05	2.72	89	I383581	29	0.02	2.99	115	1380	
134.11	137.20	3.09	2.88	93	I383582	29	0.02	1.15	66	928	
137.20	138.68	1.48	1.34	91	I383583	29	0.08	5.14	405	4560	
138.68	140.21	1.53	1.40	92	I383584	29	0.10	10.20	368	2610	
140.21	143.26	3.05	2.91	95	I383585	29	0.08	3.59	323	2600	
143.26	146.30	3.04	3.04	100	I383586	29	0.23	5.36	968	4320	
146.30	149.35	3.05	2.45	80	I383587	29	0.19	5.28	398	1700	
149.35	151.55	2.20	2.08	95	I383588	29	0.31	5.71	449	2330	
151.55	153.92	2.37	2.41	102	I383589	29	0.02	0.46	36	132	
153.92	155.45	1.53	1.23	80	I383590	29	0.02	0.24	37	87	
155.45	158.14	2.69	2.42	90	I383591	29	0.13	2.78	444	1080	
158.14	160.23	2.09	2.12	101	I383592	29	0.01	0.33	34	46	
160.23	161.54	1.31	2.82	215	I383593	29	0.06	0.94	127	326	
					I383594	29	2.95	1.80	2150	417	Standard ROS-3
161.54	163.07	1.53	1.52	99	I383595	29	0.10	3.68	359	1020	
163.07	166.12	3.05	2.66	87	I383596	30	0.02	0.73	114	294	
166.12	169.16	3.04	2.12	70	I383597	30	0.10	3.62	547	1320	
169.16	170.69	1.53	0.95	62	I383598	30	0.04	4.66	514	1510	

DENSITY LOG

HOLE: CH-11-08

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: CH-11-08

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			0.01	
2.00			0.00	
3.00			0.06	
4.00			0.01	
5.00			0.03	
6.00			0.00	
7.00			0.05	
8.00			0.01	
9.00			0.01	
10.00			0.08	
11.00			0.05	
12.00			0.00	
13.00			0.01	
14.00			0.00	
15.00			0.05	
16.00			0.00	
17.00			0.01	
18.00			0.01	
19.00			0.08	
20.00			0.01	
21.00			0.03	
22.00			0.00	
23.00			0.06	
24.00			0.01	
25.00			0.01	
26.00			0.00	
27.00			0.08	
28.00			0.05	
29.00			0.00	
30.00			0.00	
31.00			0.00	
32.00			0.01	
33.00			0.00	
34.00			0.03	
35.00			0.06	
36.00			0.00	
37.00			0.00	
38.00			0.00	
39.00			0.01	
40.00			0.01	
41.00			0.01	
42.00			0.06	
43.00			0.00	
44.00			0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.00	
46.00			0.01	
47.00			0.08	
48.00			0.01	
49.00			0.03	
50.00			0.01	
51.00			0.00	
52.00			0.01	
53.00			0.03	
54.00			0.00	
55.00			0.00	
56.00			0.00	
57.00			0.00	
58.00			0.00	
59.00			0.03	
60.00			0.01	
61.00			0.01	
62.00			0.00	
63.00			0.01	
64.00			0.00	
65.00			0.01	
66.00			0.00	
67.00			0.00	
68.00			0.00	
69.00			0.00	
70.00			0.00	
71.00			0.01	
72.00			0.00	
73.00			0.00	
74.00			0.00	
75.00			0.00	
76.00			0.00	
77.00			0.01	
78.00			0.00	
79.00			0.01	
80.00			0.00	
81.00			0.00	
82.00			0.00	
83.00			0.00	
84.00			0.00	
85.00			0.00	
86.00			0.00	
87.00			0.01	
88.00			0.00	
89.00			0.00	
90.00			0.01	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			0.00	
92.00			0.01	
93.00			0.00	
94.00			0.00	
95.00			0.00	
96.00			0.00	
97.00			0.00	
98.00			n/a	
99.00			0.00	
100.00			0.01	
101.00			0.01	
102.00			0.05	
103.00			0.01	
104.00			0.00	
105.00			0.05	
106.00			0.08	
107.00			0.00	
108.00			0.06	
109.00			0.00	
110.00			0.08	
111.00			0.01	
112.00			0.01	
113.00			0.00	
114.00			0.05	
115.00			0.01	
116.00			0.01	
117.00			0.03	
118.00			0.10	
119.00			0.01	
120.00			0.05	
121.00			0.11	
122.00			0.03	
123.00			0.01	
124.00			0.03	
125.00			0.23	
126.00			0.10	
127.00			0.03	
128.00			0.01	
129.00			0.26	
130.00			0.13	
131.00			0.03	
132.00			0.16	
133.00			0.03	
134.00			0.01	
135.00			0.00	
136.00			0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00			0.13	
138.00			0.10	
139.00			0.06	
140.00			0.18	
141.00			0.20	
142.00			0.03	
143.00			0.01	
144.00			0.10	
145.00			0.25	
146.00			0.01	
147.00			0.10	
148.00			0.03	
149.00			0.06	
150.00			0.13	
151.00			0.15	
152.00			0.18	
153.00			0.01	
154.00			0.01	
155.00			0.00	
156.00			0.08	
157.00			0.06	
158.00			0.15	
159.00			0.03	
160.00			0.01	
161.00			0.03	
162.00			0.16	
163.00			0.03	
164.00			0.05	
165.00			0.03	
166.00			0.00	
167.00			0.00	
168.00			0.06	
169.00			0.08	
170.00			0.11	
EOH				

BOX LOG

HOLE: CH-11-08

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.00	4.07	36	137.06	140.90
2	4.07	7.62	37	140.90	144.78
3	7.62	11.81	38	144.78	148.75
4	11.81	15.81	39	148.75	152.71
5	15.81	19.93	40	152.71	156.97
6	19.93	23.64	41	156.97	160.98
7	23.64	27.71	42	160.98	164.92
8	27.71	31.81	43	164.92	169.60
9	31.81	35.74	44	169.60	170.69
10	35.74	39.75		EOH	
11	39.75	43.53			
12	43.53	47.54			
13	47.54	51.82			
14	51.82	55.70			
15	55.70	59.65			
16	59.65	63.55			
17	63.55	67.51			
18	67.51	71.46			
19	71.46	75.45			
20	75.45	79.56			
21	79.56	83.39			
22	83.39	86.87			
23	86.87	90.82			
24	90.82	94.83			
25	94.83	98.93			
26	98.93	102.90			
27	102.90	106.95			
28	106.95	110.89			
29	110.89	114.68			
30	114.68	118.66			
31	118.66	122.52			
32	122.52	126.03			
33	126.03	129.54			
34	129.54	133.23			
35	133.23	137.06			

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		524779	7122019	1695	176.79

ZONE: CHEETAH

SECTION: _____

HOLE: CH-11-09

CLAIM: YC68939

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 4.57 (m) out

Drilling dates: August 13 to 15, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	320	-50.0	compass	131.07	323	-48.8	Ranger
39.62	322	-49.1	Ranger	146.31	323	-49.0	Ranger
70.10	322	-48.9	Ranger	161.55	324	-49.3	Ranger
100.59	323	-48.4	Ranger	176.50	324	-48.8	Ranger

TARGET: Cheetah fault

[illegible]

SAMPLES
Numbers: I383599 to I383624
Total: <u>26</u>
Batch: <u>30</u>
Certificate: WH11175140, WH11203944

COMMENTS	

GEOLOGY LOG

HOLE: CH-11-09

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
0.00	0.92	0.92				OVB																				No recovery.	
0.92	1.72	0.80				OVB																				Overburden, rubbly dolomite altered limestone	
																										Light rosy-grey to medium blue-grey, fine to medium grained, brecciated, weakly to strongly oxidized intermittently foliated, intensely dolomite altered limestone with trace quartz and calcite veinlets. Brecciation consists of crackle breccia to solution collapse breccia. Crackle breccia features 1mm thick, dark blue or brown calcite within lighter dolomite altered limestone, solution collapse breccia is designated by scattered regions of white dolomite veinlets occasionally marked by vugs revealing coarse-grained dolomite rhombs and occasionally isolating sub-angular clasts of host dolomite altered limestone. Oxidization occurs as blocky to muddy regions perpetuated by honey-brown to orange-brown stain on core or on a calcic oxide mud. Core is competent otherwise.	
1.72	64.15	62.43				DOL		BX					i					WEA	t							20-30° to core axis foliation of limestone marked by parallel aligned thin white calcite/dolomite bands interspersed with darker dolomite altered limestone, occasionally isolating small, sub-angular clasts of dolomite altered limestone which are preferentially aligned following foliation.	
				1.72																						Light-grey, weakly foliated region of dolomite altered limestone as in general description.	
																										Rosy-grey to light-grey region of half-moon to rounded clasts sub-preferentially oriented along foliation. Solution collapse breccia texture of white dolomite veinlets isolating rounded to sub-rounded rosy-grey dolomite altered limestone clasts up to 3cm in diameter is visible. Region is differentiated from elsewhere because of roundedness of clasts and overall reddish tinge.	
				4.00																						As general description, thinly foliated, light orange in colour.	
				8.55																						Unbrecciated to weakly crackle brecciated, light grey dolomite altered limestone.	
				12.75																						Fairly oxidized, competent to rubbly intermittently foliated dolomite altered limestone with <10cm thick regions of honey-brown oxide mud. Intermittently foliated as general description.	
																					</						

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
			36.64	49.50	12.86								s													Medium blue-grey to light grey largely unfoliated crackle breccia, strong dolomite altered limestone with trace oxidation. Core is competent to blocky	
			49.50	64.15	14.65																					Weakly honey to orange-brown oxide. Foliated light grey interval. Dolomite altered limestone	
64.15	90.66	26.51				DOL	OX																			Intensely to strongly orange-brown to purple brown oxidized mud intermittent with regions of orange to purple grey intensely dolomite altered limestone with crackle breccia. Vein of dark brown calcite+siderite, non-mud core is blocky to competent, some rubbly displaying less competency in more oxidized sections. Trace quartz present as pebbles	
			64.15	74.35	10.20																					Intensely orange-brown oxidized mud with scattered regions of dolomite altered limestone as in general description. Traze quartz pebbles.	
			74.35	76.23	1.88																			QZ	t	Intensely orange to purple brown oxidized mud	
			76.23	83.55	7.32																					Intensely orange to red-brown oxidized mud with scattered regions of dolomite altered limestone as in general description.	
			83.55	90.66	7.11																					Competent to muddy dolomite altered limestone region with thick dark purple brown siderite veinlets and muddy sections as well as regions of honey-brown to purple-brown, fairly oxidized, siderite veins Dolomite altered limestone.	
90.66	176.79	86.13																								Dark blue-grey to light green-grey mottled, intensely dolomite altered limestone with trace quartz and calcite. Altered and trace reddish oxidation throughout giving blue-grey sections a purple tinge: quartz and calcite alteration is present as scattered with veinlets with no common orientation. Core is very competent overall.	
			90.66	109.20	18.54																					green is predomanant core colour	
			109.20	120.60	11.40																					core is mostly red	
			120.60	134.20	13.60																					blueish core	
			134.20	176.79	42.59																					purple dominant colour.	
176.79						EOH																					

GEOTECHNICAL LOG

HOLE: CH-11-09

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
0.00	1.52	1.52	0.11	7	0	0	S	SW	7.5YR 6/4	
1.52	3.05	1.52	0.98	64	0.13	9	VS	SW	7.5YR 6/4	
3.05	4.57	1.52	1.06	70	0.66	43	VS	SW	7.5YR 6/4	
4.57	6.10	1.52	1.00	66	0.50	33	VS	SW	7.5YR 6/4	
6.10	7.62	1.52	1.47	96	1.05	69	VS	SW	7.5YR 6/4	
7.62	9.14	1.52	1.38	91	1.18	77	VS	SW	7.5YR 6/4	
9.14	10.67	1.52	1.51	99	1.14	75	VS	SW	7.5YR 6/4	
10.67	12.19	1.52	1.35	89	0.81	53	VS	SW	7.5YR 6/4	
12.19	13.72	1.52	1.52	100	1.04	68	VS	SW	7.5YR 6/4	
13.72	15.24	1.52	1.24	81	0.61	40	S	MS	7.5YR 6/4	
15.24	16.76	1.52	1.42	93	0.71	47	VS	SW	7.5YR 6/4	
16.76	18.29	1.52	1.36	89	0.53	35	VS	SW	7.5YR 6/4	
18.29	19.81	1.52	1.48	97	1.27	83	VS	SW	7.5YR 6/4	
19.81	21.34	1.52	1.26	83	0.70	46	VS	SW	7.5YR 6/4	
21.34	22.86	1.52	1.50	98	1.06	70	VS	SW	7.5YR 6/4	
22.86	24.38	1.52	1.29	85	0.45	30	S	MS	7.5YR 6/4	
24.38	25.91	1.52	1.26	83	0.50	33	VS	SW	7.5YR 6/4	
25.91	27.43	1.52	1.31	86	1.11	73	VS	SW	7.5YR 6/4	
27.43	28.96	1.52	1.38	91	0.95	62	S	MS	7.5YR 6/4	
28.96	30.48	1.52	1.24	81	0.15	10	S	MS	7.5YR 6/4	
30.48	32.00	1.52	1.49	98	0.90	59	VS	SW	7.5YR 6/4	
32.00	33.53	1.52	1.53	100	0.62	41	VS	SW	7.5YR 6/4	
33.53	35.05	1.52	1.52	100	1.43	94	VS	SW	7.5YR 6/4	
35.05	36.58	1.52	1.34	88	0.65	43	VS	SW	7.5YR 6/4	
36.58	38.10	1.52	1.52	100	1.19	78	VS	SW	7.5YR 6/4	
38.10	39.62	1.52	1.45	95	1.05	69	VS	SW	7.5YR 6/4	
39.62	41.15	1.52	1.44	94	1.10	72	VS	SW	7.5YR 6/4	
41.15	42.67	1.52	1.53	100	1.37	90	VS	SW	7.5YR 6/4	
42.67	44.20	1.52	1.48	97	1.05	69	VS	SW	7.5YR 6/4	
44.20	45.72	1.52	1.52	100	1.42	93	VS	SW	7.5YR 6/4	
45.72	47.24	1.52	1.30	85	0.92	60	VS	SW	7.5YR 6/4	
47.24	48.77	1.52	1.28	84	0.55	36	VS	SW	7.5YR 6/4	
48.77	50.29	1.52	1.22	80	0.33	22	MS	HW	7.5YR 5/6	
50.29	51.82	1.52	1.21	79	0.46	30	W	MW	7.5YR 5/6	
51.82	53.34	1.52	1.28	84	0.40	26	W	HW	7.5YR 5/6	
53.34	54.86	1.52	1.37	90	0.91	60	S	MW	7.5YR 5/6	
54.86	56.39	1.52	1.31	86	0.86	56	MS	HW	7.5YR 5/6	
56.39	57.91	1.52	1.31	86	0.83	54	MS	MW	7.5YR 5/6	
57.91	59.44	1.52	1.20	79	0.00	0	W	EW	7.5YR 5/6	
59.44	60.96	1.52	1.35	89	0.50	33	W	HW	7.5YR 5/6	
60.96	62.48	1.52	1.51	99	0.78	51	S	MW	7.5YR 5/6	
62.48	64.01	1.52	1.53	100	0.95	62	MS	MW	7.5YR 5/6	
64.01	65.53	1.52	1.33	87	0.12	8	W	EW	7.5YR 5/6	
65.53	67.06	1.52	1.53	100	0.00	0	W	EW	7.5YR 5/6	
67.06	68.58	1.52	1.39	91	0.00	0	W	EW	7.5YR 5/6	
68.58	70.10	1.52	1.49	98	0.00	0	W	EW	7.5YR 5/6	
70.10	71.63	1.52	1.40	92	0.00	0	W	EW	7.5YR 5/6	
71.63	73.15	1.52	1.52	100	0.12	8	W	EW	7.5YR 5/6	
73.15	74.68	1.52	1.46	96	0.00	0	W	EW	7.5YR 5/6	
74.68	76.20	1.52	1.28	84	0.00	0	W	EW	5YR 3/4	
76.20	77.72	1.52	1.37	90	0.00	0	W	EW	5YR 3/4	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
77.72	79.25	1.52	1.53	100	0.00	0	W	EW	5YR 3/4	
79.25	80.77	1.52	1.52	100	0.00	0	W	EW	5YR 3/4	
80.77	82.30	1.52	1.22	80	0.00	0	W	EW	5YR 3/4	
82.30	83.82	1.52	1.53	100	0.22	14	W	EW	5YR 3/4	
83.82	85.35	1.52	1.22	80	1.06	70	MS	HW	5YR 3/4	
85.35	86.87	1.52	1.53	100	0.12	8	W	EW	5YR 3/4	
86.87	88.39	1.52	1.52	100	0.71	47	MS	HW	5YR 3/4	
88.39	89.92	1.52	1.40	92	0.41	27	MS	HW	5YR 3/4	
89.92	91.44	1.52	1.52	100	0.79	52	S	HW	10R 3/3	
91.44	92.97	1.52	1.42	93	1.52	100	S	SW	10RR 3/3	
92.97	94.49	1.52	1.52	100	1.37	90	S	SW	7.5YR 5/8	
94.49	96.01	1.52	1.52	100	1.52	100	S	SW	7.5YR 5/8	
96.01	97.54	1.52	1.46	96	1.42	93	S	FR	N/A	
97.54	99.06	1.52	1.52	100	1.52	100	VS	SW	5YR 5/6	
99.06	100.59	1.52	1.50	98	1.38	91	VS	SW	5YR 5/6	
100.59	102.11	1.52	1.53	100	1.31	86	VS	SW	5YR 5/6	
102.11	103.63	1.52	1.42	93	1.42	93	VS	SW	5YR 5/6	
103.63	105.16	1.52	1.49	98	1.46	96	VS	SW	5YR 5/6	
105.16	106.68	1.52	1.52	100	1.52	100	VS	SW	5YR 5/6	
106.68	108.21	1.52	1.48	97	1.48	97	VS	SW	5YR 5/6	
108.21	109.73	1.52	1.49	98	1.49	98	VS	SW	5YR 5/6	
109.73	111.25	1.52	1.52	100	1.46	96	VS	SW	5YR 5/6	
111.25	112.78	1.52	1.45	95	1.45	95	VS	SW	5YR 5/6	
112.78	114.30	1.52	1.45	95	1.37	90	VS	SW	5YR 5/6	
114.30	115.83	1.52	1.52	100	1.52	100	S	SW	5YR 5/6	
115.83	117.35	1.52	1.53	100	1.53	100	S	SW	5YR 5/6	
117.35	118.87	1.52	1.45	95	0.92	60	MS	SW	5YR 5/6	
118.87	120.40	1.52	1.53	100	0.82	54	S	SW	5YR 5/6	
120.40	121.92	1.52	1.39	91	1.32	87	VS	SW	5YR 5/6	
121.92	123.45	1.52	1.49	98	1.52	100	VS	SW	5YR 5/6	
123.45	124.97	1.52	1.50	98	1.36	89	S	SW	5YR 5/6	
124.97	126.49	1.52	1.41	93	1.19	78	MS	SW	5YR 5/6	
126.49	128.02	1.52	1.51	99	0.94	62	S	SW	5YR 5/6	
128.02	129.54	1.52	1.51	99	0.50	33	MS	SW	5YR 5/6	
129.54	131.07	1.52	1.53	100	1.33	87	MS	SW	5YR 5/6	
131.07	132.59	1.52	1.52	100	1.51	99	MS	SW	5YR 5/6	
132.59	134.11	1.52	1.48	97	1.03	68	S	SW	5YR 5/6	
134.11	135.64	1.52	1.47	96	1.25	82	MS	FR	N/A	
135.64	137.16	1.52	1.52	100	1.36	89	S	FR	N/A	
137.16	138.69	1.52	1.53	100	1.42	93	VS	FR	N/A	
138.69	140.21	1.52	1.39	91	1.41	93	VS	FR	N/A	
140.21	141.73	1.52	1.45	95	1.21	79	S	FR	N/A	
141.73	143.26	1.52	1.45	95	1.42	93	S	FR	N/A	
143.26	144.78	1.52	1.52	100	1.38	91	S	FR	N/A	
144.78	146.31	1.52	1.53	100	1.53	100	S	FR	N/A	
146.31	147.83	1.52	1.48	97	1.40	92	S	SW	10R 4/6	
147.83	149.35	1.52	1.52	100	1.38	91	S	SW	10R 4/6	
149.35	150.88	1.52	1.41	93	1.31	86	S	SW	5R 4/6	
150.88	152.40	1.52	1.47	96	1.19	78	S	SW	5R 4/6	
152.40	153.93	1.52	1.50	98	1.39	91	VS	SW	5R 4/6	
153.93	155.45	1.52	1.38	91	0.79	52	VW	SW	5R 4/6	
155.45	156.97	1.52	1.52	100	1.11	73	MS	SW	5R 6/8	
156.97	158.50	1.52	1.41	93	1.24	81	S	SW	5R 6/8	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
158.50	160.02	1.52	1.52	100	1.52	100	VS	SW	5R 6/8	
160.02	161.55	1.52	1.52	100	1.52	100	S	SW	5R 6/8	
161.55	163.07	1.52	1.51	99	1.51	99	S	SW	5R 6/8	
163.07	164.59	1.52	1.52	100	1.52	100	S	SW	5R 6/8	
164.59	166.12	1.52	1.53	100	1.44	94	S	SW	5R 6/8	
166.12	167.64	1.52	1.52	100	1.44	94	MS	SW	5R 6/8	
167.64	169.17	1.52	1.52	100	1.50	98	S	SW	2.5YR 4/8	
169.17	170.69	1.52	1.49	98	1.41	93	V	FR	N/A	
170.69	172.21	1.52	1.52	100	1.36	89	V	FR	N/A	
172.21	173.74	1.52	1.46	96	1.46	96	S	FR	N/A	
173.74	175.26	1.52	1.41	93	0.67	44	S	FR	N/A	
175.26	176.79	1.52	1.52	100	1.37	90	S	FR	N/A	

SAMPLE LOG

HOLE: CH-11-09

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Zn (ppm)	Comments
47.24	49.45	2.21	2.83		I383599	30	<0.01	0.14	6	134	
49.45	51.82	2.37	1.80		I383600	30	0.06	1.28	152	416	
51.82	54.86	3.04			I383601	30	0.02	0.69	46	177	
54.86	57.91	3.05			I383602	30	0.01	0.30	14	89	
57.91	60.96	3.05			I383603	30	0.03	1.00	114	469	
60.96	62.48	1.52			I383604	30	0.02	0.35	17	100	
62.48	64.29	1.81	1.80		I383605	30	0.02	0.64	48	157	
64.29	67.06	2.77	2.59		I383606	30	0.98	43.80	4920	6190	
67.06	68.58	1.52			I383607	30	2.73	16.65	1705	7060	
68.58	70.10	1.52			I383608	30	1.60	17.60	2310	3600	
70.10	73.15	3.05			I383609	30	0.36	11.40	2080	2890	
73.15	76.20	3.05			I383610	30	0.88	21.10	3670	3850	
					I383611	30	<0.01	0.10	6	29	blank hq
76.20	79.25	3.05			I383612	30	0.80	25.90	4120	4630	
					I383613	30	2.92	1.67	1855	366	standard ros 3
79.25	82.30	3.05			I383614	30	0.54	18.75	6490	5400	
82.30	83.82	1.52			I383615	30	0.38	20.60	1780	4240	
					I383616	30	8.42	26.10	10	37	standard ros 4
83.82	86.87	3.05			I383617	30	0.79	36.40	2780	9000	
					I383618	30	<0.01	0.07	8	28	blank hq
86.87	89.73	2.86	2.80		I383619	30	0.33	21.80	1110	4710	
89.73	90.61	0.88	0.87		I383620	30	0.59	43.90	2350	19400	
90.61	90.61	0.00	2.34		I383621	30	0.02	1.00	52	451	
90.61	92.96	2.35	2.34		I383622	30	0.02	1.05	53	478	duplicate
92.96	96.01	3.05			I383623	30	<0.01	0.35	18	117	
154.76	155.45	0.69			I383624	30	0.01	2.63	466	1280	

DENSITY LOG

HOLE: CH-11-09

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: CH-11-09

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			0.01	
2.00			0.01	
3.00			0.00	
4.00			0.01	
5.00			0.03	
6.00			0.03	
7.00			0.01	
8.00			0.00	
9.00			0.01	
10.00			0.03	
11.00			0.05	
12.00			0.06	
13.00			0.05	
14.00			0.00	
15.00			0.03	
16.00			0.06	
17.00			0.01	
18.00			0.00	
19.00			0.03	
20.00			0.11	
21.00			0.13	
22.00			0.05	
23.00			0.03	
24.00			0.01	
25.00			0.03	
26.00			0.01	
27.00			0.01	
28.00			0.03	
29.00			0.13	
30.00			0.05	
31.00			0.01	
32.00			0.00	
33.00			0.06	
34.00			0.05	
35.00			0.01	
36.00			0.05	
37.00			0.10	
38.00			0.03	
39.00			0.05	
40.00			0.06	
41.00			0.01	
42.00			0.00	
43.00			0.00	
44.00			0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.01	
46.00			0.10	
47.00			0.01	
48.00			0.05	
49.00			0.01	
50.00			0.01	
51.00			0.00	
52.00			0.00	
53.00			0.00	
54.00			0.01	
55.00			0.00	
56.00			0.00	
57.00			0.00	
58.00			0.00	
59.00			0.03	
60.00			0.03	
61.00			0.00	
62.00			0.03	
63.00			0.03	
64.00			0.07	
65.00			0.62	
66.00			0.42	
67.00			0.43	
68.00			0.93	
69.00			0.40	
70.00			0.56	
71.00			0.58	
72.00			0.05	
73.00			0.60	
74.00			0.51	
75.00			0.51	
76.00			0.47	
77.00			0.10	
78.00			0.16	
79.00			0.49	
80.00			0.73	
81.00			1.09	
82.00			0.31	
83.00			0.62	
84.00			0.12	
85.00			0.45	
86.00			0.56	
87.00			0.49	
88.00			0.05	
89.00			0.05	
90.00			0.18	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			0.01	
92.00			0.01	
93.00			0.01	
94.00			0.03	
95.00			0.04	
96.00			0.08	
97.00			0.20	
98.00			0.03	
99.00			0.00	
100.00			0.06	
101.00			0.01	
102.00			0.01	
103.00			0.01	
104.00			0.00	
105.00			0.03	
106.00			0.00	
107.00			0.01	
108.00			0.01	
109.00			0.01	
110.00			0.01	
111.00			0.01	
112.00			0.01	
113.00			0.00	
114.00			0.01	
115.00			0.01	
116.00			0.01	
117.00			0.01	
118.00			0.01	
119.00			0.01	
120.00			0.03	
121.00			0.00	
122.00			0.01	
123.00			0.01	
124.00			0.01	
125.00			0.01	
126.00			0.00	
127.00			0.01	
128.00			0.01	
129.00			0.01	
130.00			0.01	
131.00			0.01	
132.00			0.01	
133.00			0.01	
134.00			0.03	
135.00			0.01	
136.00			0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00			0.00	
138.00			0.01	
139.00			0.00	
140.00			0.00	
141.00			0.01	
142.00			0.03	
143.00			0.01	
144.00			0.00	
145.00			0.03	
146.00			0.10	
147.00			0.05	
148.00			0.06	
149.00			0.10	
150.00			0.08	
151.00			0.05	
152.00			0.03	
153.00			0.05	
154.00			0.10	
155.00			0.25	
156.00			0.25	
157.00			0.10	
158.00			0.06	
159.00			0.01	
160.00			0.00	
161.00			0.05	
162.00			0.05	
163.00			0.01	
164.00			0.01	
165.00			0.05	
166.00			0.03	
167.00			0.01	
168.00			0.06	
169.00			0.05	
170.00			0.06	
171.00			0.10	
172.00			0.01	
173.00			0.06	
174.00			0.08	
175.00			0.01	
176.00			0.05	

BOX LOG

HOLE: CH-11-09

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.00	5.35	36	141.45	145.31
2	5.35	9.64	37	145.31	149.35
3	9.64	13.50	38	149.35	153.47
4	13.50	17.22	39	153.47	157.15
5	17.22	21.34	40	157.15	161.40
6	21.34	25.42	41	161.40	165.34
7	25.42	29.54	42	165.34	169.16
8	29.54	33.26	43	169.16	173.40
9	33.26	36.92	44	173.40	176.78
10	36.92	40.92			
11	40.92	44.96			
12	44.96	48.60			
13	48.60	52.23			
14	52.23	56.03			
15	56.03	59.98			
16	59.98	63.71			
17	63.71	67.84			
18	67.84	71.86			
19	71.86	76.12			
20	76.12	79.99			
21	79.99	84.19			
22	84.19	87.77			
23	87.77	91.80			
24	91.80	96.01			
25	96.01	100.40			
26	100.40	104.64			
27	104.64	108.64			
28	108.64	112.78			
29	112.78	116.41			
30	116.41	121.00			
31	121.00	125.20			
32	125.20	129.38			
33	129.38	133.33			
34	133.33	137.36			
35	137.36	141.45			

RAU PROPERTY

ZONE: KATHY

SECTION: _____

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		532668	7117947	1105	277.37

HOLE: KA-11-01

CLAIM: YC68571

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 13.72 (m) out

Drilling dates: August 18 to 20, 2011

Geology logged by: M.R.Dumala

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	54	-50.0	compass	170.69	52.6	-51.3	Ranger
79.25	50.6	-49.8	Ranger	201.17	56.6	-51.9	Ranger
109.73	50.7	-50.3	Ranger	246.89	57.3	-53.1	Ranger
140.21	54.7	-51.4	Ranger	277.00	60.4	-53.4	Ranger

TARGET: Kathy gossan

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	3.05	3.05	OVB	
3.05	70.90	67.85	LST	dolomitized
70.90	112.25	41.35	LST	dolomitized, brecciated
112.25	127.71	15.46	LST	marblized
127.71	129.58	1.87	LST	brecciated, skarn bands
129.58	130.42	0.84	SKN	
130.42	134.94	4.52	LST	marblized
134.94	144.38	9.44	LST	banded
144.38	153.77	9.39	DOL	marblized
153.77	172.34	18.57	LST	marblized
172.34	177.39	5.05	MBL	
177.39	177.97	0.58	QFP	
177.97	276.33	98.36	MBL	includes narrow skarn bands
276.33	277.37	1.04	QFP	

SAMPLES

Numbers: I383625 to I383640
Total: 16
Batch: 30, 31
Certificate: WH11175140, WH11174079, WH11203944
WH11203945

COMMENTS

GEOLOGY LOG

HOLE: KA-11-01

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Pyrrhotite	Arsenopyrite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
0.00	3.05	3.05				OVB																					Overburden, dark brown organic mat and roots above dark grey to brown, muddy to blocky dolomite altered limestone
3.05	70.90	67.85				LST	DOL	Bx										WEA	t	t			Qz	t	Ca	t	Medium to dark grey, variably mottled to brecciated comेतent to muddy slightly weathered weak dolomite altered limestone. Breccia textures range from crackle to tectonic. Tectonic breccia features light grey sub-rounded to sub-angular dolomite clasts surrounded by a darker limestone matrix. Weathering is visible as aorange-yellow to red-brown colouration present on fracture faces. White calcite veinlets are scattered throughout. Visible as isolated vinelets, or as crosscutting veinlets forming crackle brecciated textures trace pyrite and quartz mineralization is present on fracture faces and within calcite veinlets. Trace ostacod fossils are present throughout limestone.
			6.10	10.67	4.57	LST	DOL																Ca	m			dark grey limestone muc
			10.67	13.72	3.05			tBx																			predominate tectonic breccia textures featuring sub-rounded to sub-angular dark-grey dolomite clasts, surrounded by spidery white calcite veinlets.
			14.00	24.80	10.80	LST	DOL		FO	50													Ca	f			as geral description, however region features elongated cavities or vugs following foliation at 50° tca. White calcite veinlets are preferentially orientated at 40-50° following folliation. Veinlets are up to 0.5 cm thick.
									VL	45	0 ms																
			17.54																	ms							single isolated large yellow bronze euhedral pyrite crystal imbedded in dolomite altred limestone
			24.88	25.03	0.15												WEA	m									moderate oxidized rubble. Oxidation appears as red orange colouration on rubble surface.
			26.90	28.43	1.53	LST	DOL		VT	50			w							f			Qz	t	Ca	ms	pyrite mconsists of fine-grained metallic yellow crystals within calcite veinlets and exists predominantly as massive cubic crystals present on fracture faces. Pyrite is associated with calcite crystals and trace quartz crystals. Calcite veinlets are orrientated at 50° tca and are up to 1 cm thick.
			34.35	35.25	0.90	LST	DOL	tbx					w										Ca	s			intense tectonic brecciation. Dark grey elongated, sub-rounded to sub-angular dolomite clasts surrounded by a white calcite matrix

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Pyrrhotite	Arsenopyrite	Other		Other				
																	Type	Intensity				Type	Intensity	Type			Intensity	
			38.13																	ms							small mass of large to medium grained yellow metallic cubic pyrite crystals.	
																											Breccia textures present within dolomite altered limestone, ranging from mBx to cBx textures with increasing depth. Crackle breccia features dark grey dolomite crackle crosscutting each other, surrounding a lighter grey dolomite altered limestone matrix.	
			38.60	43.00	4.40	LST	DOL	Bx					w														alternating dark and light grey bands of weak dolomite altered limestone following foliation. Bands are preferentially orientated at 20° tca	
			48.93	49.57	0.64	LST	DOL		FO	20			w															
			51.58						VL	50	i												Ca	s			white calcite veinlet featuring sub-angular, up to 1.5 cm thick, dark grey dolomite altered limestone. Veinlet is orientated at 50° tca and 4 cm thick.	
			51.82	53.00	1.18	LST	DOL	Bx					w														Crackle breccia textures are present and feature dark grey cracks within a light grey dolomite altered limestone matrix	
			63.02	70.10	7.08	LST	DOL	Bx					w														Strongly brecciated. Breccia textures range from crackle breccia to tectonic breccia. Tectonic breccia consists of light grey sub-rounded to sub-angular clasts surrounded by a light grey dolomite altered limestone matrix.	
																											light to medium grey, variably brecciated, fine grain to medium grain, competent to blocky. Weakly dolomite altered limestone. Breccia textures include solution breccia, crackle breccia and tectonic breccia. Solution breccias are dominant. Calcite matrix is present as regions of veining or isolated veinlets. Calcite veins and veinlets sometimes include large sub-rounded to sub-angular medium grey dolomite altered limestone clasts. Trace pyrite mineralization is present within isolated crystals on fracture faces and some calcite veins as well as single greeny white skarn is present from 80.60 to 83.00 m and features medium grained quartz and pyrite mineralization. no weathering	
70.90	112.25	41.35				LST	DOL	Bx					w							t			Qz	t	Ca	t		solution brecciated, consisting of sub-rounded to sub-angular medium grey dolomite clasts surrounded by white calcite veining. The calcite veining appears to be late
			71.00	77.90	6.90	LST	DOL	Bx	VT				w										Ca	m				Olive green to white weakly dolomite altered limestone skarn. Skarn features mottled pink coloration and translucent sub-rounded to sub-angular quartz clasts surrounded by an opaque creamy white dolomite altered limestone matrix.
			80.77	83.00	2.23	LST	DOL						w							f			Ca	i	Qz	t		

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Pyrrhotite	Arsenopyrite	Other		Other				
																	Type	Intensity				Type	Intensity	Type			Intensity	
																											Skarn colouration resembles rainbow sherbert ice-cream. Mineralization is present with the skarn and features medium grained pyrite and quartz mineraliztion visible on fracture faces and on rock surfaces. Pyrite crystals appear cubic and metallic yellow in colouration. Calcite mineralization is also visible as fine transparent faces on skarn surfaces.	
			90.65	90.90	0.25				VT	20	i												Ca	ms				white calcite veinlet containing sub-angular to sub rounded dark grey dolomite clasts, orrientated at 20° tca
			96.85																w				Ca	t				isolated coarse greined pyrite crystals imbedded within fracture surfaces. Pyrite crystals are yellow and metallic. Trace coarse grained prismatic calcite crystals are present as well.
			101.50	101.70	0.20				VT	30									w				Ca	s				white calcite veinlets featuring a mass of medium grained pyrite crystals located on veinlet apex. Veinlet is preferentially orrientated at 30° tca and is up to 2 cm thick
			101.80	102.47	0.67	LST	DOL	Bx					w															intense solution breccia textures consisting of sub-angular to sub-rounded dark grey dolomite clasts surrounded by a white calcite matrix. Some clasts resemble squares and are up to 6 cm thick
			108.00	112.25	4.25	LST	DOL	Bx	VT	50	0 i		w										Ca	t				solution brecciated and tectonic brecciated textures. Bedding is present as alternating medium to light grey bands of dolomite altered limestone preferentially orrientated at 50° tca. A white calcite veinlet is seen at 109.10 m and orrientated at ° tca, following foliation veinlet is 0.5 cm thick
112.25	127.71	15.46				LST	MBL		FO	50								mbl	s									light grey marblized limestone
			123.12						FO	40																		
			126.50						FO	40																		
			127.71						CN	40																		
127.71	129.58	1.87				LST		Bx																				lower contact sharp and jagged
			128.89	129.03	0.14	SKN			FO	50										m			Cl	i	Di	s		healed limestone breccia, clasts range from 1 mm to 4 cm, round to sub-rounded
			129.03						CN	50																		dark green skarn, sub parallel to foliation in unit above. Sharp contacts, contains sulphides
129.58	130.42	0.84				SKN														w								sharp
130.42	134.94	4.52				MBL	LST											mbl	i									pale green chlorite-diopside skarn, sulphides along contacts, sharp contacts
134.94	144.38	9.44				LST		BN																				strong to intensely marblized limestone
			138.00						FO	25																		dark grey limestone
																												bedding throughout interval, strong-well defined

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Pyrrhotite	Arsenopyrite	Other		Other		
																	Type	Intensity				Type	Intensity	Type	Intensity	
144.38	153.77	9.39				DOL	MBL																			White creamy dolomite marble, weakly fizzes with acid. Similar in appearance to unit seen in Ocelot core
			153.77						CN	30																
153.77	172.34	18.57				LST	MBL										mbl	s								sharp contact
			159.50						BN	30																grey marblized limestone, strong bedding over narrow intervals
			159.20						VN	30	230															narrow intervals
			167.10			SKN																				narrow quartz veins cutting across bedding
			167.87	168.10	0.23	SKN															m					2 cm skarn (same as below)
			168.60														mbl	i								grey tremolite skarn with minor arsenopyrite, upper contact at 30°, lower contact sharp at 50°
172.34	177.39	5.05				MBL																				increased marblization
177.39	177.97	0.58				QFP														w						intense marblization (relic limestone breccia texture and appearance), in places appears as creamy white dolomite marble
177.97	276.33	98.36				MBL			FO	35																felsic dyke (quartz feldspar porphyry), smokey quartz and 2 cm vein. Appears similar to intrusion seen in Rau-SC10-05
			181.00						FO	40																light grey marble with dark (black) dolomite fracture filling along foliation. Two foliation angles, exactly opposite of each other. First follows early cleavage, second less common cuts narrow intervals of creamy marble with black dolomite fracture filling
			186.50						FO	35																
			204.10	204.28	0.18	SKN			FO	40									m		w					fine fractures with black dolomite filling
			212.00						FO	30																Diopside-chlorite skarn with quartz, wavy bands within skarn cutting across foliation
									VN	50	190	3							m			Cl	w			Quartz vein with pyrite +/- chlorite, ~2 mm to 5 mm wide
			212.50			SKN			VN	50									w	t						skarn band mostly quartz+chlorite, perpendicular to core axis
			220.75						FO	40																
			221.00						FO	30																
			226.90						FO	50		20														Creamy dolomite along foliation
									VN	15	190	1							w							1 mm quartz vein with pyrite cutting foliation. Foliation defined by black dolomite fracture/crackle filling
			224.10																							changes to more solid, less foliated, light grey marblized limestone. Predominant unit for remainder of hole.
			251.35						FO	30																start of narrow skarn bands <1 cm, sub parallel to foliation
			276.24						VN	30		4							t							
									VN	30									m	t		Cl	i			lower contact, includes 8 cm skarn band

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Pyrrhotite	Arsenopyrite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
276.33	277.37	1.04				QFP			FO	30																white to light grey quartz-feldspar-porphyry, pale green chlorite patches. Weak foliation visible, marked by chlorite alteration	
277.37						EOH																					

GEOTECHNICAL LOG

HOLE: KA-11-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
0.00	1.52	1.52	0.00	0	0	0	n/a	SW		
1.52	3.05	1.53	0.49	32	0.00	0	VW	SW		
3.05	4.57	1.52	0.33	22	0.00	0	VS	SW		
4.57	6.10	1.53	0.24	16	0.00	0	W	SW		
6.10	7.62	1.52	0.28	18	0.00	0	VW	SW		
7.62	9.14	1.52	0.72	47	0.00	0	VW	SW		
9.14	10.67	1.53	1.38	90	0.00	0	S	SW		
10.67	12.19	1.52	1.38	91	0.89	59	S	SW		
12.19	13.72	1.53	1.52	99	1.43	93	S	SW		
13.72	15.24	1.52	1.21	80	0.65	43	S	SW		
15.24	16.76	1.52	1.35	89	1.01	66	S	SW		
16.76	18.29	1.53	1.28	84	1.08	71	S	SW		
18.29	19.81	1.52	1.52	100	1.52	100	S	SW		
19.81	21.34	1.53	1.16	76	0.71	46	S	SW		
21.34	22.86	1.52	1.23	81	0.53	35	S	SW		
22.86	24.38	1.52	1.23	81	0.38	25	S	SW		
24.38	25.91	1.53	1.12	73	0.44	29	S	SW		
25.91	27.43	1.52	1.52	100	1.35	89	S	SW		
27.43	28.96	1.53	1.16	76	0.36	24	S	SW		
28.96	30.48	1.52	1.43	94	1.00	66	S	SW		
30.48	32.00	1.52	1.30	86	1.12	74	S	SW		
32.00	33.53	1.53	1.07	70	0.27	18	S	SW		
33.53	35.05	1.52	1.24	82	0.74	49	S	SW		
35.05	36.58	1.53	1.19	78	0.43	28	S	SW		
36.58	38.10	1.52	0.84	55	0.27	18	VS	SW		
38.10	39.62	1.52	1.26	83	0.90	59	S	SW		
39.62	41.15	1.53	1.12	73	0.46	30	S	SW		
41.15	42.69	1.54	0.90	58	0.48	31	S	SW		
42.69	44.20	1.51	1.38	91	0.69	46	S	SW		
44.20	45.72	1.52	1.52	100	1.52	100	S	SW		
45.72	47.24	1.52	1.22	80	0.51	34	S	SW		
47.24	48.77	1.53	1.52	99	1.52	99	S	SW		
48.77	50.29	1.52	1.27	84	0.98	64	S	SW		
50.29	51.82	1.53	1.52	99	1.20	78	S	SW		
51.82	53.34	1.52	1.52	100	1.48	97	S	SW		
53.34	54.86	1.52	1.52	100	1.52	100	S	SW		
54.86	56.39	1.53	1.52	99	1.52	99	S	SW		
56.39	57.91	1.52	1.52	100	1.52	100	S	SW		
57.91	59.44	1.53	1.53	100	1.53	100	S	SW		
59.44	60.96	1.52	1.52	100	1.52	100	S	SW		
60.96	62.48	1.52	1.48	97	1.10	72	S	SW		
62.48	64.01	1.53	1.34	88	0.46	30	MS	SW		
64.01	65.53	1.52	1.50	99	1.39	91	S	SW		
65.53	67.06	1.53	1.25	82	0.65	42	S	SW		
67.06	68.58	1.52	1.52	100	1.52	100	S	SW		
68.58	70.10	1.52	1.47	97	1.47	97	S	fr		
70.10	71.63	1.53	1.52	99	1.50	98	MS	fr		
71.63	73.15	1.52	1.42	93	1.42	93	MS	fr		
73.15	74.68	1.53	1.52	99	1.35	88	MS	fr		
74.68	76.20	1.52	1.33	88	1.33	88	S	fr		
76.20	77.72	1.52	1.52	100	1.31	86	MS	fr		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
77.72	79.25	1.53	1.34	88	0.40	26	ms	fr		
79.25	80.77	1.52	1.40	92	0.55	36	s	fr		
80.77	82.30	1.53	1.42	93	1.27	83	s	fr		
82.30	83.82	1.52	1.42	93	0.38	25	s	fr		
83.82	85.34	1.52	1.39	91	1.28	84	s	fr		
85.34	86.87	1.53	1.47	96	1.35	88	s	fr		
86.87	88.39	1.52	1.28	84	1.10	72	s	fr		
88.39	89.92	1.53	1.49	97	1.02	67	s	fr		
89.92	91.44	1.52	1.42	93	1.25	82	s	fr		
91.44	92.96	1.52	1.52	100	1.52	100	s	fr		
92.96	94.49	1.53	1.52	99	1.52	99	s	fr		
94.49	96.01	1.52	1.52	100	1.52	100	s	fr		
96.01	97.54	1.53	1.40	92	1.12	73	s	fr		
97.54	99.06	1.52	1.45	95	0.84	55	s	fr		
99.06	100.58	1.52	1.43	94	1.33	88	s	fr		
100.58	102.11	1.53	1.49	97	1.48	97	s	fr		
102.11	103.63	1.52	1.48	97	1.48	97	s	fr		
103.63	105.16	1.53	1.50	98	1.48	97	s	fr		
105.16	106.68	1.52	1.45	95	1.44	95	s	fr		
106.68	108.20	1.52	1.52	100	1.52	100	s	fr		
108.20	109.73	1.53	1.44	94	1.39	91	s	fr		
109.73	111.25	1.52	1.52	100	1.48	97	s	fr		
111.25	112.78	1.53	1.39	91	1.39	91	s	fr		
112.78	114.30	1.52	1.52	100	1.48	97	s	fr		
114.30	115.82	1.52	1.42	93	1.42	93	ms	fr		
115.82	117.35	1.53	1.51	99	1.30	85	vs	fr		
117.35	118.87	1.52	1.46	96	1.21	80	vs	fr		
118.87	120.40	1.53	1.49	97	1.41	92	vs	fr		
120.40	121.92	1.52	1.47	97	1.42	93	vs	fr		
121.92	123.44	1.52	1.52	100	1.50	99	vs	fr		
123.44	124.97	1.53	1.50	98	1.30	85	s	fr		
124.97	126.49	1.52	1.45	95	1.20	79	s	fr		
126.49	128.02	1.53	1.51	99	1.27	83	s	fr		
128.02	129.54	1.52	1.52	100	1.52	100	s	fr		
129.54	131.06	1.52	1.43	94	1.30	86	ms	fr		
131.06	132.59	1.53	1.53	100	1.37	90	s	fr		
132.59	134.11	1.52	1.41	93	1.29	85	ms	fr		
134.11	135.64	1.53	1.53	100	1.48	97	vs	fr		
135.64	137.16	1.52	1.51	99	1.20	79	s	fr		
137.16	138.68	1.52	1.52	100	1.36	89	s	fr		
138.68	140.21	1.53	1.45	95	1.45	95	s	fr		
140.21	141.73	1.52	1.49	98	1.49	98	vs	fr		
141.73	143.26	1.53	1.51	99	1.40	92	vs	fr		
143.26	144.78	1.52	1.31	86	1.25	82	vs	fr		
144.78	146.30	1.52	1.45	95	1.31	86	vs	fr		
146.30	147.83	1.53	1.34	88	0.99	65	s	fr		
147.83	149.35	1.52	1.30	86	0.93	61	vs	fr		
149.35	150.88	1.53	1.31	86	1.09	71	s	fr		
150.88	152.40	1.52	1.32	87	0.56	37	s	fr		
152.40	153.92	1.52	1.48	97	1.28	84	s	fr		
153.92	155.45	1.53	1.50	98	1.50	98	s	fr		
155.45	156.97	1.52	1.38	91	1.38	91	vs	fr		
156.97	158.50	1.53	1.53	100	1.40	92	vs	fr		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
158.50	160.02	1.52	1.44	95	1.29	85	vs	fr		
160.02	161.54	1.52	1.08	71	0.40	26	vs	fr		
161.54	163.07	1.53	1.25	82	0.72	47	ms	fr		
163.07	164.59	1.52	1.52	100	1.52	100	vs	fr		
164.59	166.12	1.53	1.46	95	1.35	88	s	fr		
166.12	167.64	1.52	1.40	92	1.15	76	vs	fr		
167.64	169.16	1.52	1.48	97	1.48	97	vs	fr		
169.16	170.69	1.53	1.49	97	1.35	88	ms	fr		
170.69	172.21	1.52	1.51	99	1.51	99	vs	fr		
172.21	173.74	1.53	1.02	67	0.50	33	ms	fr		
173.74	175.26	1.52	1.12	74	0.30	20	s	fr		
175.26	176.78	1.52	1.45	95	1.31	86	vs	fr		
176.78	178.31	1.53	1.43	93	1.33	87	ms	fr		
178.31	179.83	1.52	1.52	100	1.25	82	s	fr		
179.83	181.36	1.53	1.40	92	1.36	89	vs	fr		
181.36	182.88	1.52	1.15	76	0.95	63	s	fr		
182.88	184.40	1.52	1.28	84	1.05	69	s	fr		
184.40	185.93	1.53	1.50	98	1.34	88	s	fr		
185.93	187.45	1.52	1.52	100	1.48	97	vs	fr		
187.45	188.98	1.53	1.50	98	1.34	88	ms	fr		
188.98	190.50	1.52	1.49	98	1.49	98	ms	fr		
190.50	192.02	1.52	1.51	99	1.49	98	s	fr		
192.02	193.55	1.53	1.53	100	1.35	88	vs	fr		
193.55	195.07	1.52	1.30	86	1.10	72	vs	fr		
195.07	196.60	1.53	1.52	99	1.50	98	vs	fr		
196.60	198.12	1.52	1.33	87	1.10	72	s	fr		
198.12	199.64	1.52	1.23	81	1.19	78	s	fr		
199.64	201.17	1.53	1.52	99	1.47	96	s	fr		
201.17	202.69	1.52	1.47	97	1.50	99	vs	fr		
202.69	204.22	1.53	1.32	86	1.23	80	s	fr		
204.22	205.74	1.52	1.51	99	1.45	95	s	fr		
205.74	207.26	1.52	1.49	98	1.35	89	s	fr		
207.26	208.79	1.53	1.40	92	1.38	90	s	fr		
208.79	210.31	1.52	1.44	95	1.30	86	s	fr		
210.31	211.84	1.53	1.48	97	1.31	86	s	fr		
211.84	213.36	1.52	1.43	94	1.08	71	ms	fr		
213.36	214.88	1.52	1.51	99	1.31	86	ms	fr		
214.88	216.41	1.53	1.35	88	0.95	62	ms	fr		
216.41	217.93	1.52	1.46	96	1.34	88	ms	fr		
217.93	219.46	1.53	1.45	95	1.45	95	ms	fr		
219.46	220.98	1.52	1.52	100	1.52	100	ms	fr		
220.98	222.50	1.52	1.43	94	1.43	94	ms	fr		
222.50	224.03	1.53	1.52	99	1.52	99	ms	fr		
224.03	225.55	1.52	1.47	97	1.47	97	ms	fr		
225.55	227.08	1.53	1.52	99	1.52	99	s	fr		
227.08	228.60	1.52	1.45	95	1.45	95	s	fr		
228.60	230.12	1.52	1.52	100	1.49	98	s	fr		
230.12	231.65	1.53	1.46	95	1.46	95	s	fr		
231.65	232.87	1.22	1.30	107	1.30	107	ms	fr		
232.87	234.70	1.83	1.20	66	0.60	33	ms	fr		
234.70	236.22	1.52	1.19	78	0.53	35	s	fr		
236.22	237.44	1.22	1.46	120	1.30	107	s	fr		
237.44	239.27	1.83	1.52	83	1.52	83	s	fr		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
239.27	240.79	1.52	1.45	95	1.45	95	s	fr		
240.79	242.32	1.53	1.52	99	1.52	99	s	fr		
242.32	243.84	1.52	1.35	89	1.32	87	ms	fr		
243.84	245.36	1.52	1.30	86	1.30	86	ms	fr		
245.36	246.89	1.53	1.52	99	1.40	92	ms	fr		
246.89	248.41	1.52	1.52	100	1.52	100	ms	fr		
248.41	249.94	1.53	1.52	99	1.41	92	ms	fr		
249.94	251.46	1.52	1.48	97	1.48	97	ms	fr		
251.46	252.98	1.52	1.34	88	0.60	39	ms	fr		
252.98	254.51	1.53	1.40	92	1.35	88	ms	fr		
254.51	256.03	1.52	1.51	99	1.36	89	s	fr		
256.03	257.56	1.53	1.43	93	1.38	90	s	fr		
257.56	259.08	1.52	1.41	93	0.15	10	s	fr		
259.08	260.60	1.52	1.28	84	1.28	84	s	fr		
260.60	262.13	1.53	1.52	99	1.52	99	s	fr		
262.13	263.65	1.52	1.51	99	1.15	76	ms	fr		
263.65	265.18	1.53	1.51	99	1.32	86	s	fr		
265.18	266.70	1.52	1.51	99	0.97	64	s	fr		
266.70	268.22	1.52	1.52	100	1.23	81	s	fr		
268.22	269.75	1.53	1.50	98	0.30	20	ms	fr		
269.75	271.27	1.52	1.44	95	1.09	72	ms	fr		
271.27	272.80	1.53	1.52	99	1.52	99	ms	fr		
272.80	274.32	1.52	1.50	99	1.23	81	ms	fr		
274.32	275.84	1.52	1.40	92	1.35	89	ms	fr		
275.84	277.37	1.53	1.52	99	1.52	99	ms	fr		
	EOH									

SAMPLE LOG

HOLE: KA-11-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
79.25	80.77	1.52	1.40		I383625	30	<0.01	0.35	34	139	
80.77	83.00	2.23	2.18		I383626	30	0.03	0.53	55	690	
83.00	85.34	2.34	2.34		I383627	30	0.12	0.10	10	135	
125.71	127.71	2.00	1.92		I383628	30	<0.01	0.04	5	14	
127.71	129.58	1.87	1.87		I383629	30	<0.01	0.07	5	68	
129.58	130.42	84.00	0.84		I383630	30	<0.01	0.11	7	209	
130.42	132.59	2.17	2.17		I383631	30	<0.01	0.02	2	4	
167.00	168.60	1.60	1.60		I383632	31	<0.01	0.03	2	112	
177.39	177.97	0.58			I383633	31	<0.01	0.10	8	16	
					I383634	31	<0.01	0.01	1	16	blank
203.91	204.41	0.50	0.50		I383635	31	<0.01	0.25	13	139	
212.00	212.65	0.65	0.65		I383636	31	<0.01	0.11	5	43	
212.00	212.65	0.65	0.65		I383637	31	<0.01	0.14	8	42	DUPLICATE
273.60	276.33	2.58	2.58		I383638	31	<0.01	0.05	2	64	
276.33	277.37	1.04	1.04		I383639	31	<0.01	0.05	35	16	
					I383640	31	0.43	1.47	105	444	standard rss-5

DENSITY LOG

HOLE: KA-11-01

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: KA-11-01

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			n/a	
2.00			n/a	
3.00			n/a	
4.00			n/a	
5.00			n/a	
6.00			n/a	
7.00			0.65	
8.00			0.50	
9.00			1.22	
10.00			0.78	
11.00			0.01	
12.00			0.08	
13.00			0.10	
14.00			0.08	
15.00			0.23	
16.00			0.01	
17.00			0.01	
18.00			0.03	
19.00			0.03	
20.00			0.01	
21.00			0.01	
22.00			0.03	
23.00			0.31	
24.00			0.05	
25.00			0.36	
26.00			0.25	
27.00			0.18	
28.00			0.03	
29.00			0.05	
30.00			0.03	
31.00			0.01	
32.00			0.03	
33.00			0.16	
34.00			0.26	
35.00			0.03	
36.00			0.05	
37.00			0.00	
38.00			0.13	
39.00			0.01	
40.00			0.06	
41.00			0.01	
42.00			0.01	
43.00			0.03	
44.00			0.01	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.01	
46.00			0.01	
47.00			0.03	
48.00			0.01	
49.00			0.01	
50.00			0.01	
51.00			0.03	
52.00			0.01	
53.00			0.01	
54.00			0.03	
55.00			0.05	
56.00			0.13	
57.00			0.03	
58.00			0.01	
59.00			0.03	
60.00			0.01	
61.00			0.01	
62.00			0.03	
63.00			0.18	
64.00			0.03	
65.00			0.03	
66.00			0.06	
67.00			0.00	
68.00			0.00	
69.00			0.01	
70.00			0.01	
71.00			0.01	
72.00			0.01	
73.00			0.01	
74.00			0.06	
75.00			0.03	
76.00			0.01	
77.00			0.05	
78.00			0.15	
79.00			0.11	
80.00			0.20	
81.00			0.06	
82.00			0.06	
83.00			0.26	
84.00			0.15	
85.00			0.01	
86.00			0.31	
87.00			0.05	
88.00			0.08	
89.00			0.10	
90.00			0.01	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			0.01	
92.00			0.11	
93.00			0.05	
94.00			0.03	
95.00			0.03	
96.00			0.06	
97.00			0.08	
98.00			0.00	
99.00			0.06	
100.00			0.50	
101.00			0.01	
102.00			0.01	
103.00			0.00	
104.00			0.30	
105.00			0.05	
106.00			0.03	
107.00			0.68	
108.00			0.23	
109.00			0.01	
110.00			0.01	
111.00			0.18	
112.00			0.05	
113.00			0.03	
114.00			0.03	
115.00			0.03	
116.00			0.01	
117.00			0.00	
118.00			0.03	
119.00			0.25	
120.00			0.15	
121.00			0.08	
122.00			0.03	
123.00			0.00	
124.00			0.25	
125.00			0.08	
126.00			0.01	
127.00			0.08	
128.00			0.05	
129.00			1.10	
130.00			0.31	
131.00			0.25	
132.00			0.26	
133.00			0.10	
134.00			0.05	
135.00			0.03	
136.00			0.01	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00			0.03	
138.00			0.01	
139.00			0.05	
140.00			0.05	
141.00			0.09	
142.00			0.26	
143.00			0.10	
144.00			0.20	
145.00			0.00	
146.00			0.00	
147.00			0.05	
148.00			0.06	
149.00			0.01	
150.00			0.01	
151.00			0.05	
152.00			0.03	
153.00			0.03	
154.00			0.06	
155.00			0.00	
156.00			0.57	
157.00			0.48	
158.00			0.01	
159.00			0.01	
160.00			0.01	
161.00			0.00	
162.00			0.00	
163.00			0.01	
164.00			0.33	
165.00			0.36	
166.00			0.10	
167.00			0.08	
168.00			0.45	
169.00			0.26	
170.00			0.00	
171.00			1.20	
172.00			0.16	
173.00			0.00	
174.00			0.00	
175.00			0.01	
176.00			0.18	
177.00			0.97	
178.00			0.06	
179.00			0.21	
180.00			0.20	
181.00			0.16	
182.00			0.18	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
183.00			0.06	
184.00			0.01	
185.00			0.01	
186.00			0.16	
187.00			0.03	
188.00			0.01	
189.00			0.00	
190.00			0.23	
191.00			0.63	
192.00			0.03	
193.00			0.06	
194.00			0.06	
195.00			0.01	
196.00			0.00	
197.00			0.01	
198.00			0.03	
199.00			0.08	
200.00			0.01	
201.00			0.00	
202.00			0.01	
203.00			0.36	
204.00			0.05	
205.00			0.05	
206.00			0.01	
207.00			0.10	
208.00			0.05	
209.00			0.01	
210.00			0.01	
211.00			0.01	
212.00			0.05	
213.00			0.01	
214.00			0.15	
215.00			0.03	
216.00			0.05	
217.00			0.05	
218.00			0.10	
219.00			0.45	
220.00			0.18	
221.00			1.04	
222.00			0.06	
223.00			0.03	
224.00			0.03	
225.00			0.03	
226.00			0.03	
227.00			0.23	
228.00			0.38	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
229.00			0.03	
230.00			0.18	
231.00			0.01	
232.00			0.10	
233.00			0.03	
234.00			0.05	
235.00			0.05	
236.00			0.06	
237.00			0.36	
238.00			0.03	
239.00			0.01	
240.00			0.05	
241.00			0.01	
242.00			0.11	
243.00			0.08	
244.00			0.05	
245.00			0.43	
246.00			0.16	
247.00			0.06	
248.00			0.26	
249.00			0.06	
250.00			0.47	
251.00			1.17	
252.00			0.26	
253.00			0.13	
254.00			0.05	
255.00			0.33	
256.00			0.08	
257.00			0.13	
258.00			0.21	
259.00			0.20	
260.00			0.13	
261.00			0.10	
262.00			0.13	
263.00			0.15	
264.00			0.82	
265.00			0.45	
266.00			0.35	
267.00			0.06	
268.00			0.06	
269.00			0.13	
270.00			0.03	
271.00			0.03	
272.00			0.08	
273.00			0.36	
274.00			0.36	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
275.00			0.16	
276.00			0.06	
277.00			0.18	

BOX LOG

HOLE: KA-11-01

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.00	10.32	36	149.85	153.58
2	10.32	14.17	37	153.58	157.62
3	14.17	18.29	38	157.62	161.72
4	18.29	22.35	39	161.72	165.75
5	22.35	26.35	40	165.75	169.79
6	26.35	30.27	41	169.79	173.53
7	30.27	34.35	42	173.53	177.36
8	34.35	38.60	43	177.36	181.66
9	38.60	43.00	44	181.66	185.93
10	43.00	46.90	45	185.93	189.74
11	46.90	51.05	46	189.74	193.89
12	51.05	54.86	47	193.89	198.00
13	54.86	58.83	48	198.00	202.12
14	58.83	62.88	49	202.12	206.23
15	62.88	66.89	50	206.23	210.31
16	66.89	70.90	51	210.31	214.52
17	70.90	74.93	52	214.52	218.74
18	74.93	79.19	53	218.74	223.05
19	79.19	83.15	54	223.05	227.08
20	83.15	87.17	55	227.08	231.45
21	87.17	91.44	56	231.45	235.47
22	91.44	95.62	57	235.47	239.44
23	95.62	99.72	58	239.44	243.84
24	99.72	103.87	59	243.84	248.27
25	103.87	108.00	60	248.27	252.40
26	108.00	112.25	61	252.40	256.65
27	112.25	116.45	62	256.65	260.83
28	116.45	120.77	63	260.83	264.62
29	120.77	124.97	64	264.62	268.22
30	124.97	129.24	65	268.22	272.44
31	129.24	133.43	66	272.44	276.62
32	133.43	137.54	67	276.62	277.37
33	137.54	141.73			
34	141.73	146.17			
35	146.17	149.85			

GEOTECHNICAL LOG

HOLE: KA-11-02

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
2.45	3.05	0.60	0.21	35	0	0	EW	MW		
3.05	4.57	1.52	0.81	53	0.20	13	S	SW		
4.57	6.10	1.53	0.86	56	0.44	29	S	MW		
6.10	7.62	1.52	0.92	61	0.11	7	S	MW		
7.62	9.14	1.52	0.73	48	0.11	7	S	MW		
9.14	10.67	1.53	0.91	59	0.46	30	S	SW		
10.67	12.19	1.52	0.70	46	0.23	15	S	SW		
12.19	13.72	1.53	0.92	60	0.27	18	VS	SW		
13.72	15.24	1.52	0.89	59	0.52	34	S	SW		
15.24	16.76	1.52	0.12	8	0.00	0	S	SW		
16.76	18.29	1.53	1.08	71	0.81	53	S	SW		
18.29	19.81	1.52	0.73	48	0.42	28	S	SW		
19.81	21.34	1.53	0.35	23	0.00	0	S	MW		
21.34	22.86	1.52	0.68	45	0.15	10	MS	MW		
22.86	24.38	1.52	0.64	42	0.11	7	MS	MW		
24.38	25.91	1.53	0.84	55	0.56	37	MS	SW		
25.91	27.43	1.52	1.06	70	0.70	46	S	SW		
27.43	28.96	1.53	0.93	61	0.51	33	S	SW		
28.96	30.48	1.52	1.13	74	0.79	52	S	SW		
30.48	32.00	1.52	1.24	82	0.81	53	VS	SW		
32.00	33.53	1.53	0.90	59	0.18	12	VS	SW		
33.53	35.05	1.52	0.40	26	0.10	7	VS	SW		
35.05	36.58	1.53	0.72	47	0.38	25	VS	SW		
36.58	38.10	1.52	0.48	32	0.00	0	VS	SW		
38.10	39.62	1.52	0.13	9	0.00	0	VS	SW		
39.62	41.15	1.53	0.89	58	0.35	23	S	SW		
41.15	42.67	1.52	0.09	6	0.00	0	S	SW		
42.67	44.20	1.53	0.90	59	0.18	12	MS	SW		
44.20	45.72	1.52	0.95	63	0.40	26	S	SW		
45.72	47.24	1.52	0.61	40	0.12	8	MS	SW		
47.24	48.77	1.53	0.96	63	0.30	20	W	SW		
48.77	50.29	1.52	0.59	39	0.11	7	MS	SW		
50.29	51.82	1.53	0.73	48	0.30	20	S	SW		
51.82	53.34	1.52	0.89	59	0.62	41	S	SW		
53.34	54.86	1.52	1.20	79	1.04	68	S	SW		
54.86	56.39	1.53	1.21	79	0.79	52	S	SW		
56.39	57.91	1.52	1.05	69	0.37	24	S	SW		
57.91	59.44	1.53	1.14	75	0.95	62	VS	SW		
59.44	60.96	1.52	0.61	40	0.22	14	VS	SW		
60.96	62.48	1.52	0.12	8	0.00	0	W	SW		
62.48	64.01	1.53	1.05	69	0.51	33	S	SW		
64.01	65.53	1.52	1.30	86	1.22	80	S	SW		
65.53	67.06	1.53	1.34	88	1.27	83	VS	SW		
67.06	68.58	1.52	1.25	82	0.96	63	S	SW		
68.58	70.10	1.52	1.18	78	1.01	66	S	SW		
70.10	71.63	1.53	0.92	60	0.70	46	S	SW		
71.63	73.15	1.52	1.21	80	0.54	36	VS	SW		
73.15	74.68	1.53	1.34	88	1.20	78	VS	SW		
74.68	76.20	1.52	1.35	89	0.94	62	S	SW		
76.20	77.72	1.52	1.24	82	0.67	44	S	SW		
77.72	79.25	1.53	1.13	74	0.71	46	S	SW		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
79.25	80.77	1.52	1.20	79	0.74	49	S	SW		
80.77	82.30	1.53	1.15	75	0.46	30	S	SW		
82.30	83.82	1.52	1.27	84	1.11	73	S	SW		
83.82	85.34	1.52	1.32	87	1.21	80	VS	SW		
85.34	86.87	1.53	1.38	90	0.79	52	VS	SW		
86.87	88.39	1.52	1.26	83	1.10	72	S	SW		
88.39	89.92	1.53	0.90	59	0.26	17	MS	SW		
89.92	91.44	1.52	1.11	73	0.23	15	MS	SW		
91.44	92.96	1.52	1.21	80	0.59	39	S	SW		
92.96	94.49	1.53	1.42	93	1.12	73	S	SW		
94.49	96.01	1.52	1.45	95	1.04	68	MS	SW		
96.01	97.54	1.53	1.48	97	0.70	46	MS	SW		
97.54	99.06	1.52	0.70	46	0.28	18	MS	SW		
99.06	100.58	1.52	1.38	91	1.11	73	MS	SW		
100.58	102.11	1.53	1.27	83	0.60	39	S	SW		
102.11	103.63	1.52	0.96	63	0.23	15	S	SW		
103.63	105.16	1.53	1.38	90	1.13	74	S	SW		
105.16	106.68	1.52	1.20	79	0.85	56	S	SW		
106.68	108.20	1.52	1.50	99	1.47	97	VS	SW		
108.20	109.73	1.53	1.14	75	0.47	31	VS	SW		
109.73	111.25	1.52	1.51	99	1.40	92	VS	SW		
111.25	112.78	1.53	1.33	87	0.52	34	VS	SW		
112.78	114.30	1.52	1.34	88	1.30	86	VS	SW		
114.30	115.82	1.52	1.11	73	0.42	28	VS	SW		
115.82	117.35	1.53	0.84	55	0.32	21	VS	SW		
117.35	118.87	1.52	1.29	85	0.55	36	VS	SW		
118.87	120.40	1.53	1.32	86	0.82	54	S	SW		
120.40	121.92	1.52	1.15	76	0.43	28	S	SW		
121.92	123.44	1.52	1.21	80	0.00	0	S	SW		
123.44	124.97	1.53	1.29	84	0.86	56	S	SW		
124.97	126.49	1.52	1.40	92	1.04	68	S	SW		
126.49	128.02	1.53	1.35	88	0.62	41	S	SW		
128.02	129.54	1.52	1.44	95	1.16	76	S	SW		
129.54	131.06	1.52	1.42	93	0.78	51	S	SW		
131.06	132.59	1.53	1.51	99	1.22	80	S	SW		
132.59	134.11	1.52	1.25	82	1.05	69	S	SW		
134.11	135.64	1.53	1.51	99	1.41	92	VS	SW		
135.64	137.16	1.52	1.42	93	1.30	86	VS	SW		
137.16	138.68	1.52	1.52	100	1.32	87	S	SW		
138.68	140.21	1.53	1.44	94	1.12	73	S	SW		
140.21	141.73	1.52	1.48	97	0.86	57	S	SW		
141.73	143.26	1.53	1.29	84	1.02	67	S	SW		
143.26	144.78	1.52	1.51	99	1.28	84	S	SW		
144.78	146.30	1.52	1.31	86	1.04	68	S	SW		
146.30	147.83	1.53	1.48	97	1.44	94	S	SW		
147.83	149.35	1.52	1.20	79	0.99	65	S	SW		
149.35	150.88	1.53	1.46	95	1.20	78	S	FR		
150.88	152.40	1.52	1.49	98	1.49	98	S	FR		
152.40	153.92	1.52	1.52	100	1.52	100	S	FR		
153.92	155.45	1.53	1.40	92	1.40	92	S	FR		
155.45	156.97	1.52	1.51	99	1.18	78	S	FR		
156.97	158.50	1.53	1.50	98	1.41	92	S	FR		
158.50	160.02	1.52	1.46	96	1.45	95	S	FR		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
160.02	161.54	1.52	1.46	96	1.36	89	S	FR		
161.54	163.07	1.53	1.29	84	0.14	9	S	FR		
163.07	164.59	1.52	1.10	72	0.54	36	S	FR		
164.59	166.12	1.53	1.44	94	1.10	72	S	FR		
166.12	167.64	1.52	1.47	97	1.44	95	S	FR		
167.64	169.16	1.52	1.52	100	1.52	100	S	FR		
169.16	170.69	1.53	1.40	92	1.26	82	S	FR		
170.69	172.21	1.52	1.37	90	1.28	84	S	FR		
172.21	173.74	1.53	1.26	82	0.88	58	S	FR		
173.74	175.26	1.52	1.32	87	0.98	64	S	FR		
175.26	176.78	1.52	1.39	91	1.07	70	S	FR		
176.78	178.31	1.53	1.47	96	1.19	78	S	FR		
178.31	179.83	1.52	1.24	82	0.53	35	S	FR		
179.83	181.36	1.53	1.36	89	1.01	66	S	FR		
181.36	182.88	1.52	1.49	98	1.39	91	S	FR		
182.88	184.40	1.52	1.44	95	1.22	80	S	FR		
184.40	185.93	1.53	1.41	92	1.32	86	S	FR		
185.93	187.45	1.52	1.52	100	1.47	97	VS	FR		
187.45	188.98	1.53	1.52	99	0.95	62	VS	FR		
188.98	190.50	1.52	1.47	97	0.90	59	VS	FR		
190.50	192.02	1.52	1.52	100	1.52	100	VS	FR		
192.02	193.55	1.53	1.42	93	1.34	88	VS	FR		
193.55	195.07	1.52	1.52	100	1.24	82	VS	FR		
195.07	196.60	1.53	1.51	99	1.49	97	VS	FR		
196.60	198.12	1.52	1.50	99	1.29	85	S	FR		
198.12	199.64	1.52	1.51	99	1.51	99	S	FR		
199.64	201.17	1.53	1.53	100	1.50	98	VS	FR		
201.17	202.69	1.52	1.52	100	1.49	98	MS	FR		
202.69	204.22	1.53	1.47	96	1.47	96	MS	FR		
204.22	205.74	1.52	1.45	95	1.45	95	MS	FR		
205.74	207.26	1.52	1.52	100	1.46	96	S	FR		
207.26	208.79	1.53	1.46	95	1.30	85	S	FR		
208.79	210.31	1.52	1.45	95	1.23	81	S	FR		
210.31	211.84	1.53	1.50	98	1.35	88	S	FR		
211.84	213.36	1.52	1.32	87	1.17	77	S	FR		
213.36	214.88	1.52	1.50	99	1.25	82	S	FR		
214.88	216.41	1.53	1.38	90	1.01	66	S	FR		

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		518485	7121656	1104	271.28

ZONE: NOW

SECTION: _____

HOLE: NW-11-04

CLAIM: YC32305

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 12.19 (m) out

Drilling dates: July 11 to 15, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	45	-50.0	compass	179.83	48.0	-49.5	Ranger
88.39	44.8	-50.2	Ranger	210.31	48.1	-49.3	Ranger
118.87	47.3	-49.8	Ranger	240.79	47.4	-48.5	Ranger
149.35	48.0	-49.7	Ranger	271.00	47.7	-47.5	Ranger

TARGET: _____

[illegible]

SAMPLES
Numbers: I383092-I383187
Total: <u>115</u>
Batch: <u>16, 17, 18, 19</u>
Certificate: WH11137306, WH11137305, WH11137303
WH11141979

COMMENTS	

GEOLOGY LOG

HOLE: NW-11-04

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Oxide	Clay	Other		Pyrite	Arsenopyrite	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
0.00	1.06	1.06				OVB																				Casing drilled. No recovery	
1.06	13.72	1.06				LST	DOL																			Medium to dark grey, Fine-grained, intensely dolomite-altered limestone, with moderate oxide weathering. Core is blocky to rubbly, with 1mm dolomite veinlets at 11.45m and 12.45m.	
13.72	27.68	13.96																								White to orange-brown, fine-grained, extremely oxidized, intensely dolomite-altered limestone. Weathering occurs throughout, coloring limestone to orange-brown, with periodic less-weathered regions. Core is sandy to competent.	
		22.60	23.40	0.80									i													Intense silica alteration	
		23.40	24.70	1.30															t		As	t				Trace fine-grained pyrite and arsenopyrite mineralization in blebs up to 5mm wide.	
27.68	29.36	1.68				LST	DOL																			Light grey-green to orange-brown, fine-grained, intensely dolomite-altered limestone with moderately strong coarse-grained silica alteration, intense arsenic alteration, and intense weathering. Weatheing is orange-brown, and arsenic alteration is green. Core is sandy to rubbly.	
29.36	51.38	22.02				LST	DOL							t												Light grey to red-brown, fine-grained, intensely dolomite-altered limestone, with intermitent regions of competent, moderately-weather core, and sandy, extremely-weathered core. Weathering is light orange-brown to dark red-brown. Trace silica alteration appears as coarse-grained quartz mineralization. In regions of competent, moderately weathered core there is trace fine-grained pyrite mineralization in blebs up to 10mm wide. In extremely weathered, rubbly sections, core faces have trace, dark peacock to black staining.	
51.38	53.61	2.23				SHL												Chl	t							Medium grey to dark red-brown, extremely weathered shale, with trace fine-grained mica (chlorite) alteration, and trace black, hard, organic looking pebbles in shale (anthrocite?). Core is sandy to rubbly.	
53.61	56.39	2.78				SHL																				Black shale with moderate orange weathering. Core is muddy to blocky.	
56.39	58.98	2.59				SHL												Chl	t							Medium grey-brown moderately weathered shale with trace chlorite alteration. Intermittent grey to brown coloration changes at 90 to core axis. Core is muddy to blocky.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Oxide	Clay	Other		Pyrite	Arsenopyrite	Sphalerite	Other		Other		
																	Type	Intensity				Type	Intensity	Type	Intensity	
58.98	61.66	2.68				LST	DOL																			Dark grey to black, fine-grain, extremely weathered intensely dolomite-altered limestone. Intermittent red-brown patches of oxidation weathering. Core is muddy to rubbly.
61.66	63.10	1.44				LST	DOL																			Orange-grey, fine-grained, extremely weathered dolomite-altered limestone. Core is muddy to blocky.
63.10	66.35	3.25				LST	DOL													t						Dark grey to orange-brown fine-grained, intensely dolomite-altered limestone. Highly weathered with intense red-brown oxidation. Trace, fine-grained pyrite mineralization following veinlets of weathered calcite.
									VL	70		15														Weathered calcite veinlets at 70 to core axis (no bedding), with a density of 15/m.
66.35	70.10	3.75				LST	DOL							t					t							Dark grey, fine to medium-grained, moderately weathered, intensely dolomite-altered limestone. Red-brown oxidation on fracture faces, trace medium-grained silica alteration, and trace fine-grained pyrite mineralization on weathered surfaces and in veinlets. No bedding. Core is competent.
									VL	35		8														A veinlets of weathered dolomite at 35 to core axis with a density of 8/m
									VL	50		5														B veinlets of weathered dolomite at 50 to core axis and at 180-200° to A veinlets, with a density of 5/m. A veinlets offset B veinlets.
70.10	70.28	0.18				LST	DOL																			Medium orange-brown, muddy, extremely weathered, fine-grained intensely dolomite-altered limestone.
70.28	99.06	28.78				LST	DOL																			Light to dark grey, fine to medium-grained, intensely dolomite altered limestone. Slightly to highly weathered. Weathering is green-orange to red-brown and occurs on fracture faces, rubble and periodically on limestone. Trace fine-grained arsenopyrite mineralization in limestone and trace fine to medium-grained pyrite mineralization in limestone, dolomite veinlets and on fracture faces. Trace light to dark quartz mineralization on fracture faces. Light/dark grey limestone often separated by silica and dolomite veinlets or at same orientation as veinlets. No bedding. Core is rubbly to competent with trace pyrrhotite.
																										A veinlets of quartz and dolomite at 20-40° to core axis, 5/m
																										B veinlets of quartz and dolomite at 50-60° to core axis, 180-200° to A veinlets, 5/m

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Oxide	Clay	Other		Pyrite	Arsenopyrite	Sphalerite	Other		Other				
																	Type	Intensity				Type	Intensity	Type			Intensity	
			75.83	76.20	0.37																					Muddy, orange-brown, extremely weathered section.		
			76.20	77.26	1.06																					Stongly weathered, grey to red-brown, blocky section.		
			73.87	80.56	6.69																					Strongly weathered, section as above		
			81.74	82.13	0.39																					Intensely weathered, red-brown, rubbly section		
99.06	104.50	5.44				LST	DOL													t							Medium grey, fine to medium-grained, moderately weathered, intensely dolomite altered limestone. Fine-grained pyrite mineralization in limestone. Core is rubbly to blocky.	
																											Medium to dark grey, fine to medium grained, intensely dolomite altered limestone.Trace orange-green weathering on fracture faces. Trace fine-grained pyrite mineralization in limestone and in dolomite veinlets. No bedding. Veinlets at 40-80 to core axis, with no dominant orientation occur very densely. Core is blocky to competent with periodic muddy patches <10cm across.	
104.50	115.04	10.54																		t								
115.04	117.35	2.31				LST	DOL						i							t							Medium grey to black, fine-grained dolomite altered limestone with trace pyrite mineralization. Core is muddy to rubbly.	
117.35	122.49	5.14				LST	DOL						i							t							Light to medium grey fine to medium grained dolomite altered limestone with trace pyrite mineralization. Core is rubbly to blocky.	
																											Light to medium grey with a greenish hue, fine to medium-grained intensely dolomite altered limestone. Trace fine to coarse-grained pyrite mineralization disseminated through limestone and calcite veinlets and in blebs up to 30mm wide. Trace fine-grained arsenopyrite mineralization. Green hue from fine-grained, soft, green crystals which do not fizz. Core is blocky to competent. No bedding.	
122.49	151.84	29.35				LST	DOL						i							t								Dolomite veinlets at 30 to 50 to core axis, 2/m
									VNL	40		2															1 quartz vein at 40 to core axis, 8cm wide, with trace graphite mineralization.	
			126.00						VN	40															Gr	t		Light grey-green muddy section with orange oxidation and trace medium-grained pyrite mineralization.
			132.36	132.59	0.23																							
			141.62											t												x	Silica alteration, with fine-grained, soft green mineralization in the silica.	
151.84	162.50	10.66				SHL			LA	40			t					Gr	i								Dark grey to black shale with trace dolomite alteration, and intense graphite alteration along lamination. Core is sandy to rubbly. Laminations at 40 to core axis. No bedding. Veinlets follow laminations.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Oxide	Clay	Other		Pyrite	Arsenopyrite	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
									VNL	40	0	50															1 to 2 mm veinlets of brittle, translucent mineral. Softer than a metal nail, does not fizz. 50/m.
		151.84																								x	Fine-grained sphalerite mineralization
162.50	164.59	2.09				SHL	DOL													i							Medium grey fine grained trace dolomite-alterec shale with intense fine-grained pyrite mineralization in laminated bedding and fine-grained to medium-grained pyrite mineralization disseminated throughout.
164.59	177.90	13.31				LST	DOL						t							i							Light to medium grey, fine to coarse-grained intensely dolomite-altered, trace silica-altered limestone. Minimal fizz with 30% HCl. Intense fine to coarse-grained pyrite mineralization disseminated throughout limestone, and in one massive deposit. Possibly trace fine-grained arsenopyrite mineralization. Trace fine-grained soft green mineralization. Core is competent.
			170.40																	i							Massive fine to coarse-grained pyrite mineralization 10 cm wide.
177.90	188.98	11.08				LST	DOL						t							i							Medium grey-green to dark grey fine to coarse grained intensely dolomite-altered, trace silica-altered limestone, with intense fine to medium-grained disseminated pyrite mineralization, and intense fine-grained soft, green mineralization. Dolomite is periodically altered to light brown (ankerite?). Core is muddy to rubbly
									FO	45																	Foliation at 45 to core axis
188.98	197.00	8.02				LST	DOL						t							t							Medium grey-green, fine-grained, intensely dolomite altered, trace silica-altered limestone with trace pyrite mineralization disseminated throughout. Core is muddy and rubbly to blocky.
			189.28																	i							5cm wide massive pyrite mineralization
197.00	240.85	43.85				SKN																					Medium green, fine-grained skarn with intense calcite alteration in veinlets and in calcification of unit (fizzes with 10% acid in places). Trace pyrite mineralization disseminated throughout. Core is rubbly to blocky with some muddy sections.
			208.40	208.97	0.57																						White, muddy, clay altered, calcic section with moderately stong hornblende mineralization.
									BD	45																	Bedding is at 40-50 tca.
									VL	30	180	2															Calcite veinlets at 20-40 to core axis, 180 to bedding, with a density of 2/m.
			219.70						VL	40	90																1 Quartz veinlet at 40 to core axis, 90 to bedding.
240.85	253.20	12.35				LST	DOL																				Light grey, fine-grained, intensely dolomite-alterec limestone, with trace pyrite mineralization. Corei s rubbly to competent.

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION						
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Oxide	Clay	Other		Pyrite	Arsenopyrite			Sphalerite	Other		Type	Other	
																	Type	Intensity						Type	Intensity		Type	Intensity
									VL	40		3															Calcite veinlets at 30-50 to core axis, 3/r	
253.20	261.12	7.92				LST	DOL																				Medium grey, medium-grained, intensely dolomite altered limestone with strong marble alteration. Speckled look.	
261.12	262.85	1.73				LST	DOL																				Green and white, coarse-grained, intensely dolomite-altered limestone with strong marble alteration. Trace medium-grained pyrite mineralization in blebs up to 2cm wide, and in dolomite veinlets.	
									VL	30		6															Dolomite veinlets at 30 to core axis, with a density o 6/m.	
																											Massive coarse-grained pyrite mineralization, 6cm wide, contacting limestone at 30 to core axis, and adjacent to a rubbly quartz veinlet at 30 to core axis, 3cm wide. Pyrite likely from veinlet, but too rubbly to tell.	
262.85	271.28	8.43				LST	DOL																				Medium grey, medium-grained, intensely dolomite-altered limestone with weak marble alteration. Core is blocky to rubbly with a speckled look.	
271.28						EOH																						

GEOTECHNICAL LOG

HOLE: NW-11-04

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
1.06	1.52	0.46	0.32	70	0	0	W	SW	GLE1 2.5/W	
1.52	3.05	1.53	0.16	10	0.00	0	W	SW	GLE1 2.5/W	
3.05	4.57	1.52	0.06	4	0.00	0	W	SW	2.5Y 6/1	
4.57	6.10	1.53	0.07	5	0.00	0	W	SW	2.5Y 4/1	
6.10	7.62	1.52	0.10	7	0.00	0	W	SW	5Y 5/1	
7.62	9.14	1.52	0.07	5	0.00	0	W	SW	5Y 5/1	
9.14	10.67	1.53	0.40	26	0.00	0	W	SW	2.5Y 4/1	
10.67	12.19	1.52	0.99	65	0.42	28	MS	SW	GLE1 3/W	
12.19	13.72	1.53	0.93	61	0.00	0	W	SW	5Y 3/1	
13.72	15.24	1.52	1.01	66	0.30	20	W	SW	2.5YR 5/8	
15.24	16.76	1.52	1.27	84	0.37	24	W	SW	7.5YR 5/6	
16.76	18.29	1.53	1.05	69	0.46	30	W	FR	7.5YR 5/6	
18.29	19.81	1.52	1.21	80	0.50	33	VW	FR	7.5YR 5/6	
19.81	21.34	1.53	1.21	79	0.58	38	W	FR	7.5YR 5/6	
21.34	22.86	1.52	1.24	82	0.92	61	W	FR	7.5YR 5/6	
22.86	24.38	1.52	0.97	64	0.61	40	W	FR	7.5YR 5/6	
24.38	25.91	1.53	1.35	88	1.01	66	W	FR	7.5YR 5/6	
25.91	27.43	1.52	0.96	63	0.58	38	VW	FR	7.5YR 5/6	
27.43	28.96	1.53	0.99	65	0.00	0	VW	FR	5G 6/2 17.5YR 5/6	
28.96	30.48	1.52	0.37	24	0.00	0	VW	FR	10YR 5/8	
30.48	32.00	1.52	1.46	96	0.15	10	VW	FR	7.5YR 5/8	
32.00	33.53	1.53	1.19	78	0.72	47	W	FR	7.5YR 5/8	
33.53	35.05	1.52	1.40	92	0.14	9	W	FR	7.5YR 5/8	
35.05	36.58	1.53	1.04	68	0.23	15	W	FR	7.5YR 5/8	
36.58	38.10	1.52	1.33	87	0.73	48	VW	FR	7.5YR 5/8	
38.10	39.62	1.52	1.02	67	0.00	0	VW	FR	7.5YR 5/8	
39.62	41.15	1.53	0.97	63	0.00	0	EW	FR	7.5YR 5/8	
41.15	42.67	1.52	0.77	51	0.00	0	VW	FR	7.5YR 5/8	
42.67	44.20	1.53	1.19	78	0.53	35	W	FR	5YR 5/6	
44.20	45.72	1.52	1.04	68	0.28	18	W	FR	5YR 5/6	
45.72	47.24	1.52	1.11	73	0.15	10	W	FR	5YR 5/6	
47.24	48.77	1.53	1.01	66	0.67	44	W	FR	5YR 5/6	
48.77	50.29	1.52	1.28	84	0.89	59	W	FR	5YR 5/6	
50.29	51.82	1.53	1.22	80	0.48	31	W	FR	5YR 5/6	
51.82	53.34	1.52	0.83	55	0.00	0	W	FR	5YR 5/6 R 5YR 5/2	
53.34	54.86	1.52	0.72	47	0.00	0	W	FR	GLE1 1 2.5N	
54.86	56.39	1.53	1.27	83	0.00	0	W	FR	GLE1 1 2.5N	
56.39	57.91	1.52	1.14	75	0.00	0	EW	FR	5Y 4/3	
57.91	59.44	1.53	1.05	69	0.00	0	EW	FR	5Y 4/3	
59.44	60.96	1.52	0.79	52	0.00	0	W	FR	GLE1 1 2.5/N	
60.96	62.48	1.52	1.45	95	0.98	64	MS	FR	5YR 2.5/2	
62.48	64.00	1.52	1.23	81	0.90	59	MS	FR	2.5Y 5/2	
64.00	65.53	1.53	1.53	100	1.43	93	S	FR	10YR 4/1	
65.53	67.06	1.53	1.47	96	1.34	88	S	FR	10YR 4/2	
67.06	68.58	1.52	1.48	97	1.42	93	VS	FR	10YR 6/6	
68.58	70.10	1.52	1.52	100	1.17	77	VS	FR	10YR 4/2	
70.10	71.63	1.53	1.52	99	1.28	84	VS	FR	10YR 4/3	
71.63	73.15	1.52	1.45	95	1.39	91	S	FR	10YR 4/6	
73.15	74.68	1.53	1.53	100	1.39	91	VS	FR	10YR 4/2	
74.68	76.20	1.52	1.12	74	0.80	53	VS	FR	10YR 6/4	
76.20	77.72	1.52	1.50	99	1.17	77	MS	FR	10YR 5/4	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
77.72	79.25	1.53	1.33	87	1.06	69	VS	FR	10YR 5/6	
79.25	80.77	1.52	1.52	100	0.83	55	S	FR	10YR 5/4	
80.77	82.30	1.53	1.32	86	0.78	51	S	FR	10YR 4/2	
82.30	83.82	1.52	1.48	97	1.30	86	MS	FR	5YR 7/3	
83.82	85.34	1.52	1.51	99	1.12	74	S	FR	5YR 5/6	
85.34	86.87	1.53	1.53	100	1.49	97	VS	FR	5YR 6/6	
86.87	88.39	1.52	1.43	94	1.18	78	S	FR	7.5YR 4/3	
88.39	89.92	1.53	1.51	99	0.99	65	VS	FR	7.5YR 5/6	
89.92	91.44	1.52	1.39	91	1.13	74	VS	FR	5YR 5/2	
91.44	92.96	1.52	1.52	100	1.47	97	VS	FR	5YR 6/8	
92.96	94.49	1.53	1.35	88	0.97	63	VS	FR	7.5YR 4/2	
94.49	96.01	1.52	1.51	99	1.22	80	VS	FR	7.5YR 5/4	
96.01	97.54	1.53	1.43	93	1.43	93	VS	FR	7.5YR 6/6	
97.54	99.06	1.52	1.51	99	1.35	89	VS	FR	7.5YR 5/4	
99.06	100.58	1.52	0.85	56	0.00	0	MS	FR	5YR 5/6	
100.58	102.11	1.53	1.53	100	0.92	60	S	FR	5YR 4/4	
102.11	103.63	1.52	1.39	91	0.76	50	VS	FR	5YR 6/6	
103.63	105.16	1.53	1.25	82	0.11	7	S	FR	7.5YR 5/6	
105.16	106.68	1.52	1.22	80	0.86	57	MS	FR	2.5YR 7/2	
106.68	108.20	1.52	1.31	86	0.88	58	S	FR		
108.20	109.73	1.53	1.43	93	1.26	82	S	FR		
109.73	111.25	1.52	1.33	88	1.10	72	MS	FR		
111.25	112.78	1.53	1.25	82	0.83	54	S	FR	10YR 5/4	
112.78	114.30	1.52	1.35	89	0.68	45	S	FR	YYR 7/6	
114.30	115.82	1.52	1.10	72	0.29	19	MS	FR	10YR 6/8	
115.82	117.35	1.53	1.05	69	0.00	0	W	FR		
117.35	118.87	1.52	1.10	72	0.51	34	MS	FR		
118.87	120.40	1.53	1.14	75	0.00	0	S	FR		
120.40	121.92	1.52	0.93	61	0.24	16	S	FR	10YR 7/8	
121.92	123.44	1.52	1.36	89	0.99	65	VS	FR		
123.44	124.97	1.53	1.43	93	1.22	80	VS	FR		
124.97	126.49	1.52	1.50	99	1.43	94	ES	FR		
126.49	128.02	1.53	1.01	66	0.70	46	ES	FR		
128.02	129.54	1.52	1.49	98	1.22	80	ES	FR	10YR 7/4	
129.54	131.06	1.52	1.33	87	1.21	80	VS	FR	7YR 8/6	
131.06	132.59	1.53	1.38	90	1.03	67	VS	FR		
132.59	134.11	1.52	1.14	75	0.83	55	ES	FR	GLE1 5/5G /2	
134.11	135.64	1.53	1.41	92	1.05	69	VS	FR	GLE1 8/10Y	
135.64	137.16	1.52	1.35	89	1.02	67	VS	FR	7.5YR 6/6	
137.16	138.68	1.52	1.35	89	1.28	84	VS	FR	7.5YR 8/2	
138.68	140.21	1.53	1.42	93	1.38	90	VS	FR	7.5YR 6/6	
140.21	141.73	1.52	1.30	86	0.58	38	ES	FR	7.5 YR 7/6	
141.73	143.26	1.53	1.13	74	0.58	38	VS	FR	7.5YR 7/6	
143.26	144.78	1.52	1.50	99	1.23	81	ES	FR		
144.78	146.30	1.52	1.34	88	0.99	65	VS	FR		
146.30	147.83	1.53	1.48	97	1.09	71	ES	FR		
147.83	149.35	1.52	1.31	86	1.22	80	ES	FR		
149.35	150.88	1.53	1.35	88	0.98	64	VS	FR		
150.88	152.40	1.52	0.85	56	0.38	25	S	FR		
152.40	153.92	1.52	0.87	57	0.00	0	W	FR		
153.92	155.45	1.53	0.51	33	0.00	0	W	FR		
155.45	156.97	1.52	0.91	60	0.00	0	VW	FR		
156.97	158.50	1.53	0.79	52	0.14	9	MS	FR		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
158.50	160.02	1.52	0.40	26	0.00	0	W	FR		
160.02	161.54	1.52	0.38	25	0.00	0	W	FR		
161.54	163.07	1.53	0.57	37	0.00	0	VW	FR		
163.07	164.59	1.52	1.20	79	0.46	30	VW	FR		
164.59	166.11	1.52	1.32	87	0.69	45	S	FR		
166.11	167.64	1.53	0.90	59	0.29	19	S	FR		
167.64	169.16	1.52	1.45	95	0.79	52	S	FR		
169.16	170.69	1.53	1.36	89	1.09	71	VS	FR		
170.69	172.21	1.52	1.39	91	1.14	75	S	FR		
172.21	173.74	1.53	1.43	93	1.38	90	VS	FR		
173.74	175.26	1.52	1.52	100	1.15	76	S	FR		
175.26	176.78	1.52	1.30	86	1.26	83	S	FR		
176.78	178.31	1.53	1.52	99	1.12	73	S	FR		
178.31	179.83	1.52	1.23	81	0.62	41	MS	FR		
179.83	181.36	1.53	1.52	99	0.00	0	W	FR		
181.36	182.88	1.52	1.25	82	0.00	0	VW	FR		
182.88	184.40	1.52	1.31	86	0.00	0	VW	FR		
184.40	185.93	1.53	0.88	58	0.18	12	VW	FR		
185.93	187.45	1.52	1.52	100	0.19	13	VW	FR		
187.45	188.98	1.53	1.43	93	0.10	7	W	FR		
188.98	190.50	1.52	1.52	100	1.50	99	VS	FR		
190.50	192.02	1.52	1.52	100	1.39	91	VS	FR		
192.02	193.55	1.53	1.50	98	1.50	98	VS	FR		
193.55	195.07	1.52	1.35	89	1.32	87	S	FR		
195.07	196.60	1.53	1.52	99	1.29	84	S	FR		
196.60	198.12	1.52	1.36	89	0.48	32	W	FR		
198.12	199.64	1.52	1.31	86	0.54	36	W	FR		
199.64	201.17	1.53	1.38	90	0.35	23	S	FR		
201.17	202.69	1.52	1.19	78	0.72	47	VS	FR		
202.69	204.16	1.47	1.47	100	1.01	69	VS	FR		
204.16	205.74	1.58	1.47	93	1.07	68	VS	FR		
205.74	207.26	1.52	1.26	83	0.83	55	VS	FR		
207.26	208.79	1.53	1.35	88	0.00	0	S	FR		
208.79	210.31	1.52	1.28	84	0.56	37	W	FR		
210.31	211.84	1.53	1.24	81	0.81	53	S	FR		
211.84	213.36	1.52	1.26	83	0.96	63	VS	FR		
213.36	214.88	1.52	1.43	94	1.18	78	S	FR		
214.88	216.41	1.53	1.39	91	0.99	65	S	FR		
216.41	217.93	1.52	1.30	86	0.69	45	S	FR		
217.93	219.46	1.53	1.44	94	1.12	73	VS	FR		
219.46	220.98	1.52	1.25	82	0.55	36	VS	FR		
220.98	222.50	1.52	0.92	61	0.22	14	VS	FR		
222.50	224.03	1.53	1.14	75	0.38	25	VS	FR		
224.03	225.55	1.52	0.99	65	0.32	21		FR		
225.55	227.08	1.53	1.31	86	0.68	44	VS	FR		
227.08	228.60	1.52	1.29	85	0.79	52	VS	FR		
228.60	230.12	1.52	1.12	74	0.79	52	S	FR		
230.12	231.65	1.53	0.95	62	0.47	31	MS	FR		
231.65	233.17	1.52	1.21	80	0.23	15	MS	FR		
233.17	234.70	1.53	0.92	60	0.31	20	MS	FR		
234.70	236.22	1.52	0.93	61	0.10	7	MS	FR		
236.22	237.74	1.52	1.22	80	0.72	47	MS	FR		
237.74	239.27	1.53	1.32	86	0.85	56	MS	FR		

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
239.27	240.79	1.52	1.01	66	0.00	0	W	FR		
240.79	242.32	1.53	1.00	65	0.55	36	S	FR		
242.32	243.84	1.52	1.26	83	0.41	27	W	FR		
243.84	245.36	1.52	1.19	78	0.50	33	MS	FR		
245.36	246.89	1.53	1.29	84	0.83	54	S	FR		
246.89	248.41	1.52	1.52	100	1.42	93	S	FR		
248.41	249.94	1.53	1.44	94	0.72	47	S	FR		
249.94	251.46	1.52	1.52	100	0.89	59	MS	FR		
251.46	252.98	1.52	1.14	75	0.36	24	MS	FR		
252.98	254.51	1.53	0.88	58	0.00	0	MS	FR		
254.51	256.03	1.52	1.02	67	0.57	38	MS	FR		
256.03	257.56	1.53	1.14	75	0.60	39	MS	FR		
257.56	259.08	1.52	0.92	61	0.43	28	MS	FR		
259.08	260.60	1.52	1.08	71	0.72	47	MS	FR		
260.60	262.13	1.53	1.38	90	0.93	61	VS	FR		
262.13	263.65	1.52	1.24	82	0.72	47	VS	FR		
263.65	265.18	1.53	1.25	82	0.59	39	VS	FR		
265.18	266.70	1.52	1.42	93	0.92	61	VS	FR		
266.70	268.22	1.52	0.88	58	0.00	0	VS	FR		
268.22	269.75	1.53	1.35	88	0.14	9	MW	FR		
269.75	271.28	1.53	1.11	73	0.21	14	MW	FR		
EOH										

SAMPLE LOG

HOLE: NW-11-04

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
9.82	10.67	0.85	0.62	73	I383092	16	0.03	0.63	71	906	
10.67	13.72	3.05	1.92	63	I383093	16	0.05	4.52	1250	6930	
13.72	16.76	3.04	2.28	75	I383094	16	0.03	1.43	536	16700	
16.76	18.57	1.81	1.33	73	I383095	16	<0.01	0.20	65	7360	
18.57	20.73	2.16	1.64	76	I383096	16	<0.01	0.42	137	11600	
20.73	22.86	2.13	1.85	87	I383097	16	0.01	3.96	199	4090	
22.86	25.91	3.05	2.32	76	I383098	16	<0.01	0.42	33	4500	
25.91	27.61	1.70	1.12	66	I383099	16	0.01	0.59	176	16850	
27.61	28.96	1.35	0.83	61	I383100	16	0.10	6.11	579	637	
-	-	-	-	-	I383101	16	<0.01	0.02	4	52	BLANK HQ
28.96	31.00	2.04	0.89	44	I383102	16	0.51	23.80	8660	2090	
31.00	32.62	1.62	1.37	85	I383103	16	1.17	14.05	4710	5370	
-	-	-	-	-	I383104	16	1.54	0.60	195	159	STANDARD ROS-2
32.62	35.05	2.43	2.27	93	I383105	16	0.03	2.64	207	4660	
35.05	38.10	3.05	2.37	78	I383106	16	0.24	7.28	623	5150	
38.10	40.58	2.48	1.84	74	I383107	16	0.12	9.58	332	5290	
40.58	41.85	1.27	1.20	94	I383108	16	0.02	7.46	515	36100	
41.85	42.67	0.82	0.61	74	I383109	16	0.02	1.41	117	34100	
42.67	45.72	3.05	2.23	73	I383110	16	0.03	1.59	116	4210	
45.72	48.77	3.05	2.23	73	I383111	16	0.02	1.42	82	6790	DUPLICATE
48.77	51.18	2.41	2.12	70	I383112	16	0.07	3.01	74	7510	
51.18	53.61	2.43	1.80	75	I383113	16	<0.01	0.36	48	2680	
-	-	-	1.83	75	I383114	16	0.10	7.19	1080	7620	
53.61	56.39	2.78	-	-	I383115	16	<0.01	0.04	5	56	BLANK HQ
56.39	59.00	2.61	1.81	65	I383116	16	0.26	35.40	1945	7480	
59.00	59.63	0.63	1.91	73	I383117	16	0.07	8.49	299	6580	
59.63	61.63	2.00	0.39	62	I383118	16	0.04	1.85	229	8140	
61.63	64.00	2.37	0.45	23	I383119	16	0.03	0.49	65	3010	
64.00	67.06	3.06	2.25	95	I383120	16	0.04	0.40	43	2600	
67.06	70.10	3.04	3.05	100	I383121	16	0.01	0.44	35	1040	
70.10	73.15	3.05	3.04	100	I383122	16	0.01	0.15	13	175	
73.15	75.66	2.51	3.04	100	I383123	16	<0.01	0.08	8	154	
75.66	76.20	0.54	2.24	89	I383124	16	<0.01	0.09	11	63	
76.20	79.25	3.05	0.43	80	I383125	16	<0.01	0.19	35	2780	
79.25	81.45	2.20	3.05	100	I383126	16	<0.01	0.07	11	514	
81.45	82.10	0.65	2.11	96	I383127	16	0.40	6.68	14	26	
82.10	83.82	1.72	0.58	89	I383128	17	<0.01	0.16	19	566	
83.82	86.87	3.05	1.60	93	I383129	17	0.01	0.30	50	703	
86.87	89.92	3.05	3.05	100	I383130	17	<0.01	0.05	7	151	
89.92	92.96	3.04	3.05	100	I383131	17	<0.01	0.04	13	99	
92.96	96.01	3.05	2.85	94	I383132	17	<0.01	0.04	9	49	
96.01	99.06	3.05	3.05	100	I383133	17	<0.01	0.04	11	130	
99.06	101.24	2.18	2.94	96	I383134	17	0.01	0.04	12	139	
101.24	103.63	2.39	1.05	48	I383135	17	0.02	1.70	148	3130	
103.63	106.68	3.05	2.25	94	I383136	17	0.02	3.89	71	913	
106.68	109.73	3.05	2.47	81	I383137	17	0.03	1.51	381	1840	
109.73	112.78	3.05	2.74	90	I383138	17	0.03	0.12	16	109	
112.78	115.04	2.26	2.58	85	I383139	17	0.01	0.08	20	151	
115.04	117.35	2.31	1.78	79	I383140	17	<0.01	0.10	18	229	
-	-	-	1.61	70	I383141	17	0.01	0.09	16	341	
117.35	120.40	3.05	-	-	I383142	17	<0.01	0.01	1	17	BLANK HQ
120.40	123.44	3.04	2.24	73	I383143	17	0.01	0.12	11	562	
123.44	126.49	3.05	1.29	42	I383144	17	0.04	1.74	34	1160	
126.49	129.54	3.05	2.93	96	I383145	17	0.03	1.68	131	736	
-	-	-	2.50	82	I383146	17	<0.01	0.20	23	844	
129.54	132.59	3.05	-	-	I383147	17	1.91	0.30	8	62	STANDARD RSS-6
-	-	-	2.71	89	I383148	17	<0.01	0.14	10	426	
132.59	135.64	3.05	-	-	I383149	17	0.43	1.69	106	449	STANDARD RSS-5
135.64	138.68	3.04	2.55	84	I383150	17	0.02	0.43	29	328	
138.68	141.73	3.05	2.70	89	I383151	17	<0.01	0.27	81	595	
			2.72	89	I383152	17	0.02	0.94	13	485	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
141.73	144.78	3.05	2.63	86	I383153	17	<0.01	0.22	12	520	
144.78	147.83	3.05	2.82	92	I383154	17	0.17	0.16	22	512	
147.83	150.88	3.05	2.66	87	I383155	17	<0.01	0.08	7	851	
-	-	-	-	-	I383156	17	<0.01	0.07	9	1030	DUPLICATE
150.88	151.84	0.96	0.54	-	I383157	17	2.30	2.53	2280	7880	
-	-	-	-	-	I383158	17	<0.01	0.01	4	39	BLANK HQ
151.84	153.92	2.08	1.16	56	I383159	17	0.03	0.68	51	486	
153.92	156.97	3.05	1.42	47	I383160	17	0.01	0.40	17	188	
156.97	160.02	3.05	1.39	46	I383161	17	<0.01	0.29	18	225	
160.02	163.07	3.05	0.95	31	I383162	17	0.02	0.57	23	434	
163.07	164.59	1.52	1.20	79	I383163	17	0.04	1.83	50	230	
164.59	167.64	3.05	2.22	73	I383164	18	0.02	0.40	104	532	
167.64	170.69	3.05	2.81	92	I383165	18	0.10	3.99	27	217	
170.69	173.74	3.05	2.82	92	I383166	18	<0.01	0.06	2	215	
173.74	176.78	3.04	2.82	93	I383167	18	<0.01	0.13	8	404	
176.78	179.83	3.05	2.75	90	I383168	18	0.01	0.26	16	242	
179.83	182.11	2.28	2.29	100	I383169	18	0.02	0.22	6	555	
182.11	185.32	3.21	3.05	95	I383170	18	0.05	21.30	77	138	
185.32	187.45	2.13	2.14	100	I383171	18	0.02	2.01	41	106	
187.45	188.98	1.53	1.43	93	I383172	18	0.01	0.46	32	65	
-	-	-	-	-	I383173	18	<0.01	<0.01	1	20	BLANK HQ
188.98	192.02	3.04	3.04	100	I383174	18	0.03	0.99	60	191	
192.02	195.07	3.05	2.85	93	I383175	18	<0.01	0.53	32	141	
195.07	196.60	1.53	1.52	99	I383176	18	<0.01	0.04	15	522	
196.60	199.64	3.04	2.67	88	I383177	18	<0.01	0.04	15	392	
199.64	202.69	3.05	2.57	84	I383178	18	<0.01	0.13	105	359	
-	-	-	-	-	I383179	18	1.81	0.29	8	63	STANDARD RSS-6
202.69	205.74	3.05	2.94	96	I383180	18	<0.01	0.03	12	133	
205.74	208.79	3.05	2.61	86	I383181	18	<0.01	0.03	32	320	
208.79	211.84	3.05	2.52	83	I383182	18	<0.01	<0.01	8	181	
211.84	214.88	3.04	2.69	88	I383183	18	<0.01	<0.01	9	147	
214.88	217.93	3.05	2.69	88	I383184	18	0.01	0.11	10	234	
217.93	220.98	3.05	2.69	88	I383185	18	0.04	0.61	31	302	
220.98	224.03	3.05	2.06	68	I383186	18	<0.01	0.07	7	403	
-	-	-	-	-	I383187	18	<0.01	0.05	7	401	DUPLICATE
W-11-04	224.03	227.08	2.30	75	I383188	18	<0.01	0.08	8	230	
W-11-04	227.08	230.12	2.41	79	I383189	18	<0.01	0.12	9	126	
W-11-04	230.12	233.17	2.16	71	I383190	18	<0.01	<0.01	8	115	
W-11-04	233.17	236.22	1.85	61	I383191	18	0.02	<0.01	21	110	
W-11-04	236.22	239.27	2.54	83	I383192	18	<0.01	0.32	173	121	
W-11-04	239.27	242.32	2.01	86	I383193	18	0.01	0.20	193	218	
-	-	-	-	-	I383194	18	<0.01	<0.01	2	17	BLANK HQ
-	-	-	-	-	I383195	18	0.46	1.60	104	480	STANDARD RSS-5
W-11-04	242.32	245.36	2.45	81	I383196	18	<0.01	0.81	384	730	
W-11-04	245.36	248.41	2.81	92	I383197	18	<0.01	0.11	18	158	
W-11-04	248.41	251.46	2.96	97	I383198	18	<0.01	0.08	12	115	
W-11-04	251.46	254.51	2.02	66	I383199	18	<0.01	0.08	6	465	
W-11-04	254.51	257.56	2.16	71	I383200	19	<0.01	0.09	5	206	
W-11-04	257.56	259.08	1.52	100	I383201	19	<0.01	0.06	5	235	
W-11-04	259.08	261.06	1.74	88	I383202	19	<0.01	0.05	3	256	
W-11-04	261.06	262.79	1.73	100	I383203	19	0.09	3.29	14	238	
W-11-04	262.79	265.18	2.11	88	I383204	19	<0.01	0.10	2	266	
W-11-04	265.18	268.22	2.30	76	I383205	19	<0.01	0.06	2	256	
W-11-04	268.22	271.27	2.46	81	I383206	19	<0.01	0.07	3	452	

DENSITY LOG

HOLE: NW-11-04

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: NW-11-04

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			N/A	
2.00			0.10	
3.00			0.09	
4.00			N/A	
5.00			N/A	
6.00			N/A	
7.00			N/A	
8.00			N/A	
9.00			N/A	
10.00			0.05	
11.00			0.00	
12.00			0.00	
13.00			0.07	
14.00			0.10	
15.00			0.14	
16.00			0.21	
17.00			0.09	
18.00			0.18	
19.00			0.14	
20.00			0.10	
21.00			0.71	
22.00			0.16	
23.00			0.00	
24.00			0.23	
25.00			0.27	
26.00			0.23	
27.00			0.18	
28.00			0.10	
29.00			0.00	
30.00			0.21	
31.00			0.18	
32.00			0.21	
33.00			0.10	
34.00			0.07	
35.00			0.10	
36.00			0.11	
37.00			0.15	
38.00			0.13	
39.00			0.20	
40.00			0.08	
41.00			0.08	
42.00			0.40	
43.00			0.10	
44.00			0.08	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.10	
46.00			0.10	
47.00			0.16	
48.00			0.13	
49.00			0.28	
50.00			0.21	
51.00			0.05	
52.00			0.43	
53.00			0.20	
54.00			0.38	
55.00			0.18	
56.00			0.13	
57.00			0.08	
58.00			0.11	
59.00			0.11	
60.00			0.06	
61.00			0.11	
62.00			0.15	
63.00			0.11	
64.00			0.20	
65.00			0.48	
66.00			0.26	
67.00			0.40	
68.00			0.28	
69.00			0.57	
70.00			2.23	
71.00			0.62	
72.00			0.58	
73.00			0.75	
74.00			0.40	
75.00			0.45	
76.00			0.16	
77.00			0.11	
78.00			3.34	
79.00			0.20	
80.00			0.38	
81.00			0.40	
82.00			0.45	
83.00			0.50	
84.00			0.13	
85.00			0.52	
86.00			0.65	
87.00			0.90	
88.00			0.50	
89.00			0.60	
90.00			1.19	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			1.44	
92.00			1.09	
93.00			1.62	
94.00			2.18	
95.00			1.02	
96.00			0.35	
97.00			0.20	
98.00			0.65	
99.00			1.42	
100.00			0.16	
101.00			0.03	
102.00			0.10	
103.00			0.10	
104.00			0.13	
105.00			0.09	
106.00			0.12	
107.00			0.12	
108.00			0.14	
109.00			0.16	
110.00			0.14	
111.00			0.12	
112.00			0.19	
113.00			0.10	
114.00			0.56	
115.00			0.29	
116.00			0.31	
117.00			0.12	
118.00			0.21	
119.00			0.38	
120.00			0.70	
121.00			0.53	
122.00			0.56	
123.00			0.67	
124.00			0.78	
125.00			0.18	
126.00			0.14	
127.00			0.36	
128.00			0.56	
129.00			0.60	
130.00			0.47	
131.00			0.42	
132.00			0.86	
133.00			0.09	
134.00			0.18	
135.00			0.76	
136.00			0.67	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00			0.32	
138.00			2.53	
139.00			3.81	
140.00			0.84	
141.00			0.23	
142.00			1.09	
143.00			0.78	
144.00			0.63	
145.00			0.67	
146.00			0.68	
147.00			1.05	
148.00			3.37	
149.00			3.49	
150.00			1.78	
151.00			0.26	
152.00			N/A	
153.00			N/A	
154.00			N/A	
155.00			N/A	
156.00			N/A	
157.00			N/A	
158.00			0.01	
159.00			N/A	
160.00			N/A	
161.00			N/A	
162.00			N/A	
163.00			0.03	
164.00			0.05	
165.00			0.11	
166.00			0.31	
167.00			0.28	
168.00			1.57	
169.00			0.47	
170.00			0.25	
171.00			0.80	
172.00			0.85	
173.00			0.47	
174.00			0.26	
175.00			0.50	
176.00			0.38	
177.00			0.45	
178.00			0.06	
179.00			0.23	
180.00			0.08	
181.00			0.16	
182.00			0.26	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
183.00			0.01	
184.00			0.21	
185.00			0.05	
186.00			0.10	
187.00			0.08	
188.00			0.30	
189.00			0.62	
190.00			1.69	
191.00			0.28	
192.00			0.21	
193.00			0.10	
194.00			0.13	
195.00			0.30	
196.00			1.79	
197.00			0.15	
198.00			0.21	
199.00			0.26	
200.00			0.36	
201.00			1.54	
202.00			0.89	
203.00			1.71	
204.00			0.67	
205.00			0.38	
206.00			0.35	
207.00			0.50	
208.00			0.36	
209.00			0.21	
210.00			1.20	
211.00			0.33	
212.00			0.30	
213.00			0.35	
214.00			0.16	
215.00			0.31	
216.00			0.26	
217.00			0.33	
218.00			0.23	
219.00			0.10	
220.00			0.10	
221.00			0.26	
222.00			0.33	
223.00			0.33	
224.00			0.33	
225.00			0.36	
226.00			0.30	
227.00			0.23	
228.00			0.26	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
229.00			0.43	
230.00			0.11	
231.00			0.25	
232.00			0.70	
233.00			0.47	
234.00			0.45	
235.00			0.08	
236.00			0.26	
237.00			0.75	
238.00			0.33	
239.00			0.31	
240.00			0.01	
241.00			0.53	
242.00			0.35	
243.00			0.11	
244.00			0.15	
245.00			0.26	
246.00			0.15	
247.00			0.30	
248.00			0.13	
249.00			0.23	
250.00			2.25	
251.00			0.16	
252.00			0.31	
253.00			0.30	
254.00			0.35	
255.00			0.33	
256.00			0.42	
257.00			0.35	
258.00			0.35	
259.00			0.35	
260.00			0.33	
261.00			0.40	
262.00			0.25	
263.00			0.36	
264.00			0.42	
265.00			0.63	
266.00			0.67	
267.00			0.89	
268.00			0.62	
269.00			0.65	
270.00			0.65	
271.00			0.57	
EOH				

BOX LOG

HOLE: NW-11-04

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	1.06	12.14	36	153.00	158.00
2	12.14	15.54	37	158.00	163.00
3	15.54	19.56	38	163.00	167.75
4	19.56	22.93	39	167.75	172.71
5	22.93	26.78	40	172.71	178.00
6	26.78	31.24	41	178.00	182.20
7	31.24	35.05	42	182.20	185.93
8	35.05	38.61	43	185.93	191.00
9	38.61	41.94	44	191.00	196.16
10	41.94	45.57	45	196.16	200.54
11	45.59	48.88	46	200.54	205.74
12	48.88	52.86	47	205.74	210.44
13	52.86	57.16	48	210.44	215.65
14	57.16	60.96	49	215.65	220.41
15	60.96	64.60	50	220.41	225.39
16	64.60	68.58	51	225.39	230.12
17	68.58	72.37	52	230.12	234.93
18	72.37	76.48	53	234.93	239.80
19	76.48	80.20	54	239.80	244.32
20	80.20	84.07	55	244.32	249.64
21	84.07	88.05	56	249.64	254.54
22	88.05	91.98	57	254.51	259.78
23	91.98	96.01	58 (1)	259.78	262.13
24	96.01	100.74	58 (2)	262.13	264.70
25	100.74	104.55	59	264.70	269.47
26	104.55	109.41	60	269.47	271.27
27	109.41	114.65	EOH		
28	114.65	119.43			
29	119.43	123.74			
30	123.74	129.15			
31	129.15	134.33			
32	134.33	139.15			
33	139.15	143.86			
34	143.86	148.84			
35	148.84	153.00			

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		518256	7121704	1125	252.38

ZONE: NOW

SECTION: _____

HOLE: NW-11-05

CLAIM: YC32305

Contractor: _____

Drill: Superior

Core size: HQ

Casing depth: 12.19 (m) out

Drilling dates: July 16 to 22, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	45	-50.0	compass	160.94	48.2	-46.8	Ranger
69.50	45.8	-48.0	Ranger	191.42	48.6	-46.8	Ranger
99.98	47.2	-47.3	Ranger	221.90	46.2	-46.1	Ranger
130.46	46.5	-46.6	Ranger	252.00	47.1	-45.3	Ranger

TARGET: _____

[illegible]

SAMPLES
Numbers: I383207 to I383309
Total: 103
Batch: 19, 20, 21, 22
Certificate: WH11141979, WH11152443, WH11143579
WH11151061

COMMENTS	

GEOLOGY LOG

HOLE: NW-11-05

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
0.00	3.00	3.00				OVB																				Casing, no recovery	
3.00	6.88	3.88				OVB																				Overburden, rubbly shale, dolomite and quartz	
																										Dark grey to black, fine-grained, moderately strongly calcite altered shale with trace graphite alteration occurs in shale and calcite and silica alteration occur in veinlets that follow foliation. Core is rubbly to blocky and strongly weathered. Weathering is orange-brown coating on fracture faces. Trace chlorite alteration. Calcite pebbles in shale up to 5mm wide.	
6.88	36.00	29.12				SHL	Ca							t	t		Ca	ms									
									FO	70																	Foliation is at 70° to core axis.
			29.27	29.96	0.69				VL	70	0	1															Veinlets at 70° to core axis, 0° to foliation, <1/m
			23.85						VL	70	0	1															Quartz veinlet at 70° to core axis, 0° to foliation, 8cm wide, 1 total.
36.00	39.62	3.62				SHL											Ch	t									Orange brown, fine-grained shale with trace chlorite alteration. Intense weathering, core is muddy to blocky.
39.62	42.67	3.05				QZ			VN																		Moderately weathered quartz vein. Core is white to orange and rubbly. Vein orientation is inobtainable due to rubbly nature of core. Vein is 3.05m wide. Trace graphite mineralization. Vuggy.
																											Light to dark grey, orange-brown, medium grained, intensely dolomite altered limestone with trace fine-grained pyrite mineralization disseminated throughout. Core is extremely weathered and is muddy to rubbly, with patches of less weathered blocky core.
42.67	88.39	45.72				LST	DOL																				A quartz veinlets at 40-60° to core axis, <1/m; some are vuggy.
									VL	50		<1															A quartz veinlets at 40-60° to core axis, 18° to a veinlets, <1/m.
			82.10	82.75	0.65				VL	45	180	<1															Mosaic brecciation with calcite infilling tectonic breccia. Too weathered to discern boundaries
			86.30						Bx																		
			86.20						Bx																		
			82.10	88.39	6.29				VL																x		Crazy Zorro insignia calcite veir micro-fracturing of limestone

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
88.93	149.85	60.92				LST	DOL												f								medium grey, medium-grained, moderately to intensely dolomite altered limestone, with fair fine-grained to coarse-grained pyrite mineralization, disseminated in limestone and in calcite veinlets. Trace quartz mineralization in dolomite veinlets and between fractured limestone. Slightly weathered. Weathering is orange-brown and occurs on fracture faces. Periodic green hue to limestone.
			106.38																								4cm wide cavity edged with coarse-grained calcite, quartz, dolomite and fine-grained mafic mineralization.
			109.06	109.40	0.34																						orange-brown extended weathered section
									VL	70																	calcite veinlet of 60-80 to core axis, 3/m, up to 2cm wide. Trace, fine-grained, soft, green mineralization in some veinlets.
			88.39	115.82	27.43				Bx																	x	Unit interspersed with sections of mosaic breccia to tectonic breccia, up to 30cm wide.
			102.36																							x	3mm fracture with fine-grained, soft green mineralization.
																											Unit is weakly marblized with medium-grained calcite crystals in a fine-grained matrix. Core is competent
			110.00						VN	30																	Intense silica altered calcite vein, 15cm wide, 30 to core axis
			118.00	118.30	0.30																						orange-grey intensely weathered sectio
																											orange, extremely weathered section with inte4se fine-grained disseminated pyrite mineralization.
			131.80	132.50	0.70														i							x	15cm x 3 cm massive fine-grained pyrite mineralization.
			145.55																								Light grey-green, fine-grained to medium-grained dolomite altered limestone, with moderately strong fine grained soft green mineralization (talc?), and fai fine-grained to medium-grained pyrite mineralization disseminated in limestone and in quartz/calcite veinlets. Trace fine-grained arsenopyrite mineralization in limestone. Limestone is moderately marblized, and periodically intensely clay/talc altered.
149.85	166.12	16.27																	f							x	
																			t								
									VL	70		<1							Cly	s							Quartz/calcite veinlets at 60-80 to core axis. <1/m

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
			157.60						VN	20															x	Quartz vein at 20 to core axis with fair fine-grained to coarse-grained pyrite mineralization, and trace medium-grained black, metallic, brittle, acicular mineralization (jamesonite?)	
			158.20						VL	20																Quartz/calcite veinlet at 20 to core axis, with intense fine-grained green mineralization	
166.12	185.75	19.63																Ca Gr	m s								Black, moderately calcite altered shale, with strong fine-grained graphite alteration, appearing on fracture faces. Calcite alteration appears in veinlets and disseminated through shale. Core is muddy to rubbly.
									FO	60	0																
									VL	55	0	40															Foliation of shale at 50-70 to core axis Calcite veinlets follow foliation at 50-60 to core axis 0 to foliation, 40/m, up to 2mm wide. Core is extremely soft, intensely calcite altered black mud.
			184.40	185.13	0.73																						
			185.75						BD	60																	Contact between shale and limestone at 60 to core axis, 0 to foliation. Foliation follows bedding.
			185.13	185.75	0.62															t							Trace fine-grained pyrite mineralization
			185.75	186.19	0.44															t							Interbedded limestone, shale, and fine-grained pyrite, bands up to 3mm wide.
185.75	207.26	21.51				LST	DOL																				medium grey to grey-green, fine-grained to coarse grained, intensely dolomite altered, strongly talc altered limestone with fine-grained pyrite mineralization disseminated throughout and in blobs up to 1cm wide. Strongly ankerite altered. Core is rubbly to blocky.
																			w								
									BD	60																	Bedding at 60 to core axis
									VL	40	0	<1															[Quartz/calcite] veinlets at 40 to core axis, 0 to bedding, up to 2mm wide, <1/m.
			189.30	189.95	0.65																						Dark grey intensely calcite altered shale with trace fine-grained disseminated pyrite mineralization.
			201.82	202.15	0.33													Gr	t								Layer with rounded shale pebbles, trace graphite altered
			202.15	207.26	5.11				VL	40		8															Highly calcite altered, ankerite altered region with veinlets of calcite at 30-50 to core axis, 8/m. Core is rubbly.
			205.74						VN	60										t							Calcite vein, 20cm wide, 60 to core axis, with trace fine-grained pyrite and trace medium-grained arsenopyrite mineralization.
																				t							

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
207.26	213.36	6.10				SKN							i													Medium-grey, intensely dolomite-altered skarn, with trace graphite alteration on fracture faces. Dolomite is disseminated through skarn and in veinlets.	
																	Gr	t									Trace very fine-grained pyrite mineralization disseminated in siltstone and in blobs up to 1cm wide. Moderately coarse-grained mineralization of dark-brown/black mineral with cleavage perfect in one direction, showing 90/90 cross-section.
									VL	40		5								t							[dolomite/quartz] veinlets at 40 to core axis, 5/r
213.36	213.55	0.19				SHL											Ca	f									Black shale with fair calcite alteration, weak graphite alteration and strong medium-grained pyrite mineralization
																	Gr	w									
213.55	232.65	19.10				LST	DOL																				Medium grey-green intensely dolomite altered limestone with moderate talc alteration and trace fine-grained to coarse-grained pyrite mineralization
									VL	25		<1															Calcite veinlets at 10-40 to core axis, <1/m. Core is rubbly to blocky.
232.65	252.38	19.73				SKN											Ca	s									Medium grey-green strong calcite altered skarr interbedded with layers of dolomite altered limestone unit up to 1.5m wide. Trace fine-grained to coarse-grained pyrite mineralization.
									FO	35																	Foliation of tuff at 30-40 to core axis
									VL	25	315	5								t							Calcite veinlets at 10-40 to core axis, 5/m, 270-0 to foliation, up to 2mm wide with trace fine-grained pyrite mineralization. Core is rubbly to blocky
			244.80						VL	25															x		Calcite veinlet at 25 to core axis, 2cm wide
252.38						EOH																					

GEOTECHNICAL LOG

HOLE: NW-11-05

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
3.05	4.57	1.52	0.15	10	0	0	MS	SW	5YR:5/6	
4.57	6.10	1.53	0.31	20	0.00	0	MS	SW	5YR:5/6	
6.10	7.62	1.52	0.81	53	0.27	18	VW	SW	5YR:5/6	
7.62	9.14	1.52	0.67	44	0.00	0	VW	SW	5YR:5/6	
9.14	10.67	1.53	1.14	75	0.45	29	VW	SW	5YR:5/6	
10.67	12.19	1.52	1.22	80	0.40	26	VW	SW	5YR:5/6	
12.19	13.72	1.53	0.96	63	0.00	0	MS	SW	5YR:5/6	
13.72	15.24	1.52	1.09	72	0.14	9	W	SW	5YR:5/6	
15.24	16.76	1.52	0.13	9	0.00	0	VW	SW	5YR:5/6	
16.76	18.29	1.53	1.20	78	0.00	0	VW	SW	5YR:5/6	
18.29	19.81	1.52	1.31	86	0.37	24	VW	SW	5YR:5/6	
19.81	21.34	1.53	1.33	87	0.30	20	VW	SW	5YR:5/6	
21.34	22.86	1.52	1.49	98	0.69	45	VW	SW	7.5YR:6/8	
22.86	24.38	1.52	0.69	45	0.47	31	VW	SW	7.5YR:6/8	
24.38	25.91	1.53	1.44	94	1.21	79	S	SW	7.5YR:6/8	
25.91	27.43	1.52	0.69	45	0.18	12	S	SW	7.5YR:4/6	
27.43	28.96	1.53	1.44	94	0.22	14	S	SW	7.5YR:4/6	
28.96	30.48	1.52	1.52	100	0.65	43	S	SW	7.5YR:4/6	
30.48	32.00	1.52	1.22	80	0.72	47	VW	SW	7.5YR:4/3	
32.00	33.53	1.53	1.55	101	0.67	44	VW	MW	7.5YR:4/4	
33.53	35.05	1.52	1.23	81	0.00	0	VW	MW	7.5YR:4/4	
35.05	36.58	1.53	1.25	82	0.30	20	VW	MW	7.5YR:4/4	
36.58	38.10	1.52	1.68	111	0.53	35	VW	MW	7.5YR:4/6	
38.10	39.62	1.52	0.99	65	0.21	14	VW	MW	7.5YR:5/8	
39.62	41.15	1.53	0.81	53	0.35	23	VS	MW	7.5YR:5/8	
41.15	42.67	1.52	0.96	63	0.47	31	VS	MW	7.5YR:5/8	
42.67	44.20	1.53	1.33	87	0.27	18	W	EW	7.5YR:5/8	
44.20	45.72	1.52	1.22	80	0.33	22	W	EW	7.5YR:5/8	
45.72	47.24	1.52	1.22	80	0.37	24	W	EW	7.5YR:5/8	
47.24	48.77	1.53	1.29	84	0.90	59	MS	EW	7.5YR:5/8	
48.77	50.29	1.52	1.12	74	0.13	9	VW	EW	7.5YR:5/4	
50.29	51.82	1.53	1.27	83	0.46	30	VW	EW	7.5YR:5/4	
51.82	53.34	1.52	1.05	69	0.14	9	VW	EW	7.5YR:5/4	
53.34	54.86	1.52	0.86	57	0.31	20	VW	EW	5YR:4/4	
54.86	56.39	1.53	1.30	85	0.43	28	MS	EW	5YR:4/4	
56.39	57.91	1.52	1.37	90	1.23	81	VS	MW	5YR:4/4	
57.91	59.44	1.53	1.45	95	1.25	82	VS	MW	5YR:4/4	
59.44	60.96	1.52	1.13	74	0.22	14	MS	W	5YR:4/4	
60.96	62.48	1.52	1.52	100	0.76	50	S	MW	5YR:4/4	
62.48	64.01	1.53	1.36	89	1.33	87	VS	MW	5YR:4/4	
64.01	65.53	1.52	1.53	101	1.15	76	VS	MW	5YR:4/4	
65.53	67.06	1.53	1.12	73	0.52	34	MS	W	5YR:5/6	
67.06	68.58	1.52	1.19	78	0.00	0	W	EW	5YR:5/6	
68.58	70.10	1.52	1.22	80	0.40	26	W	W	7.5YR:5/6	
70.10	71.63	1.53	1.34	88	0.68	44	MS	MW	10YR:5/6	
71.63	73.15	1.52	1.40	92	0.64	42	MS	MW	5YR:4/4	
73.15	74.68	1.53	1.02	67	0.20	13	EW	W	10YR:6/8	
74.68	76.20	1.52	1.38	91	1.03	68	S	MW	7.5YR:5/6	
76.20	77.72	1.52	1.42	93	0.72	47	MS	MW	5YR:3/4	
77.72	79.25	1.53	0.99	65	0.13	8	W	W	2.5YR:4/6	
79.25	80.77	1.52	1.35	89	0.51	34	MS	W	5YR:5/6	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
80.77	82.30	1.53	1.30	85	0.78	51	MS	W	5YR:5/6	
82.30	83.82	1.52	1.52	100	0.97	64	MS	MW	5YR:5/6	
83.82	85.34	1.52	1.35	89	1.00	66	MS	MW	5YR:5/6	
85.34	86.87	1.53	1.45	95	0.84	55	MS	MW	10YR:6/8	
86.87	88.39	1.52	1.30	86	0.26	17	W	W	10YR:6/8	
88.39	89.92	1.53	1.53	100	1.50	98	S	MW	10YR:6/8	
89.92	91.44	1.52	1.42	93	1.13	74	VS	SW	10YR:6/8	
91.44	92.96	1.52	1.52	100	1.38	91	VS	SW	10YR:6/8	
92.96	94.49	1.53	1.53	100	1.50	98	VS	SW	10YR:6/8	
94.49	96.01	1.52	1.48	97	1.30	86	VS	SW	10YR:6/8	
96.01	97.54	1.53	1.31	86	0.92	60	VS	SW	10YR:6/8	
97.54	99.06	1.52	1.52	100	1.38	91	VS	SW	10YR:6/8	
99.06	100.58	1.52	1.37	90	1.37	90	VS	SW	10YR:6/8	
100.58	102.11	1.53	1.44	94	1.05	69	VS	SW	10YR:6/8	
102.11	103.63	1.52	1.52	100	1.52	100	VS	SW	10YR:6/8	
103.63	105.16	1.53	1.51	99	1.32	86	VS	SW	10YR:6/8	
105.16	106.68	1.52	1.47	97	0.77	51	VS	SW	10YR:6/8	
106.68	108.20	1.52	1.52	100	1.27	84	VS	SW	10YR:6/8	
108.20	109.73	1.53	1.42	93	1.07	70	VS	MW	10YR:6/8	
109.73	111.25	1.52	1.40	92	1.18	78	VS	SW	10YR:6/8	
111.25	112.78	1.53	1.52	99	1.52	99	VS	SW	10YR:6/8	
112.78	114.30	1.52	1.31	86	1.27	84	VS	SW	10YR:6/8	
114.30	115.82	1.52	1.50	99	1.28	84	VS	SW	10YR:6/8	
115.82	117.35	1.53	1.38	90	1.34	88	VS	SW	10YR:6/8	
117.35	118.87	1.52	1.30	86	1.13	74	VS	SW	10YR:6/8	
118.87	120.40	1.53	1.48	97	1.48	97	VS	SW	10YR:6/8	
120.40	121.92	1.52	1.37	90	1.20	79	VS	SW	10YR:6/8	
121.92	123.44	1.52	1.52	100	1.52	100	VS	SW	10YR:6/8	
123.44	124.97	1.53	1.48	97	1.48	97	VS	SW	10YR:6/8	
124.97	126.49	1.52	1.60	105	1.60	105	VS	SW	10YR:6/8	
126.49	128.02	1.53	1.32	86	1.32	86	VS	SW	10YR:6/8	
128.02	129.54	1.52	1.50	99	1.50	99	VS	SW	10YR:6/8	
129.54	131.06	1.52	1.38	91	1.38	91	VS	SW	10YR:6/8	
131.06	132.59	1.53	0.82	54	0.82	54	MS	MW	10YR:6/8	
132.59	134.11	1.52	1.38	91	1.38	91	VS	SW	10YR:6/8	
134.11	135.04	0.93	1.43	154	1.43	154	VS	SW	10YR:6/8	
135.04	137.16	2.12	1.40	66	1.38	65	VS	SW	10YR:6/8	
137.16	138.68	1.52	1.52	100	1.46	96	VS	SW	10YR:6/8	
138.68	140.21	1.53	1.35	88	1.28	84	VS	SW	10YR:6/8	
140.21	141.73	1.52	1.52	100	1.48	97	VS	SW	10YR:6/8	
141.73	143.26	1.53	1.43	93	1.43	93	VS	SW	10YR:6/8	
143.26	144.78	1.52	1.52	100	1.48	97	VS	SW	10YR:6/8	
144.78	146.30	1.52	1.43	94	0.90	59	VS	SW	10YR:6/8	
146.30	147.83	1.53	1.48	97	1.43	93	VS	SW	10YR:6/8	
147.83	149.35	1.52	1.41	93	1.41	93	VS	SW	10YR:6/8	
149.35	150.88	1.53	1.43	93		0				
150.88	152.40	1.52	1.24	82		0				
152.40	153.92	1.52	1.41	93		0				
153.92	155.45	1.53	1.32	86		0				
155.45	156.97	1.52	1.50	99		0				
156.97	158.50	1.53	1.43	93		0				
158.50	160.02	1.52	1.46	96		0				
160.02	161.54	1.52	1.32	87		0				

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
161.54	163.07	1.53	1.22	80		0				
163.07	164.59	1.52	1.45	95		0				
164.59	166.12	1.53	1.16	76		0				
166.12	167.64	1.52	0.64	42		0				
167.64	169.16	1.52	1.32	87		0				
169.16	170.69	1.53	1.18	77		0				
170.69	172.21	1.52	1.00	66		0				
172.21	173.74	1.53	1.20	78		0				
173.74	175.26	1.52	1.32	87		0				
175.26	176.78	1.52	1.20	79		0				
176.78	178.31	1.53	1.36	89		0				
178.31	179.83	1.52	1.20	79	0.70	46				
179.83	181.36	1.53	0.30	20		0				Tube did not lock
181.36	182.88	1.52	1.18	32		0				
182.88	184.40	1.52	0.49	53		0				
184.40	185.93	1.53	0.80	82		0				
185.93	187.45	1.52	1.26	92		0				
187.45	188.98	1.53	1.40	83		0				
188.98	190.50	1.52	1.27	79		0				
190.50	192.02	1.52	1.20	78		0				
192.02	193.55	1.53	1.19	95		0				
193.55	195.07	1.52	1.45	92		0				
195.07	196.60	1.53	1.40	78		0				
196.60	198.12	1.52	1.19	74		0				
198.12	199.64	1.52	1.12	74		0				
199.64	201.17	1.53	1.13	84		0				
201.17	202.69	1.52	1.29	70		0				
202.69	204.22	1.53	1.06	80		0				
204.22	205.74	1.52	1.22	67		0				
205.74	207.26	1.52	1.02	74		0				
207.26	208.79	1.53	1.12	80		0				
208.79	210.31	1.52	1.23	95		0				
210.31	211.84	1.53	1.44	86		0				
211.84	213.36	1.52	1.32	78		0				
213.36	214.88	1.52	1.18	80		0				
214.88	216.41	1.53	1.21	56		0				
216.41	217.93	1.52	0.85	64		0				
217.93	219.46	1.53	0.98	54		0				
219.46	220.98	1.52	0.82	73		0				
220.98	222.50	1.52	1.11	83		0				
222.50	224.03	1.53	1.26	88		0				
224.03	225.55	1.52	1.34	100		0				
225.55	227.08	1.53	1.52	87		0				
227.08	228.60	1.52	1.33	73		0				
228.60	230.12	1.52	1.11	125		0				
230.12	233.17	3.05	1.90	39		0				
233.17	234.70	1.53	1.19	90		0				
234.70	236.22	1.52	1.38	69		0				
236.22	237.74	1.52	1.05	73		0				
237.74	239.27	1.53	1.11	0		0				
239.27	240.79	1.52		0		0				
240.79	242.32	1.53		0		0				
242.32	243.84	1.52		0		0				

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
243.84	245.36	1.52		0		0				
245.36	246.89	1.53		0		0				
246.89	248.41	1.52		0		0				
248.41	249.94	1.53		0		0				
249.94	251.46	1.52		0		0				
251.46	252.37	0.91		0		0				
EOH										

SAMPLE LOG

HOLE: NW-11-05

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
-	-	-	-	-	I383207	19	0.39	6.06	12	27	STANDARD ROS-1
6.10	9.14	3.04	1.48	49	I383208	19	0.01	0.57	25	355	
9.14	12.19	3.05	2.36	77	I383209	19	0.01	0.84	169	637	
12.19	15.24	3.05	2.03	67	I383210	19	<0.01	0.59	174	932	
15.24	18.29	3.05	1.33	44	I383211	19	0.01	0.75	159	1140	
18.29	21.34	3.05	2.64	87	I383212	19	<0.01	2.54	147	1660	
-	-	-	-	-	I383213	19	0.02	2.35	180	1800	DUPLICATE
21.34	24.38	3.04	2.62	86	I383214	19	0.01	2.06	572	1160	
24.38	27.43	3.05	2.18	71	I383215	19	0.09	0.43	215	959	
27.43	30.48	3.05	2.96	97	I383216	19	0.02	0.45	166	888	
-	-	-	-	-	I383217	19	1.43	0.51	164	142	STANDARD ROS-2
30.48	33.53	3.05	2.37	78	I383218	19	0.26	2.08	477	2320	
33.53	36.05	2.52	2.21	88	I383219	19	0.05	1.03	277	4820	
36.05	38.10	2.05	2.06	100	I383220	19	0.05	0.56	87	6390	
38.10	39.62	1.52	0.99	65	I383221	19	0.06	6.60	1160	5200	
-	-	-	-	-	I383222	19	<0.01	0.02	3	34	BLANK
39.62	42.67	3.05	1.77	58	I383223	19	<0.01	0.38	42	255	
42.67	45.72	3.05	2.55	84	I383224	19	0.02	2.49	81	2350	
45.72	48.77	3.05	2.51	82	I383225	19	0.01	1.34	72	2350	
48.77	51.82	3.05	2.39	78	I383226	19	0.01	0.88	142	2990	
51.82	54.86	3.04	1.91	63	I383227	19	0.02	4.42	686	5180	
-	-	-	-	-	I383228	19	<0.01	0.02	2	32	BLANK
54.86	56.39	1.53	1.30	85	I383229	19	0.01	0.64	136	3870	
56.39	59.44	3.05	2.82	92	I383230	19	<0.01	0.16	12	904	
59.44	62.48	3.04	2.68	88	I383231	19	0.04	1.45	150	1420	
62.48	65.53	3.05	2.89	95	I383232	19	<0.01	0.13	9	278	
65.53	68.58	3.05	2.31	76	I383233	19	0.02	2.07	727	2870	
68.58	71.63	3.05	2.56	84	I383234	19	0.01	0.74	87	1090	
71.63	74.68	3.05	2.42	79	I383235	19	<0.01	0.42	43	1180	
74.68	77.72	3.04	2.80	92	I383236	20	0.01	0.52	10	968	
77.72	80.77	3.05	2.34	77	I383237	20	0.05	3.59	50	2130	
80.77	83.82	3.05	2.82	92	I383238	20	<0.01	0.36	17	937	
83.82	86.87	3.05	2.80	92	I383239	20	<0.01	0.10	11	463	
86.87	89.92	3.05	2.83	93	I383240	20	0.01	0.08	14	348	
89.92	92.96	3.04	2.94	97	I383241	20	<0.01	0.04	9	59	
92.96	96.10	3.14	3.01	96	I383242	20	<0.01	0.12	11	70	
-	-	-	-	-	I383243	20	<0.01	0.11	10	63	DUPLICATE
96.10	99.06	2.96	2.83	96	I383244	20	0.02	1.44	15	86	
99.06	102.11	3.05	2.91	95	I383245	20	<0.01	0.18	12	41	
102.11	105.16	3.05	3.03	99	I383246	20	<0.01	0.13	10	87	
105.16	108.20	3.04	2.99	98	I383247	20	<0.01	0.15	10	86	
108.20	109.73	1.53	1.42	93	I383248	20	<0.01	0.09	11	658	
109.73	112.78	3.05	2.92	96	I383249	20	0.01	0.09	11	60	
112.78	115.82	3.04	2.81	92	I383250	20	0.01	0.18	13	105	
115.82	118.87	3.05	2.68	88	I383251	20	0.04	0.16	13	860	
118.87	121.92	3.05	2.85	93	I383252	20	0.01	0.09	8	153	
121.92	124.97	3.05	3.00	98	I383253	20	0.01	0.09	13	24	
124.97	128.02	3.05	2.92	96	I383254	20	0.03	2.00	25	821	
128.02	131.06	3.04	3.28	108	I383255	20	0.01	0.18	10	826	
131.06	132.59	1.53	1.37	90	I383256	20	0.42	26.30	1345	2790	
-	-	-	-	-	I383257	20	<0.01	0.05	3	21	BLANK
-	-	-	-	-	I383258	20	1.95	0.26	9	59	STANDARD RSS-6
132.59	135.64	3.05	2.81	92	I383259	20	0.27	6.35	42	202	
135.64	138.68	3.04	2.92	96	I383260	20	<0.01	0.11	29	165	
138.68	141.73	3.05	2.87	94	I383261	20	0.01	0.34	22	165	
141.73	144.78	3.05	2.95	97	I383262	20	0.05	1.66	14	533	
144.78	147.83	3.05	2.91	95	I383263	20	0.02	0.54	23	327	
-	-	-	-	-	I383264	20	0.42	1.67	112	469	STANDARD RSS-5

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
147.83	150.88	3.05	2.84	2	I383265	20	0.03	0.27	28	154	
150.88	153.92	3.04	2.65	2	I383266	20	0.03	0.31	23	293	
-	-	-	-	-	I383267	20	<0.01	0.01	2	15	BLANK
153.92	156.97	3.05	2.82	2	I383268	20	0.08	2.37	73	413	
156.97	160.02	3.05	2.89	2	I383269	20	0.05	2.16	160	309	
160.02	163.07	3.05	2.54	2	I383270	20	<0.01	0.22	24	547	
163.07	166.12	3.05	2.61	86	I383271	20	0.01	0.17	9	310	
-	-	-	-	-	I383272	21	<0.01	0.02	3	12	BLANK
166.12	169.16	3.04	1.96	64	I383273	21	<0.01	0.50	13	436	
169.16	172.21	3.05	2.17	71	I383274	21	<0.01	0.68	11	335	
172.21	175.26	3.05	1.52	50	I383275	21	<0.01	0.35	15	185	
-	-	-	-	-	I383276	21	0.50	1.60	113	464	STANDARD RSS-5
175.26	178.31	3.05	2.56	84	I383277	21	<0.01	0.29	17	183	
178.31	181.36	3.05	1.50	49	I383278	21	<0.01	0.25	18	193	
181.36	184.40	3.04	1.67	55	I383279	21	0.01	0.39	16	338	
184.40	186.14	1.74	1.10	63	I383280	21	0.03	0.38	24	192	
-	-	-	-	-	I383281	21	<0.01	0.02	2	13	BLANK
186.14	187.45	1.31	0.96	73	I383282	21	0.07	2.11	18	83	
187.45	189.25	1.80	1.66	92	I383283	21	0.01	0.42	8	283	
189.25	189.96	0.71	0.64	90	I383284	21	0.02	0.48	8	92	
189.96	192.02	2.06	1.78	86	I383285	21	0.01	0.18	6	958	
192.02	195.07	3.05	2.64	87	I383286	21	<0.01	0.26	10	714	
195.07	198.12	3.05	2.59	85	I383287	21	0.01	0.58	21	516	
198.12	201.17	3.05	2.70	89	I383288	21	<0.01	0.11	11	345	
201.17	204.22	3.05	2.32	76	I383289	21	0.01	0.09	9	395	
204.22	207.26	3.04	2.55	84	I383290	21	0.02	0.17	12	356	
-	-	-	-	-	I383291	21	<0.01	0.16	12	446	DUPLICATE
207.26	210.31	3.05	1.24	41	I383292	21	<0.01	0.05	6	130	
210.31	213.36	3.05	2.76	90	I383293	21	<0.01	0.37	6	87	
213.36	214.11	0.75	0.75	100	I383294	21	<0.01	0.79	11	43	
214.11	216.41	2.30	1.78	77	I383295	21	0.01	0.45	11	122	
-	-	-	-	-	I383296	21	1.89	0.29	10	59	STANDARD RSS-6
216.41	219.46	3.05	1.83	60	I383297	21	0.04	0.86	71	84	
219.46	222.50	3.04	1.93	63	I383298	21	<0.01	0.14	9	115	
222.50	225.55	3.05	2.60	85	I383299	21	<0.01	0.12	11	105	
225.55	228.60	3.05	2.85	93	I383300	21	0.01	0.71	17	105	
228.60	230.12	1.52	1.11	73	I383301	21	0.02	2.73	29	94	
230.12	233.17	3.05	1.90	62	I383302	21	0.06	1.46	98	228	
233.17	236.22	3.05	2.57	84	I383303	21	0.03	5.77	508	481	
236.22	239.27	3.05	2.16	71	I383304	21	0.02	3.47	1050	541	
239.27	242.22	2.95	2.70	92	I383305	21	0.01	1.66	22	137	
242.22	245.36	3.14	2.11	67	I383306	21	0.15	7.88	46	117	
245.36	248.41	3.05	2.18	71	I383307	21	0.02	0.27	6	217	
248.41	251.46	3.05	1.38	45	I383308	22	<0.01	0.36	5	467	
251.46	252.37	0.91	0.34	37	I383309	22	<0.01	0.17	4	262	

DENSITY LOG

HOLE: NW-11-05

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: NW-11-05

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			NA	
2.00			NA	
3.00			0.03	
4.00			0.06	
5.00			0.06	
6.00			0.00	
7.00			0.01	
8.00			0.00	
9.00			0.00	
10.00			0.05	
11.00			0.05	
12.00			0.05	
13.00			0.03	
14.00			0.15	
15.00			0.10	
16.00			0.00	
17.00			0.01	
18.00			0.01	
19.00			0.10	
20.00			0.05	
21.00			0.05	
22.00			0.05	
23.00			0.10	
24.00			0.05	
25.00			0.03	
26.00			0.05	
27.00			0.05	
28.00			0.06	
29.00			0.06	
30.00			0.01	
31.00			0.08	
32.00			0.03	
33.00			0.06	
34.00			0.03	
35.00			0.00	
36.00			0.08	
37.00			0.08	
38.00			0.15	
39.00			0.11	
40.00			0.00	
41.00			0.01	
42.00			0.01	
43.00			0.06	
44.00			0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.06	
46.00			0.06	
47.00			0.05	
48.00			1.02	
49.00			0.16	
50.00			0.11	
51.00			0.03	
52.00			0.06	
53.00			0.21	
54.00			0.10	
55.00			0.11	
56.00			0.10	
57.00			0.25	
58.00			0.48	
59.00			0.23	
60.00			0.11	
61.00			0.15	
62.00			0.40	
63.00			0.25	
64.00			0.31	
65.00			0.36	
66.00			0.20	
67.00			0.16	
68.00			0.25	
69.00			0.15	
70.00			0.35	
71.00			0.15	
72.00			0.52	
73.00			0.21	
74.00			0.16	
75.00			0.11	
76.00			0.16	
77.00			0.11	
78.00			0.10	
79.00			0.10	
80.00			0.11	
81.00			0.16	
82.00			0.10	
83.00			0.11	
84.00			0.53	
85.00			0.99	
86.00			0.30	
87.00			0.20	
88.00			0.15	
89.00			1.79	
90.00			0.28	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			2.57	
92.00			1.39	
93.00			2.30	
94.00			3.29	
95.00			0.75	
96.00			2.06	
97.00			0.52	
98.00			0.08	
99.00			0.13	
100.00			0.50	
101.00			1.64	
102.00			1.07	
103.00			0.55	
104.00			3.93	
105.00			0.33	
106.00			1.79	
107.00			0.87	
108.00			1.19	
109.00			1.76	
110.00			0.43	
111.00			0.53	
112.00			0.16	
113.00			0.30	
114.00			0.48	
115.00			0.65	
116.00			0.21	
117.00			1.57	
118.00			0.23	
119.00			0.21	
120.00			0.57	
121.00			0.10	
122.00			0.72	
123.00			0.84	
124.00			0.10	
125.00			0.97	
126.00			2.62	
127.00			0.10	
128.00			0.18	
129.00			0.31	
130.00			2.13	
131.00			0.13	
132.00			0.08	
133.00			0.06	
134.00			0.10	
135.00			0.48	
136.00			0.63	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00			0.84	
138.00			0.85	
139.00			0.92	
140.00			0.23	
141.00			0.73	
142.00			0.11	
143.00			1.12	
144.00			2.20	
145.00			0.05	
146.00			0.01	
147.00			0.58	
148.00			0.15	
149.00			0.15	
150.00			0.13	
151.00			0.10	
152.00			0.16	
153.00			0.10	
154.00			0.16	
155.00			0.38	
156.00			0.25	
157.00			0.15	
158.00			0.13	
159.00			0.73	
160.00			0.57	
161.00			0.36	
162.00			0.06	
163.00			0.28	
164.00			0.45	
165.00			0.36	
166.00			0.13	
167.00			0.00	
168.00			0.05	
169.00			0.05	
170.00			0.03	
171.00			0.01	
172.00			0.00	
173.00			0.01	
174.00			0.01	
175.00			0.01	
176.00			0.03	
177.00			0.00	
178.00			0.01	
179.00			0.05	
180.00			0.01	
181.00			0.00	
182.00			0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
183.00			0.00	
184.00			0.00	
185.00			0.50	
186.00			0.13	
187.00			0.15	
188.00			0.28	
189.00			0.21	
190.00			0.23	
191.00			1.61	
192.00			0.87	
193.00			0.26	
194.00			0.38	
195.00			0.38	
196.00			0.28	
197.00			0.62	
198.00			1.49	
199.00			0.20	
200.00			0.23	
201.00			0.33	
202.00			0.55	
203.00			0.80	
204.00			1.47	
205.00			0.45	
206.00			0.48	
207.00			0.58	
208.00			0.40	
209.00			0.16	
210.00			0.35	
211.00			0.16	
212.00			0.30	
213.00			0.16	
214.00			0.11	
215.00			0.58	
216.00			0.23	
217.00			0.05	
218.00			0.35	
219.00			0.55	
220.00			0.48	
221.00			0.53	
222.00			0.77	
223.00			0.75	
224.00			0.73	
225.00			0.53	
226.00			0.53	
227.00			0.68	
228.00			0.48	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
229.00			0.62	
230.00			0.78	
231.00			0.43	
232.00			0.52	
233.00			0.58	
234.00			0.92	
235.00			0.64	
236.00			0.23	
237.00			0.35	
238.00			0.50	
239.00			3.78	
240.00			3.00	
241.00			0.82	
242.00			0.28	
243.00			0.55	
244.00			0.78	
245.00			0.65	
246.00			0.75	
247.00			0.72	
248.00			0.55	
249.00			0.58	
250.00			0.50	
251.00			0.62	
252.00			0.50	
EOH				

BOX LOG

HOLE: NW-11-05

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	3.05	10.18	35	142.30	146.57
2	10.18	14.46	36	146.57	150.61
3	14.46	18.29	37	150.61	154.68
4	18.29	21.49	38	154.68	158.73
5	21.49	25.91	39	158.73	162.65
6	25.91	29.96	40	162.65	167.64
7	29.96	33.67	41	167.64	171.59
8	33.67	37.93	42	171.59	174.94
9	37.93	42.67	43	174.94	178.31
10	42.67	46.20	44	178.31	182.88
11	46.20	49.50	45	182.88	187.85
12	49.50	53.28	46	187.85	192.02
13	53.28	57.23	47	192.02	195.94
14	57.23	61.12	48	195.94	199.73
15	61.12	64.88	49	199.73	204.04
16	64.88	68.84	50	204.04	207.80
17	68.84	73.05	51	207.80	211.84
18	73.05	77.50	52	211.84	215.89
19	77.50	81.92	53	215.89	220.94
20	81.92	85.54	54	220.94	224.03
21	85.54	89.54	55	224.03	227.92
22	89.54	93.66	56	227.92	231.44
23	93.66	97.93	57	231.44	235.88
24	97.93	101.82	58	235.88	239.65
25	101.82	105.76	59	239.65	243.65
26	105.76	109.73	60	243.65	247.70
27	109.73	113.45	61	247.70	251.57
28	113.45	117.59	62	251.57	252.37
29	117.59	121.85	EOH		
30	121.85	125.90			
31	125.90	130.07			
32	130.07	134.11			
33	134.11	138.18			
34	138.18	142.30			

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		518392	7121675	1143	271.27

ZONE: NOW

SECTION: _____

HOLE: NW-11-06

CLAIM: YC32306

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 6.10 (m) out

Drilling dates: July 23 to 27, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	45	-50.0	compass	181.36	46.7	-49.0	Ranger
89.92	45.7	-50.0	Ranger	211.84	47.9	-48.4	Ranger
120.40	46.5	-49.8	Ranger	242.32	48.5	-47.8	Ranger
150.88	46.6	-49.5	Ranger	272.80	48.9	-47.0	Ranger

TARGET: _____

[illegible]

SAMPLES
Numbers: I383310 to I383415
Total: 106
Batch: 22, 23, 24
Certificate: WH11151061, WH11152785, WH11158344

COMMENTS	

GEOLOGY LOG

HOLE: NW-11-06

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION					MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other				Other
																	Type	Intensity				Type	Intensity			Type
0.00	1.18	1.18				OVB																				No recovery
1.18	1.64	0.46				OVB																				Overburden, rubbly shale/shale muc
																										mediuim grey to black shale. Slightly to moderately weatherd orage/brown on fracture faces. Core is muddy to rubbly to blocky.
1.64	50.58	48.94				LST	DOL																			Foliation is 60-80 to core axis
									FO	70																Quartz veinlets at 80 to core axis, 0 to foliation, density <1 per metre
									VL	80	0	<1														Calcite veinlets at 7- to core axis, 0 to foliation, density <1 per metre
									VL	70	0	<1														wet mud
			15.80	16.40	0.60																					muddy shale mixed with sandy quartz
			35.06	35.46	0.40																					Quartz vein moderately weathered with some calcite, 15c wide. Orientation unclear
			39.28																							Shale sections mixed with dolomite altered limestone up to 1m in length.
			35.06	49.06	14.00																					Light grey to dark grey and red/brown (strong to extremely weathered alternating sections) of fine-grained to medium-grained intensely dolomite altered limestone. Trace fine- to coarse-grained pyrite mineralization disseminated throughout limestone as weklk as quartz veinlets. Dodecahedral pyrite.
49.06	200.22	151.16				LST	DOL													t					x	Bedding 60-70 to core axis
									BD	65																Moderately weathered, blocky to rubbly quartz veir 0.97m in width. Toothy white orientation not apparent.
			56.34	57.31	0.97				VN																	Quartz veinlets at 30 to core axis, <1/m7
			64.01	75.38	11.37				VL	30		<1														Extremely weathered olive green to red/browr muddy to rubbly section. Could be fine-grained volcanoclastic.
			75.38	80.65	5.27																				x	Crackle breccia with calcite in-filling
			80.78	85.35	4.57				Bx																x	Slightly weathered section of competent core
			85.05	97.54	12.49																					Calcite veinlets 35-40 to core axis, <1 per metr
									VL	40		<1														Quartz veinlets 40-50 to core axis, <1 per metr
									VL	45		<1														
																										Medium grey, fine-grained greissen (?) intrusion. Intense fine-grained muscovite mineralization, and weak calcite alteration. Greissen shows weak orange-brown weathering on fracture faces, and is borderede on either side by strangely weathered, rubbly core. Overall, core is competent.
			113.34	128.85	15.51																					One calcite/quartz veinlet at 45 to core axis, 2mm wide
			132.80						VL	45																

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
			132.85						VL	80																One calcite/quartz veinlet at 80 to core axis, 2mm wide	
			133.10	133.40	0.30																					Region of strong silica alteration, with crackle breccia and calcite infilling	
			138.30						VL	60										i						Quartz veinlet at 60 to core axis, 1cm wide, with medium-grained, intense pyrite mineralization	
			142.75						VL	70										s						Qz veinlet at 70 to core axis, 5mm wide, with strong medium-grained pyrite mineralization	
			143.26	145.88	2.62													Ca	i							Intense calcite and silica altered section with trace fine-grained soft green mineralization (chlorite?) and weak fine- to medium-grained pyrite mineralization	
																		SIL	i								
																				w							
									VL	50		5														[Quartz/calcite] veinlets at 40-60 to core axis, 5 per metre, up to 5mm wide.	
			149.35	150.15	0.80																				x	Limestone is tectonically brecciated with darker intense silica altered angular limestone clasts up to 5cm wide, with infilling calcite with strong soft green mineralization. Fair pyrite mineralization in clasts and matrix.	
			153.92																							Intense fine- to coarse-grained dodecahedral pyrite mineralization	
			163.44	164.25	0.81																					medium grey-green, rubbly to muddy, fine-grained section with intense fine-grained pyrite mineralization. Fizzes strongly with 10% acid.	
			167.15	170.70	3.55				VL	20		1														Calcite veinlets at 20 to core axis with fair medium grained pyrite mineralization	
									VL	70		2													x	Calcite veinlets at 70 to core axis with strong medium- to coarse-grained pyrite mineralization	
			164.55	164.70	0.15	LST	DOL																			Intense fine-grained soft black mineralization (mica?) with long axis at 90 to core axis	
			154.25																							Quartz mineralization with coarse-grained pyrite mineralization and fine-grained soft green mineralization	
			173.58						VL	50																One quartz and coarse-grained pyrite veinlet at 50 to core axis, 1cm wide.	
			174.66	174.76	0.10																					Limestone is soft and vuggy, with strong medium-grained pyrite mineralization	
			176.78	176.93	0.15													Ca	i							Intensely calcite altered section	
									VL	70																Alteration is in veinlets at 60-80 to core axis and in medium-grained calcite mineralization.	
			179.78	180.90	1.12																					Dark grey, soft and rubbly sector	
			181.05	181.36	0.31				Bx																	Section of tectonic breccia dolomite altered limestone with calcite infilling.	
			184.40	185.93	1.53				BD	90																Bedding is apparent at 80-90 to core axis; intense soft-green mineralization	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION					MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other				Other	
																	Type	Intensity				Type	Intensity			Type	Intensity
			188.40	190.50	2.10																					Dark grey-green muddy to rubbly section. Fizzes strongly with 10% acid	
			190.78	191.21	0.43														m							Moderate medium-grained pyrite mineralization	
			191.21	193.61	2.40				VN										t							Rubbly quartz vein with trace coarse-grained pyrite mineralization and trace fine-grained chlorite mineralization and calcite crystals 6cm wide	
																								Cl	t	x	
			193.55																i							Intense coarse-grained pyrite mineralization	
			193.61	199.00	5.39				VL	40		4														Dolomite veinlets at 40 to core axis, 2 sets, 180 to each other, 2 per metre each	
			199.00	199.40	0.40				VN																	Blocky to rubbly quartz veir	
																										Quartz vein with trace coarse-grained pyrite mineralization	
			199.64	200.22	0.58														t							Black intensely calcite altered shale with trace fine grained pyrite mineralization disseminated throughout	
200.22	206.36	6.14				SHL											Ca		t							x	
									BD	50																	
									FO	50	0																Foliation at 50 to core axis
									VL	50	0	30															Calcite veinlets following foliation at 30 per metre, bedding at 30 per metre (0 to foliation)
206.36	217.50	11.14				SKN																					medium grey, moderate chlorite altered very fine grained rock (skarn) with trace fine-grained pyrite mineralization disseminated throughout. Core is soft and blocky
									FO	50									Cl	m	t						Foliation at 50 to core axis
									VL	50	0	10															Calcite veinlets following foliation at 10 per metre; Above unit interbeds for 30cm with below unit
217.50	227.80	10.30				LST	DOL												Cl	i							Light grey-green intensely calcite altered, very fine grained soft rock (dolomite altered limestone?) with strong coarse-grained calcite mineralization and trace coarse-grained pyrite mineralization. Core is rubbly to blocky.
									FO	55																	Foliation at 50-60 to core axis
									VL	55	0	3															Quartz veinlets following foliation, at 3 per metre, up to 6cm wide.
			225.58																							x	Black dendritic stringers
227.80	243.84	16.04				LST	DOL												Cl	w	t						Medium grey fine- to medium-grained weakly calcite altered, intensely dolomite altered limestone(?) with trace medium-grained pyrite mineralization. Calcite crystals are medium-grained. Core is heavy. Trace medium-grained quartz mineralization
																								Qz	t		

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
									FO	40																Foliated texture at 40 to core axis, with high density of black dendritic stringers following foliation. Some stringers have intense fine-grained pyrite mineralization. Core is blocky to competent.	
									VL	40	0	3														Calcite veinlets follow foliation at 3 per metre, up to 1cm wide.	
243.84	260.60	16.76				SKN														t						Medium green fine-grained intrusive(?) rock (Skarn?). Hardness ranges from weak (can be scratched with a finger nail) to strong (can be scratched with a knife with difficulty). Texture is massive. Trace fine-grained pyrite mineralization. Trace medium-grained black mineralization (hornblende?). Core is heavy and blocky to competent.	
			259.08	260.60	1.52																t					Trace fine-grained pyrrhotite mineralization skarr and in 50 to core axis calcite veinlets.	
									VL	20		4										t				Calcite veinlets at 10-30 to core axis, <1/r	
									VL	55		3														Calcite veinlets at 50-60 to core axis, 3/r	
260.60	264.90	4.30				LST														t						Fine-grained medium grey rock, massive texture , fizzes with 30% acid somewhat. Intense dolomite altered limestone (?) trace medium-grained pyrite mineralization.	
			260.60	261.30	0.70																					Core is blocky to competent. High density of black stringers oriented at 50 to core axis.	
264.90	271.27	6.37				SKN														t						Medium grey-green, fine- to medium-grained intensely dolomite altered limestone (?). Medium-grained crystals are calcite (fizz) and fine-grained crystals are grey, green, and black. Trace fine- to medium-grained pyrite mineralization. Core is blocky and heavy. Trace marble alteration.	
EOH									VL	40		4														Quartz veinlets at 40 to core axis, <1 per metre	

GEOTECHNICAL LOG

HOLE: NW-11-06

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
0.00	1.52	1.52	0.30	20	0.00	0	MS	SW		
1.52	3.05	1.53	0.33	22	0.00	0	MS	SW		
3.05	4.57	1.52	1.10	72	0.00	0	MS	SW		
4.57	7.62	3.05	0.94	31	0.00	0	MS	SW		
7.62	9.14	1.52	0.81	53	0.00	0	W	SW		
9.14	10.67	1.53	1.05	69	0.00	0	W	SW		
10.67	12.19	1.52	0.86	57	0.00	0	EW	SW		
12.19	16.76	4.57	1.06	23	0.00	0	EW	SW		
16.76	18.29	1.53	0.75	49	0.00	0	EW	SW		
18.29	19.81	1.52	1.47	97	0.00	0	MS	SW		
19.81	21.34	1.53	1.39	91	0.00	0	MS	SW		
21.34	22.86	1.52	0.98	64	0.11	7	MS	SW		
22.86	24.38	1.52	1.20	79	0.00	0	MS	SW		
24.38	25.91	1.53	1.33	87	0.10	7	MS	SW		
25.91	27.43	1.52	1.46	96	0.28	18	MS	SW		
27.43	28.96	1.53	1.09	71	0.00	0	MS	SW		
28.96	30.48	1.52	1.24	82	0.00	0	MS	SW		30.48-32.00 NO RECOVERY
32.00	33.53	1.53	1.42	93	0.00	0	MS	SW		
33.53	35.05	1.52	1.48	97	0.00	0	MS	SW		
35.05	36.58	1.53	1.29	84	0.00	0	MS	SW		
36.58	38.10	1.52	0.90	59	0.00	0	MS	SW		
38.10	39.62	1.52	0.80	53	0.12	8	W	SW		
39.62	41.15	1.53	1.07	70	0.63	41	VW	SW		
41.15	42.67	1.52	1.08	71	0.58	38	W	SW		
42.67	44.20	1.53	1.48	97	0.89	58	MS	SW		
44.20	45.72	1.52	1.53	101	0.83	55	MS	SW		
45.72	47.24	1.52	1.09	72	0.00	0	MS	SW		
47.24	48.77	1.53	1.52	99	0.00	0	MS	SW		
48.77	50.29	1.52	1.29	85	0.63	41	MS	SW		
50.29	51.82	1.53	1.39	91	0.86	56	MS	SW		
51.82	53.34	1.52	1.22	80	0.59	39	MS	SW		
53.34	54.86	1.52	1.31	86	0.67	44	MS	SW		
54.86	56.39	1.53	0.90	59	0.15	10	MS	MW		
56.39	57.91	1.52	1.53	101	0.55	36	W	HW	7.5 YR 6/8	
57.91	59.44	1.53	1.09	71	0.17	11	ES	MW	7.5 YR 6/8	
59.44	60.96	1.52	1.29	85	0.45	30	MS	MW	7.5 YR 6/8	
60.96	62.48	1.52	1.52	100	0.78	51	MS	HW	7.5 YR 6/8	
62.48	64.01	1.53	1.33	87	0.33	22	MS	MW	7.5 YR 6/8	
64.01	65.53	1.52	1.25	82	0.11	7	MS	MW	7.5 YR 6/8	
65.53	67.06	1.53	1.31	86	0.81	53	MS	MW	7.5 YR 6/8	
67.06	68.58	1.52	1.51	99	0.43	28	MS	MW	7.5 YR 6/8	
68.58	70.10	1.52	1.27	84	0.93	61	MS	HW	7.5 YR 6/8	
70.10	71.63	1.53	1.49	97	0.76	50	MS	MW	7.5 YR 6/8	
71.63	73.15	1.52	1.33	87	0.41	27	MS	MW	7.5 YR 6/8	
73.15	74.68	1.53	1.28	84	0.26	17	MS	HW	7.5 YR 6/8	
74.68	76.20	1.52	1.16	76	1.09	72	MS	MW	7.5 YR 6/8	
76.20	77.72	1.52	1.33	88	0.88	58	MS	MW	7.5 YR 6/8	
77.72	79.25	1.53	0.63	41	0.00	0	MS	HW	7.5 YR 6/8	
79.25	80.77	1.52	1.28	84	0.00	0	W	EW	10Y 6/4	
80.77	82.30	1.53	1.27	83	0.10	7	W	HW	10Y 6/4	
82.30	83.82	1.52	1.24	82	0.00	0	W	HW	10Y 6/4	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
83.82	85.34	1.52	1.44	95	0.90	59	VS	SW	7.5YR 6/8	
85.34	86.87	1.53	1.42	93	1.02	67	VS	SW	7.5YR 6/8	
86.87	88.39	1.52	1.49	98	1.38	91	VS	SW	7.5YR 6/8	
88.39	89.92	1.53	1.39	91	1.38	90	VS	SW	7.5YR 6/8	
89.92	91.44	1.52	1.52	100	1.44	95	VS	SW	7.5YR 6/8	
91.44	92.96	1.52	1.33	88	1.33	88	VS	SW	7.5YR 6/8	
92.96	94.49	1.53	1.52	99	1.18	77	VS	SW	7.5YR 6/8	
94.49	96.01	1.52	1.52	100	1.47	97	VS	SW	7.5YR 6/8	
96.01	97.54	1.53	1.52	99	1.15	75	VS	SW	7.5YR 6/8	
97.54	99.06	1.52	1.41	93	1.33	88	VS	SW	7.5YR 6/8	
99.06	100.58	1.52	1.23	81	1.01	66	MS	SW	7.5YR 6/8	
100.58	102.11	1.53	1.13	74	0.25	16	MS	MW	7.5YR 6/8	
102.11	103.63	1.52	0.00	0	0.00	0	MS	MW	7.5YR 6/8	
103.63	105.16	1.53	1.33	87	0.42	27	MS	MW	7.5YR 6/8	
105.16	106.68	1.52	1.08	71	0.25	16	MS	MW	7.5YR 6/8	
106.68	108.20	1.52	1.25	82	0.16	11	MS	MW	7.5YR 6/8	
108.20	109.73	1.53	1.21	79	0.15	10	MS	HW	7.5YR 6/8	
109.73	111.25	1.52	1.50	99	0.27	18	MS	MW	7.5YR 6/8	
111.25	112.78	1.53	1.31	86	0.36	24	MS	MW	7.5YR 6/8	
112.78	114.30	1.52	1.41	93	0.67	44	MS	MW	7.5YR 6/8	
114.30	115.82	1.52	1.25	82	1.18	78	MS	MW	7.5YR 6/8	
115.82	117.34	1.52	1.52	100	0.80	53	VS	MW	7.5YR 6/8	
117.34	118.87	1.53	1.46	95	0.25	16	MS	MW	2.5YR 3/4	
118.87	120.40	1.53	1.29	84	0.12	8	S	HW	2.5YR 3/4	
120.40	121.92	1.52	1.36	89	0.00	0	S	MW	2.5YR 3/4	
121.92	123.44	1.52	1.37	90	1.10	72	VS	HW	2.5YR 3/4	
123.44	124.97	1.53	1.28	84	0.28	18	MS	MW	7.5YR 6/8	
124.97	126.49	1.52	1.41	93	0.62	41	MS	EW	7.5YR 6/8	
126.49	128.02	1.53	0.82	54	0.00	0	MS	EW	7.5YR 6/8	
128.02	129.54	1.52	1.05	69	0.14	9	MS	EW	2.5YR 3/4	
129.54	131.06	1.52	1.15	76	0.33	22	MS	EW	7.5YR 6/8	
131.06	132.59	1.53	1.02	67	0.15	10	MS	EW	7.5YR 6/8	
132.59	134.11	1.52	1.40	92	0.81	53	MS	HW	2.5YR 3/4	
134.11	135.64	1.53	1.34	88	1.14	75	S	SW	7.5YR 6/8	
135.64	137.16	1.52	1.52	100	1.08	71	S	SW	7.5YR 6/8	
137.16	138.68	1.52	1.40	92	1.40	92	S	SW	7.5YR 6/8	
138.68	140.21	1.53	1.38	90	1.38	90	S	SW	7.5YR 6/8	
140.21	141.73	1.52	1.43	94	1.38	91	S	SW	7.5YR 6/8	
141.73	143.26	1.53	1.53	100	1.48	97	S	SW	7.5YR 6/8	
143.26	144.78	1.52	1.23	81	1.01	66	S	MW	7.5YR 6/8	
144.78	146.30	1.52	1.14	75	0.87	57	MS	MW	7.5YR 6/8	
146.30	147.83	1.53	1.47	96	0.79	52	MS	SW	2.5YR 3/4	
147.83	149.35	1.52	1.11	73	0.50	33	MS	MW	7.5YR 6/8	
149.35	150.88	1.53	1.51	99	1.41	92	MS	MW	7.5YR 6/8	
150.88	152.40	1.52	1.43	94	1.21	80	S	SW	7.5YR 6/8	
152.40	153.92	1.52	1.52	100	1.33	88	S	SW	10YR 8/7	
153.92	155.45	1.53	1.53	100	1.15	75	S	MW	10YR 8/7	
155.45	156.97	1.52	1.41	93	1.24	82	S	FR	10YR 8/7	
156.97	158.50	1.53	1.42	93	0.82	54	MS	MW	10YR 8/7	
158.50	160.02	1.52	1.31	86	0.19	12	MS	HW	10YR 8/7	
160.02	161.54	1.52	1.47	97	1.12	74	V	FR	N/A	
161.54	163.07	1.53	1.38	90	0.79	52	S	MW	2.5YR 3/4	
163.07	164.59	1.52	1.47	97	0.45	30	MS	SW	5Y 7/4	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
164.59	166.12	1.53	1.33	87	0.92	60	S	SW	5Y 7/4	
166.12	167.64	1.52	1.45	95	1.06	70	S	SW	5Y 7/4	
167.64	169.16	1.52	1.52	100	1.52	100	S	SW	5Y 7/4	
169.16	170.69	1.53	1.00	65	0.80	52	S	FR	N/A	
170.69	172.21	1.52	1.52	100	1.52	100	ES	SW	5YR 6/6	
172.21	173.74	1.53	1.53	100	1.86	122	ES	SW	5YR 6/6	
173.74	175.26	1.52	1.10	72	0.60	39	VS	SW	2.5YR 5/8	
175.26	176.78	1.52	1.45	96	1.34	88	VS	SW	2.5YR 5/8	
176.78	178.31	1.53	1.40	92	1.20	78	VS	SW	7.5YR 7/8	
178.31	179.83	1.52	1.10	72	0.83	55	VS	SW	N/A	
179.83	181.36	1.53	1.22	80	0.78	51	MS	MW	7.5YR 8/4	
181.36	182.88	1.52	1.46	96	0.36	24	S	SW	5YR 6/6	
182.88	184.40	1.52	1.52	100	1.45	95	MS	MW	5YR 6/6	
184.40	185.93	1.53	1.53	100	1.05	69	MS	SW	5YR 6/6	
185.93	187.45	1.52	1.38	91	0.91	60	S	SW	2.5YR 3/6	
187.45	188.98	1.53	1.50	98	0.24	16	MS	MW	5YR 7/8	
188.98	190.50	1.52	1.37	90	0.39	26	W	MW	10YR 7/8	
190.50	192.02	1.52	1.20	79	0.82	54	S	SW	7.5YR 5/6	
192.02	193.55	1.53	1.49	97	0.68	44	MS	SW	2.5YR 4/6	
193.55	195.07	1.52	1.52	100	0.81	53	S	MW	2.5YR 5/8	
195.07	196.60	1.53	1.24	81	0.50	33	S	SW	10YR 5/8	
196.60	198.12	1.52	1.24	82	0.30	20	S	MW	5YR 5/8	
198.12	199.64	1.52	1.38	91	0.88	58	S	SW	5YR 4/6	
199.64	201.17	1.53	1.46	95	0.55	36	MS	FR	N/A	
201.17	202.69	1.52	1.35	89	0.55	36	MS	FR	N/A	
202.69	204.22	1.53	1.39	91	0.78	51	S	FR	N/A	
204.22	205.74	1.52	1.44	95	0.18	12	S	FR	N/A	
205.74	207.26	1.52	1.52	100	0.78	51	S	FR	N/A	
207.26	208.79	1.53	1.53	100	0.34	22	S	FR	N/A	
208.79	210.31	1.52	1.39	91	0.53	35	S	FR	N/A	
210.31	211.84	1.53	1.52	99	0.53	35	W	FR	N/A	
211.84	213.36	1.52	1.39	91	1.25	82	MS	FR	N/A	
213.36	214.88	1.52	1.42	93	1.27	84	MS	FR	N/A	
214.88	216.41	1.53	1.43	93	0.65	42	VW	FR	N/A	
216.41	217.93	1.52	1.42	93	0.56	37	MS	FR	N/A	
217.93	219.46	1.53	1.43	93	0.38	25	MS	FR	N/A	
219.46	220.98	1.52	1.42	93	0.52	34	MS	FR	N/A	
220.98	222.50	1.52	1.42	93	0.60	39	MS	FR	N/A	
222.50	224.03	1.53	1.42	93	0.46	30	MS	FR	N/A	
224.03	225.55	1.52	1.45	95	0.41	27	MS	FR	N/A	
225.55	227.08	1.53	1.18	77	0.30	20	MS	FR	N/A	
227.08	228.60	1.52	1.47	97	0.51	34	VS	FR	N/A	
228.60	230.12	1.52	1.52	100	0.93	61	VS	FR	N/A	
230.12	231.65	1.53	1.52	99	1.32	86	VS	FR	N/A	
231.65	233.17	1.52	1.46	96	0.99	65	VS	FR	N/A	
233.17	234.70	1.53	1.53	100	1.43	93	S	FR	N/A	
234.70	236.22	1.52	1.49	98	1.27	84	MS	FR	N/A	
236.22	237.74	1.52	1.51	99	1.36	89	VS	FR	N/A	
237.74	239.27	1.53	1.30	85	1.00	65	VS	FR	N/A	
239.27	240.79	1.52	1.44	95	0.70	46	S	FR	N/A	
240.79	242.32	1.53	1.49	97	0.44	29	VS	FR	N/A	
242.32	243.84	1.52	1.46	96	0.61	40	S	FR	N/A	
243.84	245.36	1.52	1.50	99	0.91	60	S	FR	N/A	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
245.36	246.89	1.53	1.53	100	0.89	58	S	FR	N/A	
246.89	248.41	1.52	1.38	91	0.62	41	S	FR	N/A	
248.41	249.94	1.53	1.47	96	0.85	56	S	FR	N/A	
249.94	251.46	1.52	1.52	100	1.01	66	S	FR	N/A	
251.46	252.98	1.52	1.52	100	0.21	14	S	FR	N/A	
252.98	254.51	1.53	1.50	98	0.86	56	S	FR	N/A	
254.51	256.03	1.52	1.52	100	1.26	83	S	FR	N/A	
256.03	257.56	1.53	1.46	95	1.42	93	S	FR	N/A	
257.56	259.08	1.52	1.45	95	1.24	82	VS	FR	N/A	
259.08	260.60	1.52	1.37	90	0.66	43	VS	FR	N/A	
260.60	262.13	1.53	1.38	90	0.79	52	VS	FR	N/A	
262.13	263.65	1.52	1.48	97	0.98	64	S	FR	N/A	
263.65	265.18	1.53	1.22	80	0.42	27	S	FR	N/A	
265.18	266.70	1.52	1.40	92	0.42	28	S	FR	N/A	
266.70	268.22	1.52	1.52	100	0.92	61	S	FR	N/A	
268.22	269.75	1.53	1.51	99	1.12	73	S	FR	N/A	
269.75	271.27	1.52	1.48	97	0.91	60	S	FR	N/A	EOH

SAMPLE LOG

HOLE: NW-11-06

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
1.52	4.57	3.05	1.43	47	I383310	22	<0.01	1.01	20	404	
4.57	7.62	3.05	0.94		I383311	22	<0.01	1.25	41	1180	
					I383312	22	0.46	1.71	109	461	Standard RSS-5
7.62	10.67	3.05	1.86		I383313	22	<0.01	1.35	31	911	
10.67	15.24	4.57	1.86		I383314	22	<0.01	1.30	26	427	no 12.19-15.24 sample
15.24	18.29	3.05	2.27		I383315	22	<0.01	1.71	43	605	
18.29	21.34	3.05	2.86		I383316	22	0.03	1.24	42	687	
21.34	24.38	3.04	2.18		I383317	22	<0.01	0.94	41	720	
24.38	27.43	3.05	2.79		I383318	22	0.01	0.78	39	539	
27.43	30.48	3.05	2.33		I383319	22	0.01	0.97	51	585	no 30.48-33.53 sample
33.53	36.58	3.05	2.90		I383320	22	0.02	0.95	143	1080	
36.58	39.62	3.04	2.19		I383321	22	0.03	0.83	223	6390	
39.62	42.67	3.05	1.87		I383322	22	0.05	1.04	599	4410	
42.67	45.72	3.05	2.51		I383323	22	<0.01	1.26	215	1360	
45.72	48.77	3.05	2.61		I383324	22	<0.01	0.11	20	356	
48.77	50.29	1.52	2.81		I383325	22	<0.01	1.47	23	502	
50.29	53.34	3.05	1.39		I383326	22	0.01	0.48	30	1180	
					I383327	22	<0.01	0.06	2	23	Blank
53.34	56.39	3.05	2.53		I383328	22	0.02	0.73	163	1140	
56.39	59.44	3.05	1.43		I383329	22	0.01	0.68	17	1790	
					I383330	22	0.01	0.83	17	1860	Duplicate
59.44	62.48	3.04	2.48		I383331	22	0.06	3.88	67	755	
62.48	65.53	3.05	2.85		I383332	22	<0.01	0.43	13	966	
65.53	68.58	3.05	3		I383333	22	<0.01	0.54	16	1180	
68.58	71.63	3.05	3		I383334	22	0.01	0.80	32	1560	
71.63	74.68	3.05	2.82		I383335	22	<0.01	0.21	11	1110	
					I383336	22	0.40	6.96	15	30	Standard ROS-1
74.68	76.70	2.02	2.44		I383337	22	0.01	1.00	42	1220	
76.70	79.25	2.55	1.73		I383338	22	0.18	2.39	58	1540	
79.25	82.30	3.05	1.66		I383339	22	0.02	0.31	53	1920	
82.30	85.34	3.04	2.51		I383340	22	<0.01	0.10	16	1370	
					I383341	22	<0.01	0.02	2	27	Blank
85.34	88.39	3.05	2.86		I383342	22	<0.01	0.07	6	540	
88.39	91.44	3.05	2.88		I383343	22	<0.01	0.06	7	202	
91.44	94.49	3.05	2.85		I383344	23	0.03	1.09	11	62	
94.49	97.54	3.05	3.04		I383345	23	0.02	1.05	16	207	
97.54	100.58	3.04	2.94		I383346	23	0.01	0.33	17	203	
100.58	105.16	4.58	2.36		I383347	23	0.01	3.78	62	1660	
105.16	108.20	3.04	2.41		I383348	23	<0.01	0.62	39	1570	
108.20	111.25	3.05	2.46		I383349	23	<0.01	0.52	14	649	
111.25	114.30	3.05	2.81		I383350	23	<0.01	0.32	14	819	
					I383351	23	<0.01	0.21	12	475	Duplicate
114.30	115.82	1.52	2.66		I383352	23	<0.01	0.14	13	638	
115.82	118.87	3.05	2.98		I383353	23	0.01	0.13	9	2200	
					I383354	23	2.05	0.25	9	63	Standard RSS-6
118.87	121.92	3.05	2.65		I383355	23	0.02	0.77	20	6310	
121.92	124.97	3.05	2.65		I383356	23	0.02	0.12	12	2810	
124.97	128.02	3.05	2.23		I383357	23	0.01	0.60	49	3660	
128.02	131.06	3.04	2.20		I383358	23	0.02	0.21	104	3690	
131.06	134.11	3.05	2.42		I383359	23	<0.01	0.21	17	2130	
					I383360	23	<0.01	<0.01	1	24	Blank
134.11	137.16	3.05	2.92		I383361	23	0.01	0.18	9	244	
137.16	140.21	3.05	2.78		I383362	23	<0.01	0.14	7	84	
140.21	143.26	3.05	2.96		I383363	23	<0.01	0.11	10	172	
143.26	146.30	3.04	2.37		I383364	23	0.01	0.21	11	330	
146.30	149.35	3.05	2.58		I383365	23	0.02	1.47	20	477	
					I383366	23	3.77	0.28	7	15	Standard RSS-7
149.35	152.40	3.05	2.94		I383367	23	0.01	1.03	12	116	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
152.40	155.45	3.05	3.04		I383368	23	0.01	1.04	45	68	
					I383369	23	<0.01	0.01	1	16	Blank
155.45	158.50	3.05	2.83		I383370	23	0.01	0.72	18	151	
158.50	161.54	3.04	2.78		I383371	23	<0.01	0.33	37	1160	
161.54	164.59	3.05	2.86		I383372	23	0.02	0.62	15	599	
164.59	167.64	3.05	2.78		I383373	23	<0.01	0.13	10	263	
167.64	170.69	3.05	2.52		I383374	23	<0.01	0.82	15	219	
170.69	173.74	3.05	3.05		I383375	23	<0.01	0.08	9	217	
173.74	176.78	3.04	2.62		I383376	23	<0.01	0.09	10	343	
176.78	179.83	3.05	2.50		I383377	23	<0.01	0.15	14	601	
179.83	182.88	3.05	2.68		I383378	23	<0.01	0.12	8	341	
182.88	185.93	3.05	3.05		I383379	23	0.03	0.98	8	96	
185.93	187.45	1.52	1.38		I383380	24	0.07	2.19	30	223	
187.45	190.50	3.05	2.87		I383381	24	0.01	0.35	52	631	
					I383382	24	<0.01	0.02	1	19	Blank
190.50	193.55	3.05	2.69		I383383	24	0.02	0.50	20	69	
					I383384	24	1.94	0.34	9	60	Standard RSS-6
193.55	196.60	3.05	2.76		I383385	24	0.04	2.23	136	315	
196.60	199.64	3.04	2.62		I383386	24	0.03	1.48	120	314	
199.64	201.17	1.53	1.46		I383387	24	0.11	6.45	587	156	
201.17	204.22	3.05	2.74		I383388	24	0.06	0.75	10	519	
204.22	206.36	2.14	1.98		I383389	24	0.03	0.91	16	154	
206.36	208.97	2.61	2.51		I383390	24	0.01	0.64	34	145	
208.97	211.84	2.87	2.92		I383391	24	0.03	0.38	26	127	
211.84	214.88	3.04	2.81		I383392	24	<0.01	0.39	22	95	
214.88	217.40	2.52	2.33		I383393	24	0.01	0.25	14	195	
					I383394	24	<0.01	0.01	1	18	Blank
217.40	219.40	2.00	1.95		I383395	24	0.01	0.20	11	174	
219.40	222.50	3.10	2.84		I383396	24	0.01	0.27	17	73	
222.50	225.55	3.05	2.89		I383397	24	<0.01	0.29	10	255	
225.55	228.60	3.05	2.65		I383398	24	<0.01	0.14	11	300	
					I383399	24	4.09	0.29	6	14	Standard RSS-7
228.60	231.65	3.05	3.04		I383400	24	<0.01	0.18	14	77	
231.65	234.70	3.05	2.99		I383401	24	<0.01	0.13	11	250	
234.70	237.74	3.04	3.00		I383402	24	<0.01	0.28	35	94	
237.74	240.79	3.05	2.74		I383403	24	<0.01	0.31	28	101	
					I383404	24	<0.01	0.36	47	116	Duplicate
240.79	243.84	3.05	2.95		I383405	24	0.01	0.24	25	90	
243.84	246.89	3.05	3.03		I383406	24	<0.01	0.16	11	212	
246.89	249.94	3.05	2.85		I383407	24	<0.01	0.15	9	94	
249.94	252.98	3.04	3.04		I383408	24	<0.01	0.13	8	92	
252.98	256.03	3.05	3.02		I383409	24	<0.01	0.16	16	94	
256.03	259.08	3.05	2.91		I383410	24	<0.01	0.15	5	109	
259.08	260.60	1.52	1.37		I383411	24	<0.01	0.17	7	110	
260.60	263.65	3.05	2.86		I383412	24	0.01	0.21	10	204	
263.65	266.70	3.05	2.62		I383413	24	0.01	0.72	18	279	
266.70	269.95	3.25	3.03		I383414	24	<0.01	0.11	4	193	
269.95	271.27	1.32	1.48		I383415	24	<0.01	0.06	3	189	

DENSITY LOG

HOLE: NW-11-06

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: NW-11-06

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00	N/A			
2.00	0.00			
3.00	0.01			
4.00	0.05			
5.00	0.05			
6.00	0.10			
7.00	0.06			
8.00	0.05			
9.00	0.11			
10.00	0.18			
11.00	0.50			
12.00	0.05			
13.00				
14.00				
15.00	0.11			
16.00	0.11			
17.00	0.10			
18.00	0.06			
19.00	0.08			
20.00	0.10			
21.00	0.05			
22.00	0.06			
23.00	0.01			
24.00	0.13			
25.00	0.06			
26.00	0.03			
27.00	0.05			
28.00	0.10			
29.00	0.01			
30.00	0.11			
31.00	0.20			
32.00	0.06			
33.00	0.13			
34.00	0.08			
35.00	0.13			
36.00	0.20			
37.00	0.13			
38.00	0.18			
39.00	0.11			
40.00	0.16			
41.00	0.08			
42.00	0.11			
43.00	0.08			
44.00	0.06			

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00	0.10			
46.00	0.06			
47.00	0.16			
48.00	0.20			
49.00	0.23			
50.00	0.13			
51.00	0.15			
52.00	0.21			
53.00	0.13			
54.00	0.25			
55.00	0.16			
56.00	0.18			
57.00	0.03			
58.00	0.20			
59.00	0.21			
60.00	0.35			
61.00	0.20			
62.00	0.33			
63.00	0.70			
64.00	0.25			
65.00	0.13			
66.00	0.10			
67.00	0.53			
68.00	0.15			
69.00	0.36			
70.00	0.08			
71.00	0.06			
72.00	0.20			
73.00	0.38			
74.00	0.15			
75.00	0.23			
76.00	0.20			
77.00	0.16			
78.00	0.33			
79.00	0.36			
80.00	0.20			
81.00	0.23			
82.00	0.68			
83.00	0.72			
84.00	0.53			
85.00	0.95			
86.00	0.42			
87.00	0.16			
88.00	0.30			
89.00	0.10			
90.00	0.28			

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00	0.11			
92.00	0.13			
93.00	0.21			
94.00	0.62			
95.00	0.65			
96.00	1.59			
97.00	0.28			
98.00	0.16			
99.00	0.53			
100.00				
101.00				
102.00	0.11			
103.00	0.2			
104.00	0.57			
105.00	0.15			
106.00	0.25			
107.00	0.36			
108.00	0.11			
109.00	0.28			
110.00	0.5			
111.00	0.35			
112.00	0.33			
113.00	0.48			
114.00	0.26			
115.00	0.33			
116.00	0.56			
117.00	0.73			
118.00	0.72			
119.00	0.78			
120.00	0.45			
121.00	0.16			
122.00	0.38			
123.00	0.72			
124.00	0.26			
125.00	0.01			
126.00	0.62			
127.00	0			
128.00	0.26			
129.00	0.11			
130.00	0.3			
131.00	3.71			
132.00	0.15			
133.00	0.3			
134.00	0.5			
135.00	0.72			
136.00	0.5			

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00	4.6			
138.00	0.58			
139.00	0.8			
140.00	0.62			
141.00	0.21			
142.00	0.55			
143.00	0.5			
144.00	0.45			
145.00	0.33			
146.00	0.73			
147.00	0.06			
148.00	0.26			
149.00	0.28			
150.00	0.18			
151.00	0.8			
152.00	0.6			
153.00	0.84			
154.00	0.11			
155.00	0.11			
156.00	0.36			
157.00	0.28			
158.00	0.23			
159.00	0.28			
160.00	0.11			
161.00	0.52			
162.00	0.25			
163.00	0.58			
164.00	0.1			
165.00	0.13			
166.00	0.3			
167.00	0.67			
168.00	0.15			
169.00	0.25			
170.00	0.23			
171.00	0.53			
172.00	0.55			
173.00	0.65			
174.00	0.63			
175.00	0.84			
176.00	1.12			
177.00	1.56			
178.00	2.26			
179.00	6.14			
180.00	0.3			
181.00	0.18			
182.00	0.42			

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
183.00	0.26			
184.00	0.15			
185.00	0.11			
186.00	0.15			
187.00	0.21			
188.00	0.28			
189.00	0.15			
190.00	0.36			
191.00	0.01			
192.00	0.11			
193.00	0.01			
194.00	0.21			
195.00	0.28			
196.00	0.21			
197.00	0.06			
198.00	0.08			
199.00	0			
200.00	0			
201.00	0.11			
202.00	0.05			
203.00	0.11			
204.00	0.1			
205.00	0.05			
206.00	0.03			
207.00	0.05			
208.00	0.06			
209.00	0.06			
210.00	0.08			
211.00	0.03			
212.00	0.18			
213.00	0.06			
214.00	0.05			
215.00	0.15			
216.00	0.23			
217.00	0.21			
218.00	0.18			
219.00	0.21			
220.00	0.94			
221.00	0.15			
222.00	0.48			
223.00	1.27			
224.00	0.35			
225.00	0.26			
226.00	0.25			
227.00	0.9			
228.00	2.21			

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
229.00	3.64			
230.00	5.05			
231.00	4.43			
232.00	2.16			
233.00	2.06			
234.00	0.52			
235.00	0.43			
236.00	0.68			
237.00	0.36			
238.00	0.5			
239.00	0.21			
240.00	0.63			
241.00	0.6			
242.00	0.08			
243.00	0.7			
244.00	0.48			
245.00	1.26			
246.00	0.89			
247.00	1.24			
248.00	1.05			
249.00	0.94			
250.00	0.92			
251.00	0.78			
252.00	0.21			
253.00	0.73			
254.00	0.84			
255.00	0.97			
256.00	0.73			
257.00	0.73			
258.00	0.73			
259.00	4.16			
260.00	0.9			
261.00	0.35			
262.00	0.15			
263.00	0.3			
264.00	0.31			
265.00	0.36			
266.00	0.52			
267.00	0.65			
268.00	0.48			
269.00	0.89			
270.00	0.72			
271.00	0.7			EOH

BOX LOG

HOLE: NW-11-06

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	1.18	6.10	36	149.05	152.92
2	6.10	10.20	37	152.92	156.31
3	10.20	16.66	38	156.31	159.94
4	16.66	21.19	39	159.94	163.51
5	21.19	24.94	40	163.51	167.23
6	24.94	28.90	41	167.23	171.39
7	28.90	34.14	42	171.39	175.17
8	34.14	38.25	43	175.17	179.47
9	38.25	42.93	44	179.47	183.26
10	42.93	47.24	45	183.26	187.52
11	47.24	51.06	46	187.52	191.80
12	51.06	55.36	47	191.80	196.63
13	55.36	59.38	48	196.63	199.17
14	59.38	65.54	49	199.17	202.62
15	65.54	67.06	50	202.62	206.36
16	67.06	71.12	51	206.36	210.19
17	71.12	75.14	52	210.19	214.00
18	75.14	80.06	53	214.00	217.93
19	80.06	84.40	54	217.93	221.75
20	84.40	88.39	55	221.75	225.55
21	88.39	92.69	56	225.55	229.03
22	92.69	96.67	57	229.03	233.17
23	96.67	100.76	58	233.17	237.35
24	100.76	105.77	59	237.35	241.15
25	105.77	109.18	60	241.15	244.87
26	109.18	112.57	61	244.87	248.90
27	112.57	116.28	62	248.90	252.62
28	116.28	120.24	63	252.62	256.59
29	120.24	124.11	64	256.59	260.60
30	124.11	128.09	65	260.60	264.83
31	128.09	132.47	66	264.83	268.22
32	132.47	136.44	67	268.22	271.27
33	136.44	140.81			
34	140.81	144.78			
35	144.78	149.05			

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		525067	7121815	1756	155.45

ZONE: PUMA

SECTION: _____

HOLE: PM-11-01

CLAIM: YC68898

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 4.57 (m) out

Drilling dates: July 29 to August 4, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	340	-50.0	compass	109.73	344.0	-49.4	Ranger
48.77	341.5	-49.2	Ranger	124.97	343.7	-49.1	Ranger
64.01	342.3	-49.3	Ranger	140.21	344.5	-48.9	Ranger
79.25	342.6	-49.4	Ranger	155.00	344.9	-49.1	Ranger

TARGET: Puma fault

[illegible]

SAMPLES
Numbers: I383416 to I383466
Total: <u>51</u>
Batch: <u>25, 26</u>
Certificate: WH11164058, WH11203943, WH11164057

COMMENTS	

GEOLOGY LOG

HOLE: PM-11-01

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
0.00	0.75	0.75				OVB																				Casing. No recovery	
0.75	1.66	0.91				DOL	OVB						m													Rubbly to muddy, brown, moderately dolomite-altered limestone.	
			1.15	1.30	0.15				Bx																	Piece of competent core showing tectonic brecciation with dolomite infilling.	
																										Mottled, medium brown and grey, fine-grained, slightly weathered, moderately dolomite-altered limestone. Weathering is brown, orange-brown, and yellow-brown, and occurs on fracture faces, and periodically throuout sections of competent limestone. Core is blocky to competent. Bedding structures are not apparent.	
1.66	33.20	31.54				DOL							m													Fracturing occurs predominantly at 20-40 to core axis, and is generally brown calcite-healed.	
									FR	30																Fine-grained micaceous black, green, and red mineralization. Chlorite present.	
			10.00																			Cl	i		x	Mottled light red-brown moderately weathered section. Appears to contain clasts of less weathered dolomite-altered limestone.	
			11.68	12.19	0.51																				x	Thin banding of grey, brown and white limestone at 40 to core axis. Appears to be bedding.	
			18.15						BD	40															x	Veinlets of quartz bordered by rusty calcite up to 1mm wide occur at 40 to core axis and 90 to fractures, at 1/m.	
			18.15	22.86	4.71				VL	40	90															Red and green micaceous fine-grained mineralization. Rusty chlorite?	
			20.50																			Cl	i				
			21.00						BD	30																Thin light and dark banding at 30 to core axis. Appears to be bedding. Bounded below by rusty dolomite veinlet at the same orientation 5mm wide.	
									VL	30	0																
									VL	40	330															Rusty dolomite veinlet at 40 to core axis, 330 to bedding, offset by above veinlet.	
			25.20																							Dark green, intense chlorite alteration on fracture faces.	
			28.00																							Fine fractures at 40 to core axis, healed with fine grained black mineralization.	
			31.70																							Trace fine-grained dark red mineralization	
			32.40						St	90																Dark red stiloloite at roughly 90 to core axis	
33.20	50.29	17.09				DOL																				Medium grey, fine-grained, weakly dolomite-alterec limestone, mottled with blotches of lighter grey weakly dolomite-altered limestone. Limestone is generally slightly weathered, and interspersed with highly weathered sections.	
			33.53	33.83	0.30				Bx																	Crackle breccia with quartz and calcite infilling	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
			37.10	37.30	0.20																					Light grey-brown calcic mud.	
			39.40	40.20	0.80																					Ligght brown, moderately weathered section	
			40.20						VL	80																1 quartz veinlet, 7.5cm wide, at 80 to core axis	
																										1 rubbly quartz vein containing limestone clasts. Orientation is not apparent.	
			40.40	41.15	0.75				VN																	Crackle breccia with dolomite infilling.	
			41.15	42.80	1.65				Bx																	1 rubbly, highly weathered quartz vein with dark brown calcite mineralization (fizzes vigorously with 10% HCl) at 60 to core axis.	
																										2 quartz veinlets with rusty calcite borders, 1cm wide, occur at 50 to core axis.	
			42.80	44.05	1.25				VN	60																Medium orangy-brown, extremely weathered, non calcic mud.	
			45.15						VL																	x	
50.29	50.90	0.61				OX																					Light to medium grey and light brown mottled, fine-grained moderately dolomite altered limestone, with trace periodic blotchy white fine-grained calcite mineralization and trace periodic light to dark fine-grained silica mineralization. Core is competent and intermitently weathered to medium to dark brown blocky to rubbly sections. Bedding textures are not appparent
																											Fractures healed with dark brown, rusty calcite occur at 20-30 to core axis throughout the interval, periodically at >10/m, with greater occurence in regions of higher weathering.
50.90	100.58	49.68				DOL							m													x	White calcite veinlets up to 3mm wide with rusty borders occur at the same orientation as the fracturing at <1/m.
									FR	25	>10																Dolomite veinlets occur at 60 to core axis, 200 to and offset by above veinlets and fracturing.
									VL	25	<1																Rubbly to blocky, moderately weathered section. Weathering is brown and occurs on fracture faces and rubble, as well as throughout core.
									VL	60	<1																Weathered section as above
			76.20	80.77	4.57																						Weathered section as above
			89.20	90.94	1.74																						
			91.95	92.48	0.53																						
																											Mottled, light grey and brown to dark brown, fine grained, weakly dolomite-altered limestone. Core is slightly weathered to highly weathered, and variably brecciated with creamy white and dark brown fine-grained to medium-grained calcite infilling (fizzes vigorously with 10% HCl). Core is generally competent, becoming blocky to rubbly in the more weathered sections. Weathering is light brown to dark brown, and occurs throughout interval. No bedding textures are apparent.
100.58	146.50	45.92				DOL			Bx				w														

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Type			Other	
																	Type	Intensity				Type	Intensity					
									FR	40		>10															Calcite-healed fractures occur throughout the interval at 30-50 to core axis, at a density of >10/m, periodically increasing in density to become crackle breccia.	
									FR	15		>10															Calcite-healed fractures occur at 180 to above fractures, at 10-20 to core axis, and are offset by above fractures.	
									VL	40		1														x	White calcite veinlets with dark brown calcite borders occur at the same orientations as both fracture sets, both at a density of 1/m.	
			104.13	105.16	1.03				VL	15		1															Medium brown, highly weathered, crackle-brecciated, rubbly to blocky section.	
			113.86	115.30	1.44				Bx																	x	Core is medium brown, moderately weathered, and mosaic to tectonic brecciated with dark brown calcite infilling.	
			118.55	119.55	1.00				Bx																	x	Tectonic breccia with medium grey limestone infilling, crosscut by dark brown calcite-healed fractures.	
			123.62	126.49	2.87				BX																		Core is moderately weathered, and mosaic brecciated with dark brown calcite infilling.	
			132.00	143.26	11.26				Bx																	x	Medium to dark brown, highly to extremely weathered, blocky to rubbly section interspersed with tectonic breccia.	
			143.26	146.50	3.24				Bx																		Core is moderately weathered, and mosaic brecciated with lighter grey-brown brown calcite infilling. The breccia texture is crosscut by the dark brown calcite-healed fractures.	
146.50	155.45	8.95				DOL			BX				w														Light to medium grey, competent, slightly weathered, fine-grained, weakly dolomite-altered limestone, with lighter grey calcite-infilled mosaic breccia throughout.	
									FR	30		>10															Calcite-healed fractures occur at 20 to core axis at a density of >10/m.	
									VL	20		1															White calcite veinlets with dark brown borders occur at 20 to core axis and 0 to fracturing, at a density of 1/m.	
155.45						EOH																						

GEOTECHNICAL LOG

HOLE: PM-11-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
0.00	0.75	OVB								
0.75	1.52	0.77	0.63	82	0.14	18	VW	HW	7.5YR 4/3	
1.52	3.05	1.53	1.15	75	0.56	37	VS	MW	7.5YR 4/3	
3.05	4.57	1.52	1.25	82	0.13	9	VS	MW	7.5YR 4/3	
4.57	6.10	1.53	1.16	76	0.30	20	VS	MW	7.5YR 4/3	
6.10	7.62	1.52	1.47	97	1.01	66	VS	SW	7.5YR 4/3	
7.62	9.14	1.52	1.19	78	0.71	47	VS	SW	7.5YR 4/3	
9.14	10.67	1.53	1.30	85	0.99	65	VS	SW	7.5YR 4/3	
10.67	12.19	1.52	1.40	92	1.00	66	VS	SW	10YR 6/4	
12.19	13.72	1.53	1.49	97	1.23	80	VS	SW	10YR 6/4	
13.72	15.24	1.52	1.38	91	0.20	13	S	MW	10YR 6/4	
15.24	16.76	1.52	1.45	95	1.04	68	VS	SW	10YR 6/4	
16.76	18.29	1.53	1.44	94	1.34	88	VS	SW	10YR 6/4	
18.29	19.81	1.52	1.46	96	0.67	44	VS	MW	10YR 6/4	
19.81	21.34	1.53	1.45	95	1.22	80	VS	SW	10YR 6/4	
21.34	22.86	1.52	1.46	96	1.23	81	VS	SW	10YR 6/4	
22.86	24.38	1.52	1.52	100	1.42	93	VS	SW	10YR 6/4	
24.38	25.91	1.53	1.53	100	1.27	83	VS	SW	10YR 6/4	
25.91	27.43	1.52	1.36	89	0.82	54	VS	SW	10YR 6/4	
27.43	28.96	1.53	1.43	93	1.05	69	VS	MW	7.5YR 4/3	
28.96	30.48	1.52	1.47	97	1.47	97	VS	SW	7.5YR 4/3	
30.48	32.00	1.52	1.45	95	1.32	87	S	SW	7.5YR 4/3	
32.00	33.53	1.53	1.47	96	1.36	89	VS	SW	7.5YR 4/3	
33.53	35.05	1.52	1.46	96	1.18	78	S	SW	7.5YR 4/3	
35.05	36.58	1.53	1.42	93	0.96	63	MS	MW	7.5YR 4/3	
36.58	38.10	1.52	1.39	91	0.93	61	VS	MW	7.5YR 4/3	
38.10	39.62	1.52	1.49	98	1.28	84	VS	SW	7.5YR 4/3	
39.62	41.15	1.53	1.44	94	0.97	63	VS	SW	7.5YR 4/3	
41.15	42.67	1.52	1.40	92	1.40	92	ES	SW	7.5YR 4/3	
42.67	44.20	1.53	1.19	78	0.13	8	S	HW	7.5YR 4/3	
44.20	45.72	1.52	1.35	89	0.70	46	ES	SW	7.5YR 4/3	
45.72	47.24	1.52	1.52	100	1.39	91	ES	SW	5YR 5/4	
47.24	48.77	1.53	1.46	95	1.35	88	VS	FR		
48.77	50.29	1.52	1.09	72	0.86	57	S	SW	7.5YR 6/6	
50.29	51.82	1.53	1.47	96	0.89	58	VW	EW	7.5YR 4/4	
51.82	53.34	1.52	1.38	91	1.22	80	VS	FR		
53.34	54.86	1.52	1.31	86	1.28	84	VS	SW	7.5YR 6/6	
54.86	57.91	3.05	3.05	100	2.70	89	VS	SW	7.5YR 6/6	
57.91	59.44	1.53	1.52	99	1.36	89	S	SW	7.5YR 6/6	
59.44	60.96	1.52	1.33	87	1.19	78	S	SW	7.5YR 6/6	
60.96	62.48	1.52	1.14	75	0.76	50	S	SW	7.5YR 6/6	
62.48	64.01	1.53	1.30	85	0.90	59	VS	SW	7.5YR 6/6	
64.01	65.53	1.52	1.45	95	1.31	86	VS	SW	7.5YR 6/6	
65.53	67.06	1.53	1.53	100	1.53	100	VS	SW	7.5YR 6/6	
67.06	68.58	1.52	1.52	100	1.52	100	VS	FR	NA	
68.58	70.10	1.52	1.52	100	1.36	89	VS	SW	2.5YR 4/1	
70.10	71.63	1.53	1.52	99	1.52	99	VS	SW	2.5YR 4/1	
71.63	73.15	1.52	1.48	97	1.10	72	VS	MW	2.5YR 4/1	
73.15	74.68	1.53	1.34	88	1.04	68	S	MW	2.5YR 4/1	
74.68	76.20	1.52	1.38	91	1.16	76	VS	SW	2.5YR 4/1	
76.20	77.72	1.52	1.40	92	0.58	38	S	SW	7.5YR 6/6	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
77.72	79.25	1.53	1.51	99	1.28	84	S	SW	2.5YR 4/1	
79.25	80.77	1.52	1.27	84	0.40	26	S	MW	2.5YR 4/1	
80.77	82.30	1.53	1.53	100	1.39	91	VS	SW	7.5YR 6/6	
82.30	83.82	1.52	1.32	87	1.10	72	VS	SW	7.5YR 6/6	
83.82	85.34	1.52	1.40	92	1.21	80	VS	SW	7.5YR 6/6	
85.34	86.87	1.53	1.53	100	1.48	97	VS	SW	7.5YR 6/6	
86.87	88.39	1.52	1.52	100	1.52	100	VS	SW	7.5YR 6/6	
88.39	89.92	1.53	1.51	99	1.16	76	S	SW	7.5YR 6/6	
89.92	91.44	1.52	1.32	87	0.89	59	VS	MW	2.5YR 5/2	
91.44	92.96	1.52	1.52	100	1.10	72	VS	SW	7.5YR 6/6	
92.96	94.49	1.53	1.43	93	1.29	84	VS	SW	7.5YR 6/6	
94.49	96.01	1.52	1.52	100	1.30	86	S	SW	7.5YR 6/6	
96.01	97.54	1.53	1.37	90	1.25	82	VS	SW	7.5YR 4/4	
97.54	99.06	1.52	1.52	100	1.45	95	VS	SW	7.5YR 4/4	
99.06	100.58	1.52	1.30	86	1.30	86	VS	SW	5YR 5/6	
100.58	102.11	1.53	1.50	98	1.45	95	VS	MW	7.5YR 6/6	
102.11	103.63	1.52	1.49	98	1.49	98	S	SW	7.5YR 6/6	
103.63	105.16	1.53	1.39	91	0.68	44	MS	HW	5YR 4/4	
105.16	106.68	1.52	1.27	84	0.83	55	S	MW	5YR 4/4	
106.68	108.20	1.52	1.52	100	1.52	100	VS	SW	5YR 4/4	
108.20	109.73	1.53	1.38	90	1.23	80	VS	SW	5YR 4/4	
109.73	111.25	1.52	1.52	100	1.41	93	VS	MW	5YR 4/4	
111.25	112.78	1.53	1.53	100	1.53	100	VS	SW	5YR 4/4	
112.78	114.30	1.52	1.52	100	1.52	100	VS	MW	5YR 4/4	
114.30	115.82	1.52	1.44	95	1.44	95	VS	MW	5YR 3/1	
115.82	117.35	1.53	1.25	82	0.49	32	VS	MW	5YR 3/1	
117.35	118.87	1.52	1.51	99	1.33	87	VS	SW	5YR 3/1	
118.87	120.40	1.53	1.50	98	1.10	72	S	SW	5YR 3/1	
120.40	121.92	1.52	1.52	100	1.31	86	S	SW	5YR 3/1	
121.92	123.44	1.52	1.52	100	1.08	71	S	MW	5YR 3/3	
123.44	124.97	1.53	1.44	94	1.25	82	VS	MW	5YR 3/4	
124.97	126.49	1.52	1.29	85	0.75	49	VS	MW	5YR 3/4	
126.49	128.02	1.53	1.53	100	1.53	100	VS	SW	5YR 3/4	
128.02	129.54	1.52	1.50	99	1.50	99	VS	SW	5YR 3/4	
129.54	131.06	1.52	1.52	100	1.52	100	VS	SW	5YR 3/4	
131.06	132.59	1.53	1.43	93	1.26	82	VS	SW	5YR 3/1	
132.59	134.11	1.52	1.51	99	0.77	51	VS	HW	7.5YR 4/4	
134.11	135.64	1.53	1.33	87	0.31	20	VS	HW	7.5YR 4/4	
135.64	137.16	1.52	1.51	99	1.03	68	S	HW	5YR 3/1	
137.16	138.68	1.52	1.27	84	0.99	65	VS	HW	7.5YR 4/4	
138.68	140.21	1.53	1.53	100	1.40	92	VS	MW	5YR 3/1	
140.21	141.73	1.52	1.52	100	1.52	100	VS	HW	5YR 3/1	
141.73	143.26	1.53	1.53	100	1.53	100	VS	MW	5YR 3/1	
143.26	144.78	1.52	1.50	99	1.50	99	VS	SW	7.5YR 4/4	
144.78	146.30	1.52	1.52	100	1.50	99	VS	SW	7.5YR 4/4	
146.30	147.83	1.53	1.45	95	1.45	95	VS	SW	5YR 3/1	
147.83	149.35	1.52	1.50	99	1.46	96	VS	SW	5YR 5/4	
149.35	150.88	1.53	1.53	100	1.33	87	VS	SW	5YR 5/4	
150.88	152.40	1.52	1.52	100	1.49	98	VS	SW	5YR 5/4	
152.40	153.92	1.52	1.52	100	1.52	100	VS	SW	5YR 3/3	
153.92	155.45	1.53	1.52	99	1.40	92	VS	SW	5YR 3/3	
EOH										

SAMPLE LOG

HOLE: PM-11-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
1.52	4.57	3.05	2.40		I383416	25	0.04	0.44	69	115	
4.57	7.62	3.05	2.63		I383417	25	0.02	0.91	386	456	
7.62	10.67	3.05	2.58		I383418	25	0.01	0.37	67	163	
-	-		-		I383419	25	0.01	0.45	70	179	Duplicate
10.67	11.63	0.96	0.75		I383420	25	0.01	0.32	39	91	
11.63	12.19	0.56	0.66		I383421	25	0.03	0.49	72	154	
24.38	27.43	3.05	2.89		I383422	25	<0.01	0.18	20	87	
27.43	30.48	3.05	2.90		I383423	25	<0.01	0.14	23	122	
30.48	33.53	3.05	2.92		I383424	25	0.01	0.32	30	142	
33.53	35.05	1.52	1.46		I383425	25	<0.01	0.08	10	40	
35.05	36.38	1.33	1.42		I383426	25	<0.01	0.11	14	43	
36.38	39.62	3.24	2.88		I383427	25	<0.01	5.76	17	50	
39.62	41.15	1.53	1.44		I383428	25	0.01	0.27	17	61	
41.15	44.20	3.05	1.40		I383429	25	0.15	0.43	12	39	
44.20	47.24	3.04	3.87		I383430	25	0.03	0.27	20	68	
47.24	50.29	3.05	2.55		I383431	25	0.01	0.70	47	78	
50.29	50.88	0.59	0.62		I383432	25	0.18	13.80	4770	4770	
-	-		-		I383433	25	<0.01	0.19	11	25	Blank
-	-		-		I383434	25	2.97	1.70	216	353	Standard ROS-3
50.88	51.82	0.94	0.93		I383435	25	0.03	2.59	148	262	
70.10	72.32	2.22	2.22		I383436	25	0.01	0.59	106	289	
72.32	74.68	2.36	2.18		I383437	25	0.01	1.30	270	631	
74.68	77.72	3.04	2.78		I383438	25	<0.01	0.41	97	165	
77.72	80.77	3.05	2.78		I383439	25	0.01	1.24	641	612	
80.77	82.30	1.53	1.53		I383440	25	<0.01	0.66	215	221	
82.30	83.82	1.52	1.32		I383441	25	0.01	0.68	199	171	
83.82	86.87	3.05	2.93		I383442	25	<0.01	0.84	92	242	
86.87	89.21	2.34	2.34		I383443	25	0.01	0.34	53	178	
89.21	90.94	1.73	1.48		I383444	25	0.09	3.12	771	1290	
-	-		-		I383445	25	<0.01	0.03	3	21	Blank
90.94	92.96	2.02	1.92		I383446	25	0.04	2.02	228	461	
92.96	94.49	1.53	1.43		I383447	25	0.04	1.42	110	286	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
100.58	102.11	1.53	1.50		I383448	25	<0.01	0.42	37	184	
-	-		-		I383449	25	0.33	1.65	112	453	Standard RSS-5
102.11	104.13	2.02	1.97		I383450	25	<0.01	0.94	214	1030	
104.13	105.16	1.03	0.90		I383451	25	0.03	1.32	1210	1750	
105.16	108.20	3.04	2.79		I383452	26	0.02	1.07	720	1260	
108.20	111.25	3.05	2.90		I383453	26	0.02	1.80	398	1480	
111.25	114.30	3.05	3.05		I383454	26	0.01	1.43	149	1460	
114.30	117.35	3.05	2.89		I383455	26	0.08	1.60	241	1480	
117.35	120.40	3.05	3.01		I383456	26	<0.01	0.59	106	586	
120.40	123.44	3.04	3.04		I383457	26	0.01	0.54	121	515	
123.44	126.49	3.05	2.93		I383458	26	0.01	1.66	421	1360	
126.49	129.54	3.05	3.03		I383459	26	0.01	1.87	247	1590	
129.54	132.59	3.05	2.95		I383460	26	0.02	1.61	185	1670	
132.59	135.64	3.05	2.84		I383461	26	0.14	4.60	1210	2580	
135.64	138.68	3.04	2.78		I383462	26	0.04	2.09	568	2320	
138.68	141.73	3.05	3.05		I383463	26	0.03	1.28	654	4680	
141.73	143.26	1.53	1.53		I383464	26	0.01	0.60	195	1480	
143.26	146.30	3.04	3.02		I383465	26	0.01	0.77	198	636	
146.30	149.35	3.05	2.95		I383466	26	<0.01	0.51	138	430	

DENSITY LOG

HOLE: PM-11-01

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: PM-11-01

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			0.08	
2.00			0.00	
3.00			0.03	
4.00			0.03	
5.00			0.07	
6.00			0.05	
7.00			0.06	
8.00			0.03	
9.00			0.01	
10.00			0.00	
11.00			0.07	
12.00			0.03	
13.00			0.03	
14.00			0.00	
15.00			0.03	
16.00			0.01	
17.00			0.03	
18.00			0.07	
19.00			0.01	
20.00			0.03	
21.00			0.01	
22.00			0.01	
23.00			0.01	
24.00			0.05	
25.00			0.01	
26.00			0.01	
27.00			0.00	
28.00			0.01	
29.00			0.03	
30.00			0.03	
31.00			0.01	
32.00			0.00	
33.00			0.05	
34.00			0.03	
35.00			0.03	
36.00			0.03	
37.00			0.09	
38.00			0.00	
39.00			0.05	
40.00			0.03	
41.00			0.01	
42.00			0.05	
43.00			0.07	
44.00			0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.01	
46.00			0.07	
47.00			0.03	
48.00			0.06	
49.00			0.05	
50.00			0.03	
51.00			0.01	
52.00			0.06	
53.00			0.03	
54.00			0.01	
55.00			0.00	
56.00			0.05	
57.00			0.01	
58.00			0.03	
59.00			0.10	
60.00			0.03	
61.00			0.03	
62.00			0.05	
63.00			0.06	
64.00			0.01	
65.00			0.05	
66.00			0.05	
67.00			0.15	
68.00			0.06	
69.00			0.13	
70.00			0.08	
71.00			0.08	
72.00			0.03	
73.00			0.01	
74.00			0.05	
75.00			0.16	
76.00			0.03	
77.00			0.11	
78.00			0.08	
79.00			0.11	
80.00			0.26	
81.00			0.05	
82.00			0.05	
83.00			0.20	
84.00			0.01	
85.00			0.35	
86.00			0.05	
87.00			0.23	
88.00			0.03	
89.00			0.01	
90.00			0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			0.23	
92.00			0.08	
93.00			0.05	
94.00			0.08	
95.00			0.08	
96.00			0.06	
97.00			0.01	
98.00			0.01	
99.00			0.05	
100.00			0.06	
101.00			0.03	
102.00			0.06	
103.00			0.30	
104.00			0.01	
105.00			0.10	
106.00			0.00	
107.00			0.18	
108.00			0.18	
109.00			0.01	
110.00			0.00	
111.00			0.18	
112.00			0.03	
113.00			0.08	
114.00			0.18	
115.00			0.06	
116.00			0.10	
117.00			0.01	
118.00			0.06	
119.00			0.05	
120.00			0.18	
121.00			0.03	
122.00			0.00	
123.00			0.08	
124.00			0.13	
125.00			0.21	
126.00			0.08	
127.00			0.06	
128.00			0.06	
129.00			0.10	
130.00			0.05	
131.00			0.20	
132.00			0.21	
133.00			0.28	
134.00			0.03	
135.00			0.13	
136.00			0.50	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00			0.03	
138.00			0.10	
139.00			0.20	
140.00			0.40	
141.00			0.11	
142.00			0.16	
143.00			0.26	
144.00			0.18	
145.00			0.11	
146.00			0.06	
147.00			0.11	
148.00			0.35	
149.00			0.06	
150.00			0.05	
151.00			0.05	
152.00			0.26	
153.00			0.10	
154.00			0.01	
155.00			0.06	

BOX LOG

HOLE: PM-11-01

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.75	4.36	36	140.03	143.90
2	4.36	8.15	37	143.90	148.05
3	8.15	12.19	38	148.05	151.98
4	12.19	16.10	39	151.98	155.45
5	16.10	20.06			
6	20.06	24.26			
7	24.26	28.16			
8	28.16	32.00			
9	32.00	35.96			
10	35.96	39.62			
11	39.62	43.65			
12	43.65	47.51			
13	47.51	51.59			
14	51.59	55.64			
15	55.64	59.44			
16	59.44	63.59			
17	63.59	67.77			
18	67.77	71.63			
19	71.63	75.51			
20	75.51	79.54			
21	79.54	83.44			
22	83.44	87.64			
23	87.64	91.44			
24	91.44	95.45			
25	95.45	99.78			
26	99.78	103.63			
27	103.63	107.64			
28	107.64	111.81			
29	111.81	116.04			
30	116.04	120.25			
31	120.25	124.09			
32	124.09	128.15			
33	128.15	132.39			
34	132.39	136.01			
35	136.01	140.03			

RAU PROPERTY

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		525067	7121815	1756	185.93

ZONE: PUMA

SECTION: _____

HOLE: PM-11-02

CLAIM: YC68898

Contractor: Superior

Drill: _____

Core size: HQ

Casing depth: 3.05 (m) out

Drilling dates: August 5 to 7, 2011

Geology logged by: G. Titley

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	340	-60.0	compass	140.21	344.6	-57.8	Ranger
64.01	343.9	-57.1	Ranger	155.45	345.4	-57.6	Ranger
79.25	344.2	-57.2	Ranger	170.69	345.8	-57.9	Ranger
94.49	343.7	-57.4	Ranger	185.50	346.3	-58.1	Ranger

TARGET: _____

[illegible]

SAMPLES
Numbers: I383467 to I383539
Total: 73
Batch: 26, 27, 28
Certificate: WH11164057, WH11164056, WH11169077

COMMENTS	

GEOLOGY LOG

HOLE: PM-11-02

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (fta)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
0.00	4.46	4.46				OVB																				Casing drilled, no recovery	
4.46	100.00	95.54				DOL			Bx				m					SIL	f							Mottled light to medium grey and light to dark brown fine-grained weak to strong dolomite altered limestone, with intermittent fine silica alteration and intermittent variable brecciation. Limestone is slightly to heavily weathered, and weathering is light brown to medium orange-brown and oovurs intermittently in fractures, on rubble, and through limestone. Core is generally competent to blocky, with periodic rubbly sections where weathering is greater. No bedding structures are apparent. Brown calcite-healed fracture occurs generally in the same direction, at 30-40 to core axis.	
									FR	35																	LST is light grey-brown and moderately to heavily weathered, with moderate dark brown calcite alteration occuring on fracture faces and in crackling.
			4.46	13.72	9.26													Ca	m							White silica veinlets with dark brown calcite borders follow fracture at less than 1 per metre	
									VL	35	0	<1														Light brown/dark brown contact at 40 to core axis.	
			8.95						CN	40																Red stilotite occurs at roughly 60 to core axis, and 90 to fractures and veinlets.	
			12.70						St	60	90															Mottled orange, brown, and grey moderately weathered competent section	
			13.72	16.80	3.08																					White silica veinlet with dark brown calcite border.	
			14.20						VL																	Light grey-brow mottled strongly weathered section with rusty stilotites occuring at 30-40 to core axis, 90 to fracture, 2 per metre.	
			16.80	24.38	7.58				St	35	90	2														Orange, brown, and grey heavily weathered, moderately silica altered, blocky to rubbly section.	
			24.38	27.43	3.05																					Medium grey, alternating competent and blocky, intensely dolomite altered limestone, mottled with light grey dolomite. Periodically, tectonic brecciation with light grey dolomite infilling.	
			27.43	41.15	13.72				Bx									SIL	m							Moderate silica alteration throughout limestone and in small blobs	
									VL	80	90	3														Quartz/dolomite veinlets, 1mm thick, at 80 to core axis, 90 to fracture, 2-5 per metre.	
									VL	30	0	5														Quartz/dolomite veinlets, 1mm thick, at 30 to core axis, 0 to fracture, 5 per metre	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION		
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other				
																	Type	Intensity				Type	Intensity					
			27.75	27.85	0.10																						Light grey calcic mud.	
			41.15	62.88	21.73													SIL Ca	w w									Medium grey and medium brown, alternating blocky to competent heavily weathered to slightly weathered section with light grey dolomite and silica crackling, and more recent dark brown calcite and dark grey silica crackling.
			42.23	42.67	0.44				VN																		Blocky to rubbly quartz vein, with intense dark brown calcite crackling. Orientation not apparent.	
			46.52	46.93	0.41				VN	60																	Blocky quartz vein with intense dark brown calcite mineralization at 60 to core axis.	
			47.06	47.24	0.18																						Rubbly orange and white heavily weathered quartz vein. Orientation not apparent.	
			47.24	48.00	0.76												Ca	i									Dark brown-orange heavily weathered, intensely calcite altered section.	
			61.75	62.28	0.53																						Rusty brown heavily weathered, rubbly section	
			62.88	73.74	10.86	DOL																					Light to medium grey intensely dolomite altered limestone. Slightly weathered throughout with intermittent sections of moderate weathering. Core is blocky to compoetent, fine to medium grained. Intermittent crackle brecciation with weak calcite infilling. Weathering is brown to orange.	
			73.74	100.00	26.26																						Light to medium grey, weakly dolomite altered limestone with intermittent medium brown crackle brecciation with dark brown calcite infilling on competent core. Fine to medium grained, slightly orange/brown weathered fracture faces.	
			73.74	76.85	3.11				FR	20																	20 to core axis orientation of calcite healed fractures Medium brown section as general description. Moderately weathered orange to brown.	
			76.85	84.00	7.15																						Light to medium grey competent section as general description.	
			84.00	86.87	2.87																						Limestone is medium brown with a higher frequency of dark brown calcite veinlets crosscutting dolomite veins at 20 to core axis. At 84.00 m, medium-grained calcite appears in vugs within the calcite vein	
			86.87	91.78	4.91																						Medium to light grey limestone with white to light grey dolomite infilling. Darker brown calcite crosscuts dolomite. Slightly weathered.	
			91.78	94.35	2.57																						Light to medium, moderately weathered, as section above.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity				
			94.35	96.01	1.66																					Medium grey, competent with dark brown healed fractures	
			96.01	100.00	3.99																					Medium grey, moderately weathered	
100.00	118.58	18.58				DOL		Mo					w					WEA	m							Light to dark brown rubbly to muddy weakly dolomite altered limestone. Moderately strong orange weathering. Limestone is mottled with dark brown calcite infillings. Healed fractures generally occur in the same direction at 20 to core axis.	
								Bx																			
118.58	150.56	31.98				DOL		tBx																		Medium grey to light and medium brown weakly dolomite altered limestone. Slightly to moderately orange/brown weathering. Dark brown calcite breccia from crackle to tectonic. Tectonic breccia features clast size around 7mm ranging from sub-rounded to sub-angular. Lighter clasts consist of limestone, matrix consists of dark brown calcite. Edlges(sp?) of tectonic breccia regions change to mosaic breccia and gradually to crackle breccia. Mosaic breccia features clasts up to 7mm with light clasts consisting of limestone and the darker matrix consisting of calcite. White, medium- to coarse-grained calcite veinlets occur overprinting breccia textures preferentially withing the more strongly brecciated regions. Up to 3cm wide vugs are visible within calcite veinlets revealing coare-grained calcite crystals within. Tectonic breccia is associated with more intese weathering. Black, soft mineral that doesn't fizz with HCl is visible in weakly brecciated sections preferentially replaced by white/brown dolomite altered limestone.	
								mBx																			
								cBx																			
			128.29	129.75	1.46																					As general description, except very strongly orange weathered.	
			134.50																							White calcite veinlet at 15 to core axis 3cm wide, crosscutting darker brown calcite veinlets.	
			140.90	141.50	0.60																					White calcite veinlet at 10 to core axis occurs crosscutting darker calcite veinlets.	
			148.10	150.40	2.30																					A soft black mineral that doesn't fizz with HCl is mottled throughout the limestone. The black mineral seems to be overprinted by limestone.	

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Dolomite	Quartz	Graphite	Clay	Other		Pyrite	Galena	Sphalerite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
150.56	185.93	35.37				DOL		tBx mBx	VL	17									f					Ca	t	Light brown to medium grey, intensely dolomite altered limestone with healed fractures of dark brown calcite. Orientation of fractures ranges from 15-20 to core axis, and is consistent throughout core. Breccia textures range from tectonic to mosaic and is intermittent throughout, with dark grey sub-angular calsts of dolomite in a matrix of light grey limestone. White calcite veinlets are present in trace amounts with indeterminate orientation. Core is prominently competent, with a few blocky sections exhibiting slight orange/brown weathering on fracture faces.	
			161.30	161.50	0.20																			Ca	s	Dense section of white calcite veinlets with indeterminate orientation, up to 0.5cm thick	
			169.40	175.26	5.86			tBx mBx																		Breccia textures apparent, ranging from tectonic to mosaic, as general description above. Light brown dolomite (siderite?) replacing medium grey limestone. Recrystallization of dolomite.	
			182.00	182.76	0.76																					A section of rubbly core with moderately strong weathering appearing as an orange/brown coating on fracture faces.	
185.93						EOH												WEA MS									

GEOTECHNICAL LOG

HOLE: PM-11-02

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
0.00	1.52	1.52	0.70	46	0	0	S	MW	5YR 5/6	
1.52	3.05	1.53	1.08	71	0.41	27		MW	5YR 5/6	
3.05	4.57	1.52	1.28	84	0.85	56		MW	5YR 4/1	
4.57	6.10	1.53	1.30	85	0.79	52		MW	5YR 4/1	
6.10	7.62	1.52	1.26	83	0.59	39		MW	5YR 4/1	
7.62	9.14	1.52	1.24	82	0.57	38		MW	5YR 4/1	
9.14	10.67	1.53	1.50	98	0.93	61	MS	MW	5YR 4/1	
10.67	12.19	1.52	1.33	88	1.12	74	VS	SW	5YR 4/1	
12.19	13.72	1.53	1.36	89	0.82	54	VS	SW	5YR 4/1	
13.72	15.24	1.52	1.52	100	1.39	91	VS	SW	5YR 5/6	
15.24	16.76	1.52	1.52	100	1.52	100	VS	SW	5YR 5/6	
16.76	18.29	1.53	1.43	93	1.23	80	VS	MW	5YR 5/6	
18.29	19.81	1.52	1.48	97	1.42	93	VS	MW	5YR 5/6	
19.81	21.34	1.53	1.36	89	1.06	69	VS	MW	5YR 5/6	
21.34	22.86	1.52	1.41	93	1.08	71	VS	MW	5YR 6/6	
22.86	24.38	1.52	1.45	95	1.23	81	VS	MW	5YR 6/6	
24.38	25.91	1.53	1.41	92	1.08	71	VS	MW	5YR 4/1	
25.91	27.43	1.52	1.20	79	0.92	61	VS	MW	7.5YR 7/4	
27.43	28.96	1.53	1.42	93	0.59	39	VS	HW	7.5YR 7/4	
28.96	30.48	1.52	1.48	97	1.30	86	S	MW	7.5YR 7/4	
30.48	32.00	1.52	1.43	94	1.23	81	VS	SW	10R 8/2	
32.00	33.53	1.53	1.40	92	1.08	71	VS	SW	10R 8/2	
33.53	35.05	1.52	1.52	100	1.38	91	VS	FR	N/A	
35.05	36.58	1.53	1.35	88	1.19	78	VS	SW	5YR 5/6	
36.58	38.10	1.52	1.49	98	0.85	56	VS	SW	5YR 5/6	
38.10	39.62	1.52	1.23	81	0.85	56	VS	SW	7.5YR 7/4	
39.62	41.15	1.53	1.49	97	0.83	54	VS	SW	5YR 5/6	
41.15	42.67	1.52	1.38	91	0.98	64	VS	SW	7.5YR 5/6	
42.67	44.20	1.53	1.30	85	0.87	57	VS	MW	7.5YR 5/6	
44.20	45.72	1.52	1.52	100	1.18	78	VS	MW	7.5YR 5/6	
45.72	47.24	1.52	1.33	87	0.97	64	VS	HW	7.5YR 5/6	
47.24	48.77	1.53	1.32	86	1.20	78	VS	HW	7.5YR 5/6	
48.77	50.29	1.52	1.50	99	1.50	99	S	SW	7.5YR 5/6	
50.29	51.82	1.53	1.49	97	1.31	86	S	SW	7.5YR 5/6	
51.82	53.34	1.52	1.52	100	1.33	87	VS	SW	5YR 5/8	
53.34	54.86	1.52	1.52	100	1.38	91	VS	SW	5YR 4/1	
54.86	56.39	1.53	1.15	75	1.05	69	VS	SW	5YR 4/1	
56.39	57.91	1.52	1.52	100	1.32	87	VS	SW	5YR 4/1	
57.91	59.44	1.53	1.52	99	1.36	89	S	SW	5YR 4/4	
59.44	60.96	1.52	1.29	85	0.96	63	VS	MW	5YR 6/8	
60.96	62.48	1.52	1.28	84	1.01	66	VS	MW	5YR 6/6	
62.48	64.01	1.53	1.50	98	1.21	79	VS	SW	5YR 4/1	
64.01	65.53	1.52	1.52	100	1.52	100	S	SW	5YR 4/1	
65.53	67.06	1.53	1.41	92	1.11	73	S	SW	10R 5/3	
67.06	68.58	1.52	1.28	84	1.04	68	S	SW	7.5YR 6/8	
68.58	70.10	1.52	1.43	94	1.18	78	S	MW	7.5YR 7/4	
70.10	71.63	1.53	1.41	92	1.12	73	S	SW	2.5YR 3/3	
71.63	73.15	1.52	1.52	100	1.22	80	S	SW	2.5YR 3/3	
73.15	74.68	1.53	1.40	92	0.94	61	S	MW	7.5YR 4/3	
74.68	76.20	1.52	1.42	93	1.01	66	S	MW	7.5YR 4/3	
76.20	77.72	1.52	1.52	100	1.07	70	S	MW	7.5YR 4/3	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
77.72	79.25	1.53	1.44	94	0.90	59	S	MW	7.5YR 4/3	
79.25	80.77	1.52	1.33	88	0.88	58	S	SW	7.5YR 7/4	
80.77	82.30	1.53	1.52	99	1.47	96	S	SW	7.5YR 3/2	
82.30	83.82	1.52	1.52	100	1.43	94	S	SW	7.5YR 3/2	
83.82	85.34	1.52	1.39	91	1.28	84	S	MW	7.5YR 3/2	
85.34	86.87	1.53	1.53	100	1.53	100	S	SW	7.5YR 3/2	
86.87	88.39	1.52	1.48	97	1.20	79	S	SW	5YR 6/8	
88.39	89.92	1.53	1.53	100	1.32	86	S	SW	7.5YR 3/2	
89.92	91.44	1.52	1.44	95	1.09	72	S	SW	7.5YR 3/2	
91.44	92.96	1.52	1.42	93	1.01	66	MS	MW	7.5YR 3/2	
92.96	94.49	1.53	1.35	88	0.90	59	MS	MW	7.5YR 3/2	
94.49	96.01	1.52	1.50	99	1.38	91	MS	SW	7.5YR 3/2	
96.01	97.54	1.53	1.31	86	1.23	80	MS	MW	7.5YR 3/2	
97.54	99.06	1.52	1.52	100	1.43	94	MS	MW	7.5YR 3/2	
99.06	100.58	1.52	1.07	70	0.45	30	MS	HW	7.5YR 5/6	
100.58	102.11	1.53	1.24	81	0.25	16	MS	MW	7.5YR 5/6	
102.11	103.63	1.52	0.94	62	0.00	0	W	HW	7.5YR 5/6	
103.63	105.16	1.53	1.00	65	0.00	0	W	HW	7.5YR 3/3	
105.16	106.68	1.52	1.09	72	0.00	0	W	HW	7.5YR 3/3	
106.68	108.20	1.52	1.08	71	0.00	0	W	HW	7.5YR 3/3	
108.20	109.73	1.53	1.11	73	0.13	8	W	HW	7.5YR 3/3	
109.73	111.25	1.52	1.39	91	0.12	8	W	HW	7.5YR 3/3	
111.25	112.78	1.53	1.25	82	0.00	0	W	HW	7.5YR 3/3	
112.78	114.30	1.52	1.36	89	0.25	16	MS	HW	7.5YR 3/3	
114.30	115.82	1.52	1.06	70	0.33	22	MS	MW	7.5YR 3/3	
115.82	117.35	1.53	1.38	90	0.57	37	MS	HW	7.5YR 3/3	
117.35	118.87	1.52	1.05	69	0.26	17	W	HW	7.5YR 3/3	
118.87	120.40	1.53	1.37	90	0.37	24	MS	MW	7.5YR 3/3	
120.40	121.92	1.52	1.26	83	0.91	60	S	MW	7.5YR 3/3	
121.92	123.44	1.52	1.47	97	0.78	51	S	MW	7.5YR 3/3	
123.44	124.97	1.53	1.42	93	1.22	80	S	MW	7.5YR 5/4	
124.97	126.49	1.52	1.24	82	0.71	47	S	MW	7.5YR 5/4	
126.49	128.02	1.53	1.36	89	1.27	83	S	MW	7.5YR 5/4	
128.02	129.54	1.52	1.47	97	1.08	71	S	MW	7.5YR 3/3	
129.54	131.06	1.52	1.42	93	1.25	82	S	MW	7.5YR 3/3	
131.06	132.59	1.53	1.52	99	1.48	97	S	MW	7.5YR 3/3	
132.59	134.11	1.52	1.43	94	1.43	94	S	MW	7.5YR 3/3	
134.11	135.64	1.53	1.29	84	1.02	67	S	MW	7.5YR 3/3	
135.64	137.16	1.52	1.52	100	0.52	34	S	MW	7.5YR 3/3	
137.16	138.68	1.52	1.40	92	1.05	69	S	SW	7.5YR 3/3	
138.68	140.21	1.53	1.44	94	1.24	81	S	SW	7.5YR 3/3	
140.21	141.73	1.52	1.32	87	1.15	76	S	SW	2.5YR 7/1	
141.73	143.26	1.53	1.48	97	1.29	84	S	SW	2.5YR 7/1	
143.26	144.78	1.52	1.05	69	0.42	28	S	HW	2.5YR 7/1	
144.78	146.30	1.52	1.39	91	1.11	73	S	SW	2.5YR 7/1	
146.30	147.83	1.53	1.52	99	1.35	88	S	SW	7.5YR 7/2	
147.83	149.35	1.52	1.52	100	1.52	100	S	SW	2.5YR 7/1	
149.35	150.88	1.53	1.52	99	1.52	99	S	SW	2.5YR 7/1	
150.88	152.40	1.52	1.50	99	1.50	99	S	SW	2.5YR 7/1	
152.40	153.92	1.52	1.49	98	1.49	98	S	SW	2.5YR 7/1	
153.92	155.45	1.53	1.53	100	1.53	100	S	SW	2.5YR 4/4	
155.45	156.97	1.52	1.52	100	1.45	95	S	SW	2.5YR 4/4	
156.97	158.50	1.53	1.51	99	1.33	87	S	SW	2.5YR 4/4	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Colour	Comments
158.50	160.02	1.52	1.49	98	0.72	47	S	SW	2.5YR 4/4	
160.02	161.54	1.52	1.52	100	1.11	73	S	SW	7.5YR 5/3	
161.54	163.07	1.53	1.38	90	1.32	86	S	SW	7.5YR 4/3	
163.07	164.59	1.52	1.52	100	1.39	91	S	MW	7.5YR 4/3	
164.59	166.12	1.53	1.45	95	1.45	95	S	SW	7.5YR 4/3	
166.12	167.64	1.52	1.52	100	1.38	91	S	SW	7.5YR 3/1	
167.64	169.16	1.52	1.52	100	1.52	100	S	MW	7.5YR 3/1	
169.16	170.69	1.53	1.43	93	1.32	86	S	SW	7.5YR 3/1	
170.69	172.21	1.52	1.48	97	1.48	97	S	SW	2.5YR 4/1	
172.21	173.74	1.53	1.49	97	1.49	97	S	SW	2.5YR 4/1	
173.74	175.26	1.52	1.43	94	1.43	94	S	SW	2.5YR 4/1	
175.26	176.78	1.52	1.52	100	1.40	92	S	SW	2.5YR 4/1	
176.78	178.31	1.53	1.53	100	1.50	98	S	SW	2.5YR 3/1	
178.31	179.83	1.52	1.46	96	1.46	96	S	SW	2.5YR 3/1	
179.83	181.36	1.53	1.50	98	0.98	64	S	SW	5YR 5/8	
181.36	182.88	1.52	1.08	71	0.22	14	W	HW	5YR 6/3	
182.88	184.40	1.52	1.37	90	1.01	66	S	MW	2.5YR 7/1	
184.40	185.93	1.53	1.38	90	1.11	73	S	SW	5YR 7/1	
EOH										

SAMPLE LOG

HOLE: PM-11-02

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
4.57	7.62	3.05	2.56		I383467	26	0.03	0.74	207	227	
7.62	10.67	3.05	2.74		I383468	26	0.01	0.84	294	369	
10.67	13.72	3.05	2.69		I383469	26	0.01	0.27	40	106	
13.72	16.76	3.04	3.04		I383470	26	0.06	1.17	109	203	
16.76	19.81	3.05	2.91		I383471	26	0.02	0.49	45	148	
19.81	22.86	3.05	2.77		I383472	26	0.03	0.61	77	160	
22.86	25.91	3.05	2.86		I383473	26	0.01	0.32	25	69	
					I383474	26	0.01	0.31	27	71	Duplicate
					I383475	26	<0.01	0.07	3	18	Blank HQ
25.91	27.43	1.52	1.20		I383476	26	0.05	1.12	22	78	
39.62	41.15	1.53	1.49		I383477	26	0.01	0.13	11	60	
41.15	44.20	3.05	2.68		I383478	26	0.02	0.19	31	114	
44.20	47.24	3.04	2.85		I383479	26	0.53	0.55	74	293	
47.24	48.10	0.86	0.82		I383480	26	1.55	3.89	118	512	
					I383481	26	<0.01	0.11	2	20	Blank HQ
48.10	50.29	2.19	2.02		I383482	26	0.01	0.41	77	235	
					I383483	26	0.37	6.89	14	27	Standard ROS-1
50.29	53.34	3.05	3.01		I383484	26	0.02	0.59	151	186	
53.34	56.39	3.05	2.67		I383485	26	<0.01	0.13	30	99	
56.39	59.44	3.05	3.03		I383486	26	<0.01	0.18	82	211	
					I383487	26	0.42	1.70	113	446	Standard RSS-5
59.44	62.48	3.04	2.57		I383488	27	<0.01	0.37	115	405	
73.74	76.65	2.91	2.60		I383489	27	0.02	1.68	809	2330	
76.65	79.25	2.60	2.53		I383490	27	<0.01	0.36	174	747	
79.25	82.30	3.05	2.85		I383491	27	0.01	0.43	149	462	
82.30	83.94	1.64	1.63		I383492	27	0.02	0.50	122	641	
83.94	85.54	1.60	1.48		I383493	27	<0.01	2.58	1490	2770	
85.54	88.39	2.85	2.80		I383494	27	<0.01	0.77	63	655	
88.39	89.92	1.53	2.85		I383495	27	<0.01	0.22	103	602	
89.92	91.74	1.82	1.74		I383496	27	0.10	0.46	72	489	
					I383497	27	1.86	0.39	9	66	Standard
91.74	94.49	2.75	1.47		I383498	27	<0.01	2.51	311	1190	
94.49	96.20	1.71	1.71		I383499	27	0.01	0.74	164	439	
96.20	97.23	1.03	0.81		I383500	27	0.17	5.95	1830	1930	
97.23	99.28	2.05	2.10		I383501	27	0.11	3.61	1355	1980	
99.28	102.11	2.83	2.10		I383502	27	0.11	5.87	2120	1900	
102.11	103.63	1.52	0.94		I383503	27	0.20	4.51	179	371	
					I383504	27	1.63	0.60	176	150	Standard
103.63	106.68	3.05	2.09		I383505	27	0.57	8.58	2290	2420	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Batch	Au (g/t)	Ag (g/t)	Pb (ppm)	Zn (ppm)	Comments
106.68	109.73	3.05	2.19		I383506	27	0.52	9.33	3510	2870	
109.73	112.78	3.05	2.64		I383507	27	0.21	11.40	1030	777	
112.78	114.98	2.20	1.80		I383508	27	0.07	4.27	3540	2580	
112.78	114.98	2.20	1.80		I383509	27	0.06	4.62	4450	3190	Duplicate
					I383510	27	<0.01	0.02	12	26	Blank HQ
114.98	117.35	2.37	2.60		I383511	27	0.11	5.33	1545	2450	
117.35	118.87	1.52	0.75		I383512	27	0.12	3.65	609	995	
118.87	120.40	1.53	1.37		I383513	27	0.03	1.66	606	1630	
120.40	123.44	3.04	2.73		I383514	27	0.02	2.34	2330	2350	
123.44	126.49	3.05	2.66		I383515	27	0.02	2.68	1990	2850	
126.49	128.30	1.81	1.64		I383516	27	0.01	1.83	402	1280	
128.30	129.82	1.52	1.49		I383517	27	0.04	9.85	1995	5340	
					I383518	27	<0.01	0.14	8	32	Blank HQ
129.82	132.59	2.77	2.94		I383519	27	<0.01	1.46	468	1580	
132.59	135.64	3.05	2.72		I383520	27	0.01	1.99	674	1540	
135.64	137.16	1.52	1.52		I383521	27	0.01	2.28	693	1540	
137.16	140.21	3.05	2.84		I383522	27	<0.01	0.34	91	507	
140.21	143.26	3.05	2.80		I383523	27	<0.01	0.30	113	367	
143.26	144.31	1.05	0.57		I383524	27	0.02	2.36	197	1000	
144.31	146.30	1.99	1.87		I383525	28	<0.01	0.21	35	99	
146.30	148.07	1.77	1.80		I383526	28	<0.01	0.31	82	156	
148.07	150.35	2.28	2.32		I383527	28	0.09	0.95	158	320	
150.35	152.40	2.05	1.98		I383528	28	<0.01	0.26	65	138	
160.02	163.07	3.05	2.89		I383529	28	0.01	0.77	119	430	
163.07	166.12	3.05	2.97		I383530	28	0.01	0.29	108	302	
166.12	169.16	3.04	3.04		I383531	28	<0.01	0.20	82	262	
169.16	172.21	3.05	2.91		I383532	28	<0.01	0.14	59	196	
172.21	174.66	2.45	1.27		I383533	28	0.01	0.49	129	367	
174.66	176.78	2.12	2.12		I383534	28	<0.01	0.24	55	176	
176.78	179.83	3.05	2.99		I383535	28	0.01	0.42	143	465	
179.83	181.36	1.53	1.50		I383536	28	<0.01	0.72	320	2110	
181.36	182.88	1.52	1.08		I383537	28	0.02	2.18	1080	1480	
					I383538	28	<0.01	0.01	6	27	Blank HQ
182.88	184.40	1.52	1.37		I383539	28	<0.01	0.25	50	278	

DENSITY LOG

HOLE: PM-11-02

[illegible]

MAGNETIC SUSCEPTIBILITY LOG

HOLE: PM-11-02

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00			0.05	
2.00			0.00	
3.00			0.03	
4.00			0.01	
5.00			0.07	
6.00			0.01	
7.00			0.01	
8.00			0.07	
9.00			0.03	
10.00			0.01	
11.00			0.09	
12.00			0.07	
13.00			0.09	
14.00			0.03	
15.00			0.21	
16.00			0.18	
17.00			0.07	
18.00			0.03	
19.00			0.03	
20.00			0.05	
21.00			0.09	
22.00			0.03	
23.00			0.07	
24.00			0.07	
25.00			0.12	
26.00			0.14	
27.00			0.29	
28.00			0.10	
29.00			0.09	
30.00			0.01	
31.00			0.16	
32.00			0.07	
33.00			0.14	
34.00			0.01	
35.00			0.21	
36.00			0.09	
37.00			0.05	
38.00			0.01	
39.00			0.09	
40.00			0.14	
41.00			0.03	
42.00			0.03	
43.00			0.12	
44.00			0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00			0.05	
46.00			0.01	
47.00			0.10	
48.00			0.21	
49.00			0.05	
50.00			0.03	
51.00			0.21	
52.00			0.05	
53.00			0.01	
54.00			0.05	
55.00			0.09	
56.00			0.03	
57.00			0.07	
58.00			0.01	
59.00			0.14	
60.00			0.10	
61.00			0.05	
62.00			0.05	
63.00			0.29	
64.00			0.16	
65.00			0.09	
66.00			0.18	
67.00			0.11	
68.00			0.06	
69.00			0.06	
70.00			0.03	
71.00			0.00	
72.00			0.05	
73.00			0.05	
74.00			0.00	
75.00			0.30	
76.00			0.01	
77.00			0.08	
78.00			0.03	
79.00			0.01	
80.00			0.01	
81.00			0.11	
82.00			0.10	
83.00			0.10	
84.00			0.15	
85.00			0.01	
86.00			0.08	
87.00			0.21	
88.00			0.01	
89.00			0.01	
90.00			0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00			0.01	
92.00			0.12	
93.00			0.50	
94.00			0.01	
95.00			0.00	
96.00			0.06	
97.00			0.03	
98.00			0.00	
99.00			0.05	
100.00			0.21	
101.00			0.03	
102.00			0.03	
103.00			0.05	
104.00			0.00	
105.00			0.03	
106.00			0.03	
107.00			0.10	
108.00			0.03	
109.00			0.16	
110.00			0.10	
111.00			0.01	
112.00			0.00	
113.00			0.06	
114.00			0.10	
115.00			0.01	
116.00			0.05	
117.00			0.25	
118.00			0.08	
119.00			0.11	
120.00			0.16	
121.00			0.05	
122.00			0.10	
123.00			0.06	
124.00			0.00	
125.00			0.05	
126.00			0.16	
127.00			0.01	
128.00			0.03	
129.00			0.08	
130.00			0.05	
131.00			0.13	
132.00			0.23	
133.00			0.06	
134.00			0.03	
135.00			0.05	
136.00			0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
137.00			0.03	
138.00			0.08	
139.00			0.06	
140.00			0.01	
141.00			0.03	
142.00			0.00	
143.00			0.01	
144.00			0.05	
145.00			0.01	
146.00			0.00	
147.00			0.00	
148.00			0.00	
149.00			0.05	
150.00			0.15	
151.00				
152.00			0.25	
153.00			0.03	
154.00			0.45	
155.00			0.03	
156.00			0.00	
157.00			0.01	
158.00			0.01	
159.00			0.01	
160.00			0.00	
161.00			0.03	
162.00			0.00	
163.00			0.05	
164.00			0.03	
165.00			0.16	
166.00			0.00	
167.00			0.00	
168.00			0.30	
169.00			0.06	
170.00			0.05	
171.00			0.00	
172.00			0.00	
173.00			0.03	
174.00			0.08	
175.00			0.03	
176.00			0.01	
177.00			0.15	
178.00			0.16	
179.00			0.00	
180.00			0.10	
181.00			0.01	
182.00			0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
183.00			0.01	
184.00			0.00	
185.00			0.05	
EOH				

BOX LOG

HOLE: PM-11-02

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.00	4.46	36	159.65	164.59
2	4.46	8.14	37	164.59	169.77
3	8.14	12.19	38	169.77	175.26
4	12.19	16.12	39	175.26	180.62
5	16.12	20.15	40	180.62	185.73
6	20.15	24.25	41	185.73	185.93
7	24.25	28.12		EOH	
8	28.12	31.86			
9	31.86	35.68			
10	35.68	39.60			
11	39.60	43.50			
12	43.50	47.60			
13	47.60	51.59			
14	51.59	55.51			
15	55.51	59.44			
16	59.44	62.68			
17	62.68	66.79			
18	66.79	71.63			
19	71.63	76.42			
20	76.42	81.50			
21	81.50	86.87			
22	86.87	92.32			
23	92.32	97.54			
24	97.54	103.04			
25	103.04	108.20			
26	108.20	112.97			
27	112.97	117.35			
28	117.35	122.61			
29	122.61	128.19			
30	128.19	133.75			
31	133.75	139.15			
32	139.15	144.65			
33	144.65	149.54			
34	149.54	154.67			
35	154.67	159.65			

APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ATAC RESOURCES LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 21- AUG- 2011
Account: RCM

CERTIFICATE WH11137303

Project: Rackla Gold- NOW

P.O. No.: Batch 18- Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21-JUL- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ATAC RESOURCES LTD.
C/ O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 21- AUG- 2011
Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137303

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA26 Au ppm 0.01	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
I383164		11.20	0.02	0.40	5.82	208	350	0.70	0.32	8.38	1.98	20.4	33.7	138	4.04	21.4
I383165		11.75	0.10	3.99	5.92	688	320	0.68	0.25	8.61	0.40	22.2	44.1	186	1.95	93.2
I383166		12.27	<0.01	0.06	4.91	162.5	10	0.24	0.02	2.32	0.07	19.45	68.2	259	0.28	81.9
I383167		11.48	<0.01	0.13	6.11	158.5	170	0.65	0.16	4.78	0.17	24.6	45.7	196	0.94	90.7
I383168		11.67	0.01	0.26	6.36	367	280	0.56	6.29	5.91	0.16	26.4	42.4	158	1.27	53.8
I383169		7.94	0.02	0.22	5.88	412	350	0.61	0.39	6.22	0.43	22.8	54.7	249	1.90	48.2
I383170		13.14	0.05	21.3	5.85	660	650	0.72	4.47	5.08	0.31	24.8	38.3	324	3.98	84.8
I383171		8.81	0.02	2.01	7.00	452	780	0.90	8.09	6.39	0.34	23.2	38.9	164	4.71	14.2
I383172		5.48	0.01	0.46	6.64	404	750	0.79	9.85	7.50	0.44	22.9	37.3	158	4.14	10.0
I383173		7.99	<0.01	<0.01	0.07	<5	20	0.07	0.04	21.2	0.07	1.37	1.3	1	0.29	1.3
I383174		12.22	0.03	0.99	6.64	267	340	0.53	12.80	6.12	0.59	23.3	35.3	138	1.55	80.5
I383175		12.08	<0.01	0.53	6.58	259	330	0.48	3.81	6.85	0.38	21.5	30.3	135	1.24	58.0
I383176		6.17	<0.01	0.04	7.20	94.2	80	0.42	0.05	5.68	0.25	26.5	40.4	151	0.42	106.0
I383177		10.19	<0.01	0.04	6.79	210	70	0.50	0.02	8.79	0.17	21.6	34.5	141	0.64	92.2
I383178		11.72	<0.01	0.13	7.87	5.7	60	0.58	0.05	5.88	1.70	22.7	35.9	172	1.91	72.7
I383179		0.21	1.81	0.29	0.24	>10000	20	0.11	256	12.30	0.21	16.50	2.3	9	1.14	24.2
I383180		12.10	<0.01	0.03	8.27	4.8	30	0.55	0.01	7.65	0.14	27.6	35.5	164	0.33	64.9
I383181		12.03	<0.01	0.03	7.80	10.8	50	0.68	0.05	8.10	0.63	25.3	35.7	154	3.43	74.2
I383182		11.43	<0.01	<0.01	8.14	7.1	20	0.50	0.05	5.01	0.09	26.0	35.8	187	0.66	81.2
I383183		11.75	<0.01	<0.01	8.34	11.3	10	0.42	0.04	4.78	0.09	28.9	38.8	186	0.25	86.0
I383184		12.18	0.01	0.11	8.17	10.3	10	0.49	0.05	6.35	0.17	27.5	37.5	169	0.22	133.0
I383185		11.74	0.04	0.61	7.08	191.5	430	0.56	1.82	5.78	0.38	22.7	38.8	151	1.70	74.3
I383186		11.07	<0.01	0.07	7.73	19.5	20	0.36	0.03	5.05	0.17	24.8	42.7	177	0.28	103.0
I383187		4.94	<0.01	0.05	7.56	19.6	10	0.37	0.02	4.87	0.16	24.7	42.3	178	0.24	106.5
I383188		11.75	<0.01	0.08	8.14	9.3	20	0.62	0.02	5.50	0.11	27.8	42.1	188	0.27	101.0
I383189		12.49	<0.01	0.12	7.55	14.5	50	0.57	0.03	5.01	0.14	25.1	39.3	174	0.27	193.0
I383190		11.13	<0.01	<0.01	7.94	7.4	20	0.49	0.01	4.67	0.25	24.9	41.0	200	0.24	107.5
I383191		11.17	0.02	<0.01	8.14	6.4	20	0.54	0.01	7.02	0.14	27.2	40.8	171	0.23	124.0
I383192		11.99	<0.01	0.32	7.46	7.0	30	0.45	0.02	5.90	0.20	25.4	37.5	188	0.45	86.0
I383193		10.81	0.01	0.20	7.38	37.4	250	0.58	0.05	5.09	0.29	24.3	40.4	167	0.78	79.5
I383194		7.73	<0.01	<0.01	0.06	<5	10	0.07	0.04	20.3	0.06	1.28	1.2	<1	0.11	1.6
I383195		0.21	0.46	1.60	0.14	6350	50	0.09	68.7	16.65	2.27	17.10	1.6	7	0.36	18.0
I383196		11.80	<0.01	0.81	6.90	67.3	60	0.46	0.09	5.50	2.42	22.3	41.0	172	0.53	114.0
I383197		12.38	<0.01	0.11	6.90	33.8	70	0.53	0.02	4.96	0.14	21.5	41.0	156	0.21	126.5
I383198		12.13	<0.01	0.08	6.85	51.4	60	0.48	0.02	5.44	0.12	21.5	36.2	154	0.25	99.5
I383199		11.32	<0.01	0.08	5.87	92.9	40	0.42	0.02	5.10	0.15	17.90	55.2	276	0.39	91.3



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Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137303

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383164		6.46	14.50	0.12	0.2	0.063	1.87	9.8	33.7	4.02	1730	0.61	0.49	5.3	141.0	770
I383165		8.32	13.20	0.16	0.2	0.136	0.83	11.0	60.9	4.26	1200	0.75	1.01	4.0	283	680
I383166		7.67	11.90	0.16	0.3	0.038	0.04	9.7	127.0	10.45	565	0.77	0.08	0.7	685	700
I383167		7.02	14.30	0.15	0.9	0.064	0.46	12.3	76.2	6.03	1140	1.36	1.34	3.7	369	820
I383168		8.82	15.90	0.18	0.6	0.041	0.77	13.4	71.3	4.31	837	0.86	1.27	3.5	330	850
I383169		8.24	14.15	0.17	0.4	0.381	0.87	11.5	45.9	4.99	4200	0.71	1.08	3.0	439	770
I383170		12.20	14.75	0.23	0.6	1.800	2.26	13.0	16.2	2.16	8620	0.89	0.31	2.8	182.0	1140
I383171		11.30	17.45	0.23	0.6	0.436	2.56	12.1	22.6	3.69	3210	0.55	0.44	3.7	124.0	650
I383172		9.90	15.70	0.20	0.5	0.039	2.46	11.7	22.1	4.05	833	0.49	0.41	5.0	111.5	700
I383173		0.48	0.28	0.19	<0.1	0.005	0.03	0.7	1.0	12.65	215	0.06	0.01	0.3	<0.2	170
I383174		9.00	15.35	0.17	0.3	0.105	0.98	12.3	69.7	3.19	744	0.56	1.39	4.9	96.4	690
I383175		7.11	15.60	0.14	0.3	0.073	0.76	11.2	81.2	3.25	758	0.72	1.34	5.5	76.3	720
I383176		7.01	15.85	0.15	0.4	0.061	0.17	13.9	108.0	3.58	911	3.88	1.94	6.5	218	830
I383177		6.00	15.85	0.13	0.3	0.056	0.18	11.4	87.2	3.00	968	1.73	1.69	5.3	199.5	710
I383178		7.38	17.70	0.15	0.4	0.075	0.18	11.5	101.0	3.83	950	2.49	2.16	11.3	105.5	830
I383179		15.20	1.42	0.21	0.1	0.089	0.10	7.9	2.4	7.03	3110	4.77	0.01	1.8	7.1	190
I383180		7.10	22.6	0.16	0.7	0.074	0.02	13.9	66.3	3.64	954	0.59	2.11	16.7	90.2	900
I383181		7.25	18.85	0.14	0.7	0.069	0.18	13.1	61.2	3.39	1200	1.16	1.60	14.0	87.4	810
I383182		7.77	17.65	0.16	1.0	0.070	0.06	13.3	55.0	4.34	790	0.32	3.17	16.0	95.7	850
I383183		7.74	18.95	0.16	0.9	0.076	0.02	15.4	71.4	4.53	752	0.58	3.28	16.6	98.8	860
I383184		7.34	18.70	0.17	0.8	0.076	0.01	14.4	70.6	3.94	880	1.42	2.42	14.3	93.2	850
I383185		7.13	17.05	0.15	0.3	0.092	0.85	12.1	76.3	3.62	927	0.70	1.95	8.0	134.5	690
I383186		7.59	15.95	0.17	0.6	0.069	0.01	12.8	92.9	4.19	911	0.33	2.16	11.6	206	810
I383187		7.49	15.55	0.17	0.6	0.064	0.01	12.8	93.5	4.18	915	0.32	2.19	11.2	225	800
I383188		7.41	19.45	0.18	1.1	0.075	0.02	14.8	68.0	4.13	1020	0.46	2.68	15.3	117.5	820
I383189		7.35	16.10	0.16	0.9	0.064	0.02	13.1	55.8	3.94	1060	1.07	3.14	13.2	115.5	750
I383190		7.81	17.25	0.18	1.0	0.073	0.02	12.9	49.9	4.36	1080	1.38	3.09	14.7	140.0	800
I383191		7.40	18.75	0.18	1.2	0.069	0.02	13.9	41.1	4.05	1060	0.67	2.62	15.6	119.5	830
I383192		7.05	16.35	0.17	0.7	0.066	0.02	13.4	77.1	3.99	974	0.47	2.53	14.6	128.0	760
I383193		7.30	16.45	0.18	0.5	0.071	0.13	12.6	82.6	3.98	1150	1.07	1.77	8.4	156.0	770
I383194		0.47	0.26	0.22	<0.1	0.005	0.01	0.6	1.1	12.05	205	0.05	0.01	0.3	<0.2	170
I383195		10.95	1.17	0.16	0.1	0.130	0.06	7.4	2.1	8.84	4630	2.33	0.02	1.4	3.6	140
I383196		7.15	16.70	0.15	0.4	0.275	0.12	11.9	88.1	3.35	1180	2.42	1.66	6.7	143.0	720
I383197		7.05	14.90	0.17	0.5	0.063	0.08	11.6	120.0	3.79	1020	4.02	2.04	6.6	112.5	750
I383198		7.07	16.90	0.18	0.4	0.071	0.07	11.0	110.5	3.64	924	1.64	2.10	6.1	99.3	760
I383199		7.70	13.10	0.18	0.3	0.054	0.04	9.1	126.5	6.50	1120	0.86	1.15	4.5	452	630



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CERTIFICATE OF ANALYSIS WH11137303

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383164		104.0	67.3	0.002	5.06	17.20	16.5	2	1.3	272	0.31	<0.05	0.9	0.226	0.76	1.6
I383165		26.8	31.8	0.007	5.78	32.7	16.3	1	2.8	282	0.23	0.08	0.9	0.183	0.52	1.5
I383166		2.1	2.6	0.008	1.19	5.05	14.9	1	0.2	61.9	<0.05	<0.05	0.8	0.035	0.16	1.7
I383167		7.9	21.9	0.007	0.82	9.53	18.7	1	1.0	223	0.21	<0.05	1.4	0.167	0.72	5.6
I383168		15.5	31.0	0.004	5.45	10.05	18.8	2	1.7	237	0.19	0.08	1.1	0.157	0.51	6.5
I383169		6.2	32.3	0.004	0.77	74.8	18.6	1	11.4	315	0.17	<0.05	1.0	0.142	0.41	5.2
I383170		77.2	75.1	0.005	8.69	74.2	19.1	2	22.1	154.5	0.13	0.10	1.5	0.146	0.74	4.2
I383171		40.7	106.0	0.002	>10.0	12.45	21.9	3	9.8	183.0	0.15	0.11	1.5	0.213	0.85	2.9
I383172		32.2	99.7	0.002	>10.0	14.25	22.1	3	4.4	205	0.19	0.12	1.5	0.237	0.79	2.5
I383173		1.2	2.1	<0.002	0.01	0.09	0.3	1	<0.2	46.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.4
I383174		60.1	40.6	0.003	6.74	44.1	22.6	2	2.0	267	0.19	0.14	1.5	0.222	0.34	1.0
I383175		32.0	32.0	0.003	4.23	18.20	21.4	1	1.5	294	0.21	0.05	1.4	0.248	0.28	1.1
I383176		15.0	8.4	0.070	1.27	29.6	25.0	1	0.6	357	0.26	<0.05	1.7	0.282	0.10	13.8
I383177		14.6	12.8	0.106	1.61	25.3	21.5	1	0.6	405	0.20	<0.05	1.4	0.231	0.14	9.4
I383178		105.0	12.2	0.025	0.71	15.35	25.4	1	0.9	260	0.42	<0.05	1.6	0.527	0.11	7.5
I383179		8.1	18.7	0.002	>10.0	10.80	0.7	2	2.2	85.8	0.08	0.22	0.6	0.024	0.20	0.5
I383180		12.3	1.5	0.002	0.27	7.10	26.5	2	0.9	434	0.60	<0.05	1.8	0.687	0.03	1.1
I383181		32.0	20.1	0.006	0.73	9.91	24.7	2	0.8	422	0.50	<0.05	1.6	0.646	0.13	3.1
I383182		8.0	3.8	0.002	0.10	7.32	28.4	1	0.8	255	0.60	<0.05	1.9	0.734	0.04	1.5
I383183		9.4	0.3	<0.002	0.68	6.48	29.6	2	0.8	198.0	0.60	<0.05	1.9	0.716	<0.02	1.4
I383184		9.5	0.2	0.002	0.38	6.20	26.9	2	0.7	314	0.57	<0.05	2.0	0.718	<0.02	2.2
I383185		31.2	38.4	0.006	2.41	26.5	23.8	1	1.9	290	0.32	0.10	1.6	0.400	0.40	2.6
I383186		7.4	0.4	0.010	0.15	7.31	25.8	1	0.8	209	0.45	<0.05	1.8	0.586	0.12	6.0
I383187		6.9	0.2	0.010	0.15	7.54	26.9	1	0.9	208	0.46	<0.05	1.7	0.579	0.13	7.3
I383188		7.6	0.5	<0.002	0.20	6.79	28.7	2	0.9	274	0.59	<0.05	1.9	0.698	<0.02	3.0
I383189		8.6	0.4	0.006	1.09	8.46	24.9	2	0.7	317	0.52	<0.05	1.8	0.632	<0.02	2.3
I383190		8.3	0.4	0.008	0.37	12.00	26.6	2	0.7	289	0.53	<0.05	1.8	0.680	<0.02	3.2
I383191		20.9	0.3	0.021	0.13	13.10	27.8	2	0.8	398	0.58	<0.05	2.0	0.706	<0.02	4.1
I383192		173.0	0.6	0.002	0.24	11.10	25.1	2	0.8	387	0.53	<0.05	1.8	0.633	<0.02	1.3
I383193		193.0	4.1	0.038	1.18	62.5	24.0	1	1.4	280	0.33	<0.05	1.7	0.411	0.07	8.6
I383194		1.5	1.0	<0.002	<0.01	0.15	0.3	1	<0.2	47.3	<0.05	<0.05	<0.2	<0.005	<0.02	0.4
I383195		104.0	6.2	<0.002	9.24	3.32	0.6	2	3.5	121.0	<0.05	0.10	0.8	0.011	0.07	0.4
I383196		384	2.8	0.014	0.75	85.1	22.8	2	1.0	295	0.25	<0.05	1.5	0.345	0.03	8.5
I383197		17.6	1.3	0.009	0.45	5.82	23.5	1	0.5	307	0.26	<0.05	1.4	0.338	<0.02	3.5
I383198		12.4	1.4	0.006	0.30	5.65	23.8	1	0.6	281	0.25	<0.05	1.3	0.308	0.02	2.2
I383199		6.3	1.8	0.011	0.23	9.97	20.5	1	0.3	336	0.18	<0.05	1.1	0.203	0.30	3.2



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Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137303

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		V	W	Y	Zn	Zr	As
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.001
I383164		130	0.5	9.0	532	9.4	
I383165		119	0.4	7.6	217	7.2	
I383166		97	0.1	5.7	215	14.4	
I383167		120	0.3	6.6	404	44.0	
I383168		128	0.6	6.5	242	21.1	
I383169		111	0.5	6.2	555	18.2	
I383170		145	2.7	9.3	138	24.8	
I383171		158	2.4	9.4	106	23.7	
I383172		157	1.8	11.7	65	19.4	
I383173		3	0.1	0.9	20	<0.5	
I383174		145	0.7	6.6	191	10.4	
I383175		142	0.5	7.4	141	10.8	
I383176		149	0.2	6.5	522	14.9	
I383177		135	0.3	8.4	392	11.3	
I383178		178	0.4	16.8	359	12.1	
I383179		10	56.6	7.5	63	7.1	2.82
I383180		173	0.3	21.2	133	20.9	
I383181		178	0.6	18.1	320	24.1	
I383182		201	0.4	19.3	181	29.8	
I383183		192	0.3	20.6	147	26.0	
I383184		195	0.3	18.9	234	24.1	
I383185		157	1.0	9.5	302	10.7	
I383186		182	0.3	15.7	403	21.9	
I383187		182	0.3	15.2	401	19.9	
I383188		191	0.3	20.8	230	38.5	
I383189		173	0.3	18.2	126	29.3	
I383190		185	0.3	19.2	115	31.9	
I383191		191	0.4	19.7	110	39.1	
I383192		167	0.3	19.0	121	23.0	
I383193		156	0.5	8.6	218	15.6	
I383194		3	0.1	0.9	17	<0.5	
I383195		8	129.0	7.1	480	4.1	
I383196		140	0.3	5.3	730	14.2	
I383197		136	0.2	4.7	158	18.6	
I383198		146	0.2	5.4	115	13.4	
I383199		123	0.2	5.5	465	12.6	



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CERTIFICATE OF ANALYSIS WH11137303

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11137305

Project: Rackla Gold- NOW

P.O. No.: Batch 17- Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21-JUL- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 22Y	Split Sample - Boyd Rotary Splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11137305

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383128		8.33	<0.01	0.16	6.40	1245	1370	1.06	0.04	6.86	7.60	21.6	50.4	147	3.54	91.3
I383129		9.18	0.01	0.30	6.47	388	1360	1.12	0.02	7.06	5.53	21.3	33.6	163	3.21	50.9
I383130		12.10	<0.01	0.05	6.78	127.0	750	0.50	0.01	4.38	0.43	23.4	37.1	173	1.93	61.6
I383131		10.96	<0.01	0.04	6.06	78.0	1150	0.56	0.02	9.81	1.80	21.7	33.2	154	1.53	66.3
I383132		11.59	<0.01	0.04	5.97	64	1070	0.52	0.02	10.35	0.16	21.4	35.8	130	1.24	67.2
I383133		11.71	<0.01	0.04	5.98	100	920	0.52	0.01	10.60	2.60	21.3	36.7	130	1.14	53.6
I383134		12.21	0.01	0.04	6.55	390	650	0.59	0.14	7.62	1.34	25.7	40.2	163	1.15	58.4
I383135		4.93	0.02	1.70	6.61	448	130	1.12	0.03	5.42	56.6	19.95	51.4	193	4.13	50.3
I383136		9.90	0.02	3.89	6.01	268	930	0.87	0.01	6.90	7.08	22.5	36.2	130	4.03	45.2
I383137		11.73	0.03	1.51	6.40	272	850	0.97	0.04	10.65	8.89	22.4	41.0	137	3.06	55.4
I383138		12.06	0.03	0.12	6.69	79.9	550	0.56	0.02	9.67	0.50	22.9	36.7	129	2.15	90.1
I383139		11.01	0.01	0.08	6.92	85	900	0.56	0.01	10.50	0.38	24.8	36.7	143	2.73	92.0
I383140		8.89	<0.01	0.10	5.42	102	310	0.55	0.03	10.30	0.62	22.9	36.8	166	2.39	53.5
I383141		7.94	0.01	0.09	4.53	79	250	0.70	0.04	11.35	0.20	25.2	23.0	109	3.56	59.1
I383142		8.86	<0.01	0.01	0.06	5	20	0.05	0.02	19.25	0.07	1.68	1.2	3	0.11	1.5
I383143		10.99	0.01	0.12	6.86	170.0	540	0.63	0.87	5.85	0.52	27.9	44.8	185	1.75	111.5
I383144		11.62	0.04	1.74	6.83	175.0	360	0.63	8.77	4.23	1.31	24.2	47.5	141	1.61	87.6
I383145		12.51	0.03	1.68	6.78	285	720	0.72	1.11	5.06	2.84	24.7	35.0	131	2.92	123.5
I383146		10.97	<0.01	0.20	7.04	502	560	0.55	0.03	5.39	0.48	20.5	41.8	163	1.93	87.9
I383147		0.25	1.91	0.30	0.24	>10000	20	0.07	257	12.80	0.22	12.95	2.2	9	1.00	22.3
I383148		11.48	<0.01	0.14	6.40	403	660	0.54	0.12	5.41	0.86	19.60	41.2	185	2.19	120.5
I383149		0.25	0.43	1.69	0.14	4520	50	0.06	72.1	15.90	2.30	12.55	1.5	8	0.31	15.7
I383150		11.87	0.02	0.43	6.82	397	790	0.70	5.35	6.32	0.61	19.80	40.0	153	3.84	72.3
I383151		12.01	<0.01	0.27	6.69	310	600	0.50	0.05	5.93	0.90	19.20	42.5	161	2.26	156.5
I383152		13.15	0.02	0.94	6.63	476	1020	0.76	0.42	5.32	1.31	17.30	39.2	162	2.64	133.0
I383153		11.95	<0.01	0.22	6.72	116.0	550	0.57	0.63	5.02	0.55	21.4	37.8	156	1.95	71.0
I383154		11.30	0.17	0.16	6.97	94.9	480	0.44	0.01	4.75	0.27	19.05	40.5	157	1.95	70.6
I383155		11.68	<0.01	0.08	6.59	58.4	590	0.50	0.01	5.50	0.41	18.40	45.3	151	2.34	91.2
I383156		5.71	<0.01	0.07	6.73	92.5	560	0.60	0.01	5.50	0.55	22.1	54.9	154	2.68	107.5
I383157		3.89	2.30	2.53	5.52	112.5	670	1.37	0.12	6.38	40.7	21.4	34.3	145	4.33	61.8
I383158		7.42	<0.01	0.01	0.07	<5	20	0.06	0.04	21.0	0.08	1.62	1.4	2	0.20	2.1
I383159		6.62	0.03	0.68	1.94	178.5	570	1.09	0.08	1.90	2.05	29.1	5.1	38	1.85	36.1
I383160		9.35	0.01	0.40	1.92	164.0	560	1.05	0.06	2.51	3.20	28.1	4.6	39	1.46	34.4
I383161		7.50	<0.01	0.29	1.78	156.0	550	1.03	0.06	1.72	3.04	27.0	4.5	41	1.50	33.6
I383162		6.95	0.02	0.57	2.87	165.5	530	1.26	0.06	1.52	3.44	28.6	10.9	72	2.34	51.9
I383163		6.06	0.04	1.83	7.49	285	1610	1.51	0.03	2.68	1.11	27.0	57.2	265	5.00	143.0



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Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137305

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383128		6.87	16.50	0.21	0.5	0.073	1.62	10.3	14.3	2.70	1010	2.04	1.81	5.8	232	730
I383129		6.80	16.70	0.20	0.5	0.531	1.65	10.3	20.0	2.90	3360	1.74	1.75	5.9	188.0	690
I383130		6.46	17.55	0.18	0.3	0.064	0.85	11.0	67.5	3.44	894	0.73	2.12	5.2	149.5	680
I383131		5.40	15.10	0.16	0.6	0.059	0.64	10.2	68.7	2.42	896	1.27	1.74	4.3	137.0	650
I383132		5.69	15.30	0.15	0.7	0.060	0.53	10.2	90.2	2.51	867	0.65	1.33	4.5	113.5	620
I383133		5.76	16.10	0.15	0.6	0.072	0.52	9.9	88.0	2.38	919	1.14	1.42	5.1	143.0	600
I383134		6.21	17.15	0.16	0.6	0.057	0.51	12.0	100.5	3.00	868	0.97	1.55	6.1	193.0	680
I383135		9.45	20.5	0.25	0.4	0.357	2.66	8.7	21.4	2.20	3240	9.01	0.40	4.4	376	800
I383136		6.42	16.85	0.21	0.5	0.405	2.32	10.5	16.7	2.83	2550	1.38	0.29	5.6	166.5	650
I383137		5.87	16.95	0.19	0.6	0.877	2.01	10.3	25.0	1.27	1020	1.36	1.35	6.1	151.5	730
I383138		5.73	16.00	0.16	0.7	0.062	1.12	10.6	16.7	1.39	843	0.65	3.32	5.7	137.5	720
I383139		5.58	17.85	0.17	0.8	0.061	1.56	11.4	19.7	1.40	886	0.90	2.60	5.6	207	760
I383140		5.77	14.55	0.18	0.5	0.063	1.24	11.4	24.6	2.13	747	1.58	1.45	4.9	205	1160
I383141		4.98	11.45	0.16	0.8	0.046	1.14	13.6	22.6	1.77	1040	1.95	0.26	5.9	123.0	1910
I383142		0.43	0.24	0.08	<0.1	0.005	0.02	0.8	1.1	12.05	192	0.09	0.01	0.3	3.6	170
I383143		6.68	16.15	0.19	0.6	0.057	0.78	14.0	93.5	3.14	1100	0.86	1.45	5.5	317	870
I383144		7.34	16.60	0.20	0.7	0.084	0.75	11.7	85.4	3.46	1340	0.93	1.53	5.0	339	720
I383145		6.42	16.15	0.19	0.4	0.317	1.44	12.2	48.3	3.23	911	1.06	1.45	5.2	117.0	720
I383146		7.01	16.10	0.23	0.2	0.053	0.80	9.7	61.7	3.65	1090	0.75	1.88	4.0	370	710
I383147		15.50	1.56	0.33	0.2	0.082	0.10	6.2	1.9	7.22	3110	4.96	0.01	1.9	9.0	210
I383148		6.41	14.00	0.21	0.3	0.051	0.90	9.4	35.7	3.36	922	1.16	2.22	3.2	198.0	640
I383149		10.70	1.20	0.27	0.1	0.116	0.05	5.2	1.8	8.71	4450	2.19	0.02	1.5	6.1	130
I383150		7.27	17.70	0.23	0.3	0.080	1.93	9.7	28.6	3.42	864	0.53	0.98	3.3	159.0	680
I383151		6.18	15.50	0.21	0.3	0.054	0.89	9.3	37.3	3.64	951	1.77	2.41	3.2	227	670
I383152		6.88	15.75	0.20	0.4	0.051	1.12	8.4	57.8	4.04	805	1.15	1.76	3.5	192.0	620
I383153		6.96	14.35	0.21	0.3	0.060	0.97	10.3	77.0	4.56	805	0.42	1.51	3.4	254	680
I383154		6.78	15.30	0.20	0.3	0.056	0.85	9.4	72.3	4.32	709	0.89	2.00	3.1	208	680
I383155		6.46	14.70	0.22	0.4	0.052	0.95	8.7	47.6	4.13	785	2.00	2.00	3.0	410	660
I383156		6.66	14.75	0.10	0.5	0.070	0.98	10.0	46.4	4.18	813	2.53	2.12	3.3	462	670
I383157		6.52	12.30	0.11	0.6	3.52	2.18	9.5	30.6	3.61	561	1.23	0.28	2.9	113.0	540
I383158		0.47	0.35	0.15	<0.1	0.005	0.03	0.7	0.9	12.50	202	0.07	0.01	0.3	<0.2	180
I383159		1.54	5.73	<0.05	0.8	0.067	0.77	17.6	9.8	0.92	229	56.4	0.07	4.9	122.0	610
I383160		1.26	5.51	<0.05	0.7	0.028	0.79	17.1	9.0	1.23	203	52.1	0.06	4.2	116.0	700
I383161		1.15	5.34	<0.05	0.7	0.024	0.74	16.8	12.0	0.84	145	55.7	0.06	4.6	120.0	560
I383162		2.83	7.51	<0.05	0.9	0.037	1.07	17.0	13.8	0.76	136	49.2	0.11	5.4	133.0	760
I383163		9.56	18.60	0.18	0.9	0.067	2.54	10.8	33.4	1.46	599	1.71	0.38	3.2	244	910



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CERTIFICATE OF ANALYSIS WH11137305

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383128		18.5	58.9	0.016	2.00	15.00	20.0	4	1.1	275	0.33	<0.05	1.1	0.292	1.54	4.0
I383129		49.9	73.6	0.011	0.67	21.0	20.5	2	5.7	282	0.33	<0.05	1.2	0.291	1.06	3.9
I383130		7.0	26.0	0.004	0.20	2.79	20.5	1	0.5	202	0.31	<0.05	1.2	0.256	0.40	1.1
I383131		13.2	20.0	0.005	0.64	5.99	18.0	1	0.4	287	0.26	<0.05	1.2	0.215	0.65	0.8
I383132		9.4	16.4	0.003	0.57	4.31	18.3	1	0.5	241	0.26	<0.05	1.2	0.228	0.20	0.6
I383133		10.9	15.6	0.013	0.64	11.10	18.7	1	0.5	245	0.29	<0.05	1.2	0.246	0.45	1.4
I383134		12.4	17.0	0.005	1.58	7.19	20.6	1	0.8	308	0.34	<0.05	1.4	0.294	0.45	0.7
I383135		148.0	59.9	0.007	7.32	103.5	21.1	2	9.3	153.5	0.26	<0.05	1.1	0.228	2.12	3.3
I383136		71.1	87.1	<0.002	5.39	62.6	19.1	1	6.6	179.0	0.31	<0.05	1.2	0.274	0.99	1.2
I383137		381	69.0	0.003	6.02	186.0	20.0	2	2.9	307	0.37	0.05	1.2	0.297	0.85	1.1
I383138		15.8	35.0	0.003	4.61	10.60	20.2	2	0.6	288	0.33	<0.05	1.2	0.279	0.46	0.9
I383139		19.7	45.6	0.009	4.92	15.80	21.5	2	0.7	283	0.33	<0.05	1.2	0.278	0.52	3.9
I383140		18.0	42.0	0.008	4.61	13.10	16.2	2	0.8	241	0.30	<0.05	1.6	0.219	0.51	2.4
I383141		16.2	38.4	0.007	3.95	19.35	13.8	2	0.7	244	0.35	0.05	1.8	0.242	0.51	16.9
I383142		1.3	1.2	<0.002	0.01	3.69	0.3	1	<0.2	46.1	<0.05	<0.05	0.2	<0.005	<0.02	0.8
I383143		10.7	31.2	0.008	3.49	11.70	23.2	2	1.6	281	0.23	0.09	1.6	0.238	0.79	11.2
I383144		34.1	31.7	0.005	2.95	39.8	23.2	2	1.8	251	0.20	0.09	1.6	0.225	0.65	10.0
I383145		131.0	59.7	0.007	3.14	84.9	22.4	2	2.1	264	0.20	0.12	1.5	0.232	1.11	1.4
I383146		22.8	30.1	0.009	0.68	6.31	20.5	2	0.5	318	0.14	<0.05	1.4	0.225	1.01	5.4
I383147		8.1	16.5	0.003	>10.0	10.70	0.5	2	2.1	89.1	0.08	0.25	0.5	0.024	0.22	0.4
I383148		9.7	34.9	0.007	1.63	3.90	18.4	2	0.4	277	0.12	<0.05	1.3	0.180	0.87	1.7
I383149		105.5	5.0	0.003	9.11	3.17	0.4	2	3.3	116.0	<0.05	0.11	0.7	0.010	0.08	0.3
I383150		28.8	71.8	0.003	5.05	11.50	20.1	3	2.8	251	0.13	0.12	1.3	0.192	0.93	2.8
I383151		80.5	35.0	0.020	1.94	9.74	18.9	1	0.6	292	0.12	<0.05	1.2	0.179	1.03	5.2
I383152		12.9	44.3	0.011	2.13	20.5	17.9	2	0.8	306	0.13	0.06	1.1	0.194	1.25	2.1
I383153		12.3	40.0	0.005	1.24	7.73	19.2	2	1.2	279	0.13	<0.05	1.4	0.203	0.69	4.7
I383154		21.6	31.3	0.013	0.28	3.92	19.2	1	0.4	256	0.12	<0.05	1.3	0.173	0.70	3.9
I383155		7.3	37.3	0.032	1.19	9.85	17.7	3	0.4	289	0.12	<0.05	1.2	0.164	1.68	10.4
I383156		9.1	37.2	0.040	1.15	12.40	22.4	4	0.4	290	0.15	<0.05	1.5	0.172	2.01	15.2
I383157		2280	84.1	0.002	6.97	416	18.8	15	2.6	295	0.13	0.08	1.3	0.149	1.43	2.8
I383158		3.8	1.6	<0.002	0.02	0.83	0.4	1	<0.2	46.9	<0.05	<0.05	<0.2	<0.005	<0.02	0.6
I383159		50.8	30.8	0.030	1.32	18.10	4.4	5	1.3	68.5	0.33	0.13	3.2	0.092	0.97	12.9
I383160		17.1	32.2	0.025	0.93	13.35	4.0	5	0.8	79.5	0.28	0.09	2.9	0.084	0.73	12.3
I383161		17.5	30.3	0.025	0.92	12.70	3.8	5	0.8	62.5	0.30	0.07	3.0	0.083	0.75	11.8
I383162		23.2	43.1	0.022	2.84	23.8	6.5	5	1.0	72.3	0.35	0.06	3.1	0.132	1.66	11.9
I383163		49.5	81.3	0.003	>10.0	100.5	21.9	6	1.3	180.0	0.18	<0.05	1.5	0.176	2.18	11.6



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Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	As- OG62 As % 0.001
I383128		132	1.1	8.8	566	20.4	
I383129		130	1.6	9.7	703	24.3	
I383130		119	0.4	5.3	151	10.0	
I383131		108	0.4	8.5	99	30.0	
I383132		113	0.3	8.8	49	28.6	
I383133		113	0.4	8.0	130	25.9	
I383134		127	0.6	7.9	139	30.0	
I383135		177	3.4	14.0	3130	21.7	
I383136		126	2.4	10.7	913	21.7	
I383137		134	2.2	14.9	1840	26.3	
I383138		126	0.6	12.0	109	29.3	
I383139		140	0.5	13.9	151	32.9	
I383140		134	0.5	12.3	229	21.1	
I383141		146	0.8	15.7	341	35.3	
I383142		3	0.1	0.9	17	<0.5	
I383143		139	0.6	8.5	562	29.2	
I383144		135	1.5	7.1	1160	29.6	
I383145		140	0.9	7.0	736	14.5	
I383146		140	0.5	4.9	844	11.1	
I383147		8	58.0	6.9	62	6.8	2.31
I383148		131	0.5	4.9	426	13.9	
I383149		7	134.5	5.8	449	3.7	
I383150		152	1.0	6.1	328	9.4	
I383151		137	0.4	6.0	595	11.7	
I383152		134	0.7	5.7	485	13.9	
I383153		135	0.9	5.1	520	10.6	
I383154		129	0.3	4.7	512	9.1	
I383155		126	0.3	5.8	851	13.4	
I383156		131	0.4	7.1	1030	15.9	
I383157		130	0.7	9.7	7880	16.7	
I383158		3	0.1	1.0	39	<0.5	
I383159		339	1.3	11.2	486	30.7	
I383160		297	1.1	8.2	188	25.3	
I383161		337	1.0	8.0	225	29.2	
I383162		362	1.2	9.1	434	33.3	
I383163		178	1.0	9.3	230	31.5	



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Project: Rackla Gold- NOW

Page: Appendix 1
Total # Appendix Pages: 1
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CERTIFICATE OF ANALYSIS WH11137305

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11137306

Project: Rackla Gold- NOW

P.O. No.: Batch 16- Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21-JUL- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% < 2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um
WSH- 22	"Wash" pulverizers
SPL- 21	Split sample - riffle splitter
WSH- 21	"Wash" crushers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Total # Pages: 2 (A - D)
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Finalized Date: 23- AUG- 2011
Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137306

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383092		3.32	0.03	0.63	4.85	61.3	1140	1.95	0.14	2.51	54.6	56.6	11.5	78	3.46	67.7
I383093		7.70	0.05	4.52	5.41	67.4	1680	1.60	0.10	3.26	155.0	45.5	12.0	83	4.52	119.5
I383094		7.02	0.03	1.43	7.23	546	2610	1.58	0.04	1.24	451	15.75	61.4	304	4.24	145.0
I383095		4.55	<0.01	0.20	8.37	351	2720	1.39	0.06	2.12	208	26.3	50.3	321	4.98	154.5
I383096		3.01	<0.01	0.42	9.62	918	2380	1.72	0.03	0.27	438	35.5	67.9	336	5.45	201
I383097		9.58	0.01	3.96	7.31	555	1300	0.81	0.04	3.15	54.4	24.2	51.0	202	3.81	76.7
I383098		9.20	<0.01	0.42	5.45	373	1170	0.95	0.06	4.32	63.8	17.10	58.1	154	2.55	84.2
I383099		4.57	0.01	0.59	8.02	450	1840	1.87	0.15	1.02	272	26.9	99.6	224	3.60	261
I383100		3.40	0.10	6.11	10.45	242	5070	2.06	0.36	0.06	11.05	29.3	3.2	344	8.62	39.5
I383101		7.57	<0.01	0.02	0.09	<5	30	0.08	0.03	22.5	0.64	1.34	1.9	2	0.16	2.8
I383102		3.21	0.51	23.8	8.24	805	4080	1.84	0.49	0.09	16.35	35.0	7.0	326	7.04	73.8
I383103		3.88	1.17	14.05	6.24	1675	2190	2.04	0.53	0.13	64.5	28.8	27.9	249	6.88	264
I383104		0.20	1.54	0.60	5.16	83.7	100	1.31	1.50	1.09	0.25	14.30	23.7	166	26.5	479
I383105		7.73	0.03	2.64	7.82	862	1520	1.33	0.17	5.28	116.0	22.2	44.4	224	2.99	52.5
I383106		8.18	0.24	7.28	8.06	1645	2020	1.45	1.13	2.67	106.0	23.9	32.9	214	3.74	72.4
I383107		6.15	0.12	9.58	8.68	1525	1980	1.71	0.24	0.82	89.9	27.8	26.9	342	4.94	167.0
I383108		3.08	0.02	7.46	9.07	1400	2230	2.30	0.39	0.40	218	29.5	44.6	342	5.02	441
I383109		2.20	0.02	1.41	6.97	1295	1280	0.95	0.13	2.87	211	18.80	66.3	238	3.09	188.5
I383110		9.54	0.03	1.59	6.77	959	750	0.82	0.11	5.44	33.7	21.5	48.8	172	3.85	42.6
I383111		5.56	0.02	1.42	7.28	994	1090	0.95	0.11	5.46	49.7	22.7	57.0	175	4.23	42.7
I383112		10.06	0.07	3.01	6.87	732	1080	0.66	0.05	6.07	86.4	19.15	53.4	184	2.83	96.7
I383113		8.97	<0.01	0.36	7.09	674	1690	0.87	0.02	7.39	36.2	21.5	56.6	194	4.28	93.2
I383114		5.66	0.10	7.19	9.20	1345	4000	3.11	0.20	0.19	89.3	19.15	83.8	257	4.79	158.0
I383115		8.11	<0.01	0.04	0.10	10	30	0.07	0.03	21.6	0.42	1.27	1.9	2	0.29	2.6
I383116		5.36	0.26	35.4	5.04	1145	1670	2.28	0.21	0.90	377	41.6	27.5	167	3.03	477
I383117		7.65	0.07	8.49	9.83	646	3460	3.06	0.04	0.30	180.0	27.0	70.2	346	5.30	359
I383118		1.81	0.04	1.85	4.74	498	1810	1.94	0.17	1.44	400	54.7	40.9	99	4.23	187.5
I383119		4.44	0.03	0.49	5.81	123.5	2090	2.06	0.08	5.43	162.0	58.5	24.8	88	5.56	31.4
I383120		7.44	0.04	0.40	8.12	365	1610	1.55	0.06	8.91	34.2	35.1	53.9	230	3.98	93.3
I383121		10.04	0.01	0.44	7.78	275	1140	1.21	0.05	7.40	1.37	30.6	42.3	244	3.04	417
I383122		11.56	0.01	0.15	7.02	157.0	760	0.76	0.03	7.83	0.56	27.8	40.4	176	2.85	188.5
I383123		12.01	<0.01	0.08	6.11	419	920	0.77	0.03	7.12	0.50	25.0	38.7	188	3.15	116.0
I383124		9.11	<0.01	0.09	6.58	145.0	900	0.84	0.03	8.67	0.24	26.9	37.0	157	2.71	135.0
I383125		1.50	<0.01	0.19	7.81	279	1270	1.07	0.06	6.93	39.8	31.6	46.0	190	3.16	176.5
I383126		9.97	<0.01	0.07	7.25	816	1120	0.72	0.03	7.84	3.05	26.2	44.5	176	2.69	119.0
I383127		0.21	0.40	6.68	5.01	0.6	70	1.26	1.47	1.31	0.04	23.4	7.8	31	20.9	13.2



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Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137306

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383092		3.69	14.25	0.18	1.8	0.116	2.10	31.9	32.7	1.26	862	18.85	0.13	13.7	84.6	880
I383093		5.44	16.10	0.21	1.7	1.730	2.33	25.2	33.1	1.34	876	72.0	0.13	11.6	72.8	790
I383094		9.78	23.3	0.36	0.3	1.035	2.74	6.2	27.6	0.47	1690	30.9	0.39	2.3	466	1430
I383095		8.40	23.7	0.28	0.4	0.126	2.43	11.2	23.7	0.68	1470	4.20	0.77	3.8	452	1330
I383096		9.49	25.9	0.30	1.0	0.770	2.44	15.8	29.8	0.22	1390	4.44	1.05	2.9	581	1870
I383097		7.04	18.35	0.22	1.2	0.611	2.02	11.0	48.1	1.84	953	10.25	0.86	2.9	347	750
I383098		5.59	13.45	0.21	0.4	0.607	1.27	7.5	36.1	1.40	1380	3.70	0.72	3.1	574	720
I383099		13.15	20.6	0.37	1.4	2.80	1.64	12.2	57.6	0.29	1700	19.70	0.98	2.1	1355	1640
I383100		1.63	33.7	0.15	0.7	0.527	4.32	13.9	20.2	0.23	74	13.65	0.47	9.9	54.9	330
I383101		0.48	0.33	0.06	<0.1	0.012	0.04	0.6	1.1	13.10	204	0.21	0.01	0.4	1.4	290
I383102		4.83	23.5	0.16	0.4	7.22	3.15	15.9	13.2	0.21	239	128.5	0.31	3.9	116.5	1590
I383103		10.20	17.85	0.20	0.3	27.7	1.93	14.2	24.3	0.14	522	168.0	0.42	1.7	355	1360
I383104		2.16	15.10	0.11	1.5	0.064	3.90	7.7	9.8	0.43	310	5.38	1.32	3.0	518	490
I383105		8.81	22.9	0.25	<0.1	3.34	2.74	9.6	30.2	2.34	1740	15.75	0.59	3.3	255	820
I383106		12.55	24.2	0.56	0.2	15.10	3.22	10.5	16.7	1.35	1280	39.6	0.41	2.8	228	1250
I383107		12.10	25.8	0.38	0.2	7.07	3.35	12.5	24.7	0.52	752	23.6	0.51	5.5	285	1110
I383108		10.85	24.5	0.32	0.4	122.0	2.99	13.0	31.2	0.30	1430	15.10	0.40	2.2	383	1770
I383109		11.20	18.65	0.30	0.3	12.05	2.00	8.1	38.0	0.99	3060	9.85	1.16	2.8	552	730
I383110		7.48	17.35	0.22	0.3	0.709	2.39	9.8	21.7	2.85	1580	8.43	0.45	4.9	253	680
I383111		8.20	18.55	0.28	0.3	0.591	2.64	10.5	19.3	2.80	1760	2.94	0.46	3.9	294	730
I383112		7.98	18.20	0.22	0.1	0.403	1.83	8.1	36.3	2.32	1740	2.71	1.31	3.7	300	740
I383113		6.75	17.90	0.21	0.7	0.121	2.41	9.5	23.4	2.54	1890	1.52	0.85	5.0	365	670
I383114		18.10	29.1	0.47	0.9	4.02	3.82	8.3	34.7	0.31	9280	11.05	0.32	1.7	502	2000
I383115		0.54	0.36	0.06	<0.1	0.025	0.04	0.6	1.3	13.35	245	0.16	0.01	0.4	0.9	180
I383116		18.45	15.95	0.42	1.7	5.33	1.95	19.3	18.0	0.21	3120	22.1	0.14	1.5	400	7580
I383117		11.10	27.0	0.32	1.1	0.219	3.65	10.6	53.0	0.40	1900	17.65	0.53	2.8	612	2300
I383118		17.40	14.35	0.40	1.6	0.290	1.86	29.7	21.5	0.61	1540	22.4	0.13	2.0	503	5060
I383119		6.43	16.95	0.14	1.9	0.164	2.33	35.7	28.4	2.60	2510	19.95	0.18	6.9	262	850
I383120		8.59	19.00	0.20	0.6	0.082	2.18	15.8	27.5	1.30	1530	13.10	1.28	5.4	458	1030
I383121		7.54	16.70	0.16	0.6	0.065	1.40	12.7	29.0	1.72	1160	2.96	2.72	5.3	521	890
I383122		6.75	16.65	0.14	0.6	0.062	1.16	11.9	19.0	2.35	1020	1.57	3.17	5.0	188.5	730
I383123		6.11	14.55	0.12	0.5	0.052	1.19	10.8	22.9	2.94	1040	2.58	2.06	4.1	196.0	650
I383124		6.10	16.40	0.11	0.6	0.055	1.05	11.9	16.6	2.19	929	1.31	3.02	4.7	139.0	630
I383125		8.02	19.95	0.19	0.6	0.082	1.16	14.5	22.7	1.34	916	13.20	2.88	5.2	600	1270
I383126		6.10	15.35	0.12	0.5	0.054	1.09	11.4	16.0	2.15	944	5.83	3.27	5.7	249	810
I383127		1.99	14.55	0.08	1.4	0.018	3.23	11.9	9.3	0.60	285	9.22	1.25	2.2	8.3	440



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Finalized Date: 23- AUG- 2011
Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137306

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383092		70.9	77.1	<0.002	0.03	25.9	10.2	6	2.5	91.9	0.76	<0.05	6.7	0.273	1.04	6.1
I383093		1250	77.3	<0.002	0.05	84.7	11.2	6	3.4	87.5	0.65	0.06	6.4	0.319	0.87	4.8
I383094		536	56.9	<0.002	0.13	91.5	21.7	10	2.2	73.5	0.11	0.06	0.9	0.128	1.54	11.3
I383095		64.8	75.4	<0.002	0.16	116.0	26.9	11	0.9	111.5	0.18	<0.05	1.3	0.190	1.96	10.0
I383096		136.5	84.7	0.002	0.13	106.5	35.6	7	1.3	133.0	0.15	<0.05	1.8	0.172	3.53	15.1
I383097		198.5	76.3	0.004	0.65	40.2	23.5	4	5.3	171.5	0.13	<0.05	1.4	0.163	1.70	3.4
I383098		32.6	49.6	0.010	0.78	24.1	17.6	4	1.2	182.0	0.16	<0.05	0.9	0.168	1.98	5.7
I383099		175.5	59.7	0.006	0.10	260	36.5	7	1.5	180.5	0.10	<0.05	1.5	0.127	1.82	28.9
I383100		579	161.0	<0.002	0.03	60.6	30.0	3	11.9	127.5	0.52	0.05	1.9	0.481	1.95	3.8
I383101		4.4	1.8	<0.002	<0.01	0.71	0.4	1	<0.2	48.6	<0.05	<0.05	<0.2	0.005	0.02	0.5
I383102		8660	116.0	0.002	0.21	158.0	26.3	4	125.5	222	0.19	0.09	1.5	0.212	4.12	5.4
I383103		4710	73.3	<0.002	0.18	200	32.8	4	223	296	0.07	0.13	1.0	0.098	7.38	15.5
I383104		194.5	1020	0.002	0.33	2.82	3.7	1	3.3	54.0	2.59	0.17	2.1	0.090	7.88	0.7
I383105		207	58.0	<0.002	2.34	28.7	22.5	13	11.5	217	0.17	<0.05	1.1	0.183	1.14	3.4
I383106		623	73.5	<0.002	2.08	52.3	24.8	76	132.5	148.5	0.14	0.19	1.2	0.155	1.54	6.7
I383107		332	118.5	<0.002	1.34	87.3	29.6	23	46.0	118.0	0.30	0.05	1.4	0.299	1.45	12.7
I383108		515	113.5	<0.002	0.86	94.3	38.5	17	151.5	162.0	0.12	0.05	1.3	0.127	1.68	21.9
I383109		117.0	64.6	0.002	1.03	40.5	23.6	15	24.3	177.0	0.16	<0.05	1.0	0.158	1.24	5.3
I383110		115.5	85.7	0.003	4.19	27.3	21.6	4	5.4	196.0	0.25	<0.05	1.1	0.270	1.02	1.6
I383111		81.7	91.3	0.002	4.25	27.9	23.1	5	5.3	197.5	0.20	<0.05	1.2	0.221	1.13	2.1
I383112		74.2	41.5	0.002	3.16	61.0	20.0	4	2.3	280	0.20	<0.05	0.9	0.204	1.05	2.1
I383113		48.2	81.1	<0.002	0.75	14.50	22.1	4	1.2	246	0.26	<0.05	1.2	0.281	1.56	2.1
I383114		1080	110.5	<0.002	0.16	103.5	29.9	6	38.9	112.0	0.06	0.05	1.2	0.117	5.16	12.1
I383115		5.2	2.4	<0.002	0.01	0.45	0.4	1	0.2	47.7	<0.05	<0.05	<0.2	0.005	0.03	0.7
I383116		1945	68.7	0.002	0.12	568	18.8	7	30.3	173.5	0.08	0.14	5.1	0.072	1.83	33.9
I383117		299	112.0	<0.002	0.21	358	30.6	6	3.4	79.5	0.13	<0.05	1.5	0.167	1.85	18.7
I383118		229	61.0	0.002	0.15	156.5	12.8	6	2.2	130.0	0.09	0.09	5.9	0.070	1.27	21.4
I383119		65.0	77.1	<0.002	0.40	29.2	11.6	2	2.1	214	0.43	<0.05	8.1	0.181	1.08	4.6
I383120		43.2	69.0	<0.002	2.18	28.8	21.9	13	1.8	261	0.28	<0.05	1.3	0.272	0.98	4.1
I383121		34.8	50.0	0.009	2.90	20.4	20.4	9	1.6	282	0.31	<0.05	1.2	0.261	2.35	3.9
I383122		12.6	41.3	0.016	3.40	4.94	20.0	1	0.5	295	0.28	<0.05	1.1	0.237	0.41	1.7
I383123		8.1	45.4	0.027	1.46	7.56	17.6	1	0.4	275	0.23	<0.05	1.1	0.198	0.47	3.6
I383124		11.4	38.8	0.005	2.84	3.11	18.7	1	0.4	280	0.27	<0.05	1.2	0.231	0.38	0.6
I383125		35.1	43.5	0.037	1.62	106.5	23.2	5	0.5	227	0.28	<0.05	1.4	0.246	1.91	5.6
I383126		10.8	38.6	0.063	1.29	12.00	18.7	2	0.4	293	0.32	<0.05	1.3	0.317	0.75	3.7
I383127		14.1	780	<0.002	0.01	0.70	7.2	1	1.0	56.5	0.23	<0.05	1.6	0.242	5.98	0.7



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 Total # Pages: 2 (A - D)
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 Finalized Date: 23- AUG- 2011
 Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11137306

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Zn- OG62 Zn % 0.001
I383092		213	3.1	24.5	906	75.7	
I383093		132	2.0	18.9	6930	70.9	
I383094		198	1.1	22.9	>10000	19.0	1.670
I383095		179	0.7	18.3	7360	23.0	
I383096		198	1.1	27.9	>10000	46.6	1.160
I383097		150	0.8	10.1	4090	52.5	
I383098		111	0.5	10.2	4500	24.1	
I383099		173	0.7	30.3	>10000	98.8	1.685
I383100		257	3.1	4.3	637	30.9	
I383101		3	0.1	1.0	52	<0.5	
I383102		179	3.3	5.8	2090	38.8	
I383103		143	2.2	12.8	5370	38.7	
I383104		23	8.6	3.8	159	62.7	
I383105		175	1.7	11.3	4660	7.7	
I383106		179	2.3	13.6	5150	26.7	
I383107		201	3.1	15.4	5290	17.3	
I383108		196	3.3	32.5	>10000	31.1	3.61
I383109		149	1.2	13.5	>10000	17.1	3.41
I383110		143	1.8	9.3	4210	12.6	
I383111		153	1.7	10.2	6790	16.5	
I383112		151	1.2	9.8	7510	8.9	
I383113		147	1.0	10.6	2680	27.0	
I383114		214	2.0	12.6	7620	43.3	
I383115		3	0.1	0.8	56	<0.5	
I383116		262	3.3	68.5	7480	62.8	
I383117		231	2.6	33.7	6580	48.7	
I383118		237	1.8	87.8	8140	65.5	
I383119		138	1.3	34.4	3010	69.6	
I383120		167	1.2	19.4	2600	27.6	
I383121		155	1.4	12.6	1040	25.1	
I383122		136	0.6	10.7	175	22.4	
I383123		122	0.4	7.6	154	18.7	
I383124		127	0.5	10.7	63	21.4	
I383125		154	1.4	17.0	2780	31.2	
I383126		137	1.3	9.7	514	20.3	
I383127		53	0.3	11.6	26	47.8	



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Project: Rackla Gold- NOW

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CERTIFICATE OF ANALYSIS WH11137306

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11141979

Project: Rackla Gold- NOW

P.O. No.: Batch 19- Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-JUL- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11141979

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383200		11.89	<0.01	0.09	4.21	121.0	10	0.28	0.01	4.76	0.18	11.70	70.6	351	0.27	68.9
I383201		5.51	<0.01	0.06	4.45	111.0	20	0.30	0.02	3.80	0.13	13.55	55.6	349	0.29	55.7
I383202		6.91	<0.01	0.05	4.47	227	10	0.22	0.02	4.00	0.11	15.95	74.2	389	0.25	69.8
I383203		7.26	0.09	3.29	3.83	1320	320	0.34	2.20	4.56	0.65	13.50	76.7	310	2.18	182.5
I383204		8.79	<0.01	0.10	4.19	398	80	0.26	0.06	3.66	0.14	12.60	79.5	377	0.68	100.5
I383205		10.97	<0.01	0.06	4.02	323	20	0.24	0.07	3.88	0.11	12.50	75.9	370	0.30	88.6
I383206		11.70	<0.01	0.07	3.93	304	<10	0.23	0.03	3.85	0.16	12.25	91.0	355	0.22	83.7
I383207		0.26	0.39	6.06	4.78	0.5	70	1.07	1.18	1.25	0.05	18.15	7.6	31	18.70	12.6
I383208		7.51	0.01	0.57	3.97	34.1	750	1.33	0.12	7.57	22.6	45.0	6.7	66	2.72	87.2
I383209		8.38	0.01	0.84	5.62	45.2	1010	1.99	0.20	6.18	45.0	61.0	8.5	87	4.07	54.8
I383210		8.39	<0.01	0.59	4.79	44.6	880	1.58	0.14	8.32	57.2	50.5	11.3	73	3.23	41.9
I383211		9.79	0.01	0.75	5.97	49.2	1270	2.08	0.16	0.58	43.7	66.1	12.1	109	5.40	60.3
I383212		9.94	<0.01	2.54	6.17	63.1	1270	2.12	0.16	1.42	69.7	71.7	16.0	108	6.28	69.1
I383213		4.09	0.02	2.35	6.15	65.8	1270	1.97	0.17	1.43	69.7	71.0	16.7	109	6.38	76.3
I383214		8.95	0.01	2.06	5.72	106.5	1950	2.26	0.08	0.62	71.2	57.7	8.3	108	5.58	163.0
I383215		7.36	0.09	0.43	4.75	54.1	1520	1.56	0.11	7.21	59.7	46.2	9.4	71	3.62	157.5
I383216		11.56	0.02	0.45	4.89	63.5	1640	1.69	0.20	7.49	65.1	49.3	11.1	69	3.38	62.1
I383217		0.26	1.43	0.51	4.84	74.8	90	1.14	1.53	0.97	0.29	13.30	21.0	154	24.9	439
I383218		8.15	0.26	2.08	7.46	378	1600	3.23	0.66	1.49	135.5	57.6	11.4	166	5.99	757
I383219		5.97	0.05	1.03	5.73	193.0	800	1.76	0.13	3.25	237	31.5	33.3	86	4.03	444
I383220		7.23	0.05	0.56	8.66	343	2820	1.83	0.10	0.71	163.5	30.2	56.9	314	7.76	59.7
I383221		3.56	0.06	6.60	9.36	740	3360	1.77	0.37	0.08	71.6	26.2	22.3	318	7.02	176.5
I383222		7.62	<0.01	0.02	0.08	<5	30	0.06	0.02	21.3	0.39	1.33	1.2	2	0.21	1.9
I383223		7.15	<0.01	0.38	0.08	17.5	20	<0.05	0.39	0.19	13.75	0.43	0.9	21	0.18	4.8
I383224		9.37	0.02	2.49	8.19	2100	1440	1.43	0.08	3.13	123.0	25.4	27.4	219	5.33	65.2
I383225		9.58	0.01	1.34	7.75	2090	1770	1.23	0.04	5.90	89.0	25.8	50.9	224	5.59	161.0
I383226		9.80	0.01	0.88	7.45	1845	2340	1.58	0.07	4.25	80.1	22.5	39.6	280	4.58	143.0
I383227		8.34	0.02	4.42	7.86	1220	2060	1.05	0.96	2.51	159.0	28.2	35.4	280	5.69	135.0
I383228		7.34	<0.01	0.02	0.07	<5	20	<0.05	0.08	21.3	0.44	1.35	1.3	2	0.17	2.0
I383229		5.46	0.01	0.64	7.23	670	1410	0.77	0.29	4.51	125.5	27.8	40.1	248	4.41	78.1
I383230		11.72	<0.01	0.16	6.38	342	670	0.37	0.06	6.14	17.15	22.2	41.5	193	2.12	64.9
I383231		10.82	0.04	1.45	6.74	661	890	0.66	0.77	5.02	51.5	25.0	41.2	206	3.01	50.2
I383232		12.05	<0.01	0.13	5.92	302	430	0.45	0.03	4.12	3.99	22.7	44.7	192	2.03	59.2
I383233		9.86	0.02	2.07	6.55	596	960	0.81	0.58	6.06	49.1	26.0	40.8	219	3.76	49.3
I383234		10.52	0.01	0.74	6.95	671	700	0.69	0.28	7.01	11.40	26.9	37.1	171	2.97	35.1
I383235		8.85	<0.01	0.42	6.71	455	1190	0.65	0.29	4.14	13.35	22.9	38.7	258	3.02	48.7



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Plus Appendix Pages
Finalized Date: 28- AUG- 2011
Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11141979

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383200		7.84	10.70	0.16	0.2	0.034	0.01	5.8	145.5	8.87	1280	0.41	0.01	2.8	539	470
I383201		7.81	10.45	0.15	0.3	0.032	0.05	6.8	139.5	8.80	1140	0.29	0.11	1.6	517	460
I383202		8.47	10.90	0.19	0.2	0.037	0.02	8.0	138.5	9.95	1220	0.30	0.01	1.5	576	450
I383203		9.82	11.10	0.20	0.2	0.974	1.08	7.3	28.7	6.53	4160	0.38	0.20	1.3	613	350
I383204		8.21	10.40	0.19	0.2	0.041	0.29	6.3	93.3	10.20	1200	0.62	0.09	1.0	684	350
I383205		8.16	9.77	0.14	0.2	0.035	0.09	6.3	109.5	10.20	1220	0.63	0.03	0.8	674	360
I383206		8.14	9.56	0.32	0.2	0.034	0.01	6.2	110.0	10.05	1260	0.43	<0.01	0.8	685	310
I383207		2.01	14.75	0.12	1.4	0.021	3.29	10.1	9.7	0.60	284	9.05	1.22	2.0	8.3	450
I383208		2.57	11.85	0.12	1.6	0.041	1.81	26.6	18.3	4.35	676	7.74	0.07	9.6	48.6	730
I383209		2.65	16.95	0.14	2.4	0.091	2.45	37.2	28.3	2.54	505	5.89	0.09	15.1	57.4	720
I383210		3.65	14.10	0.13	1.7	0.048	1.91	30.5	21.3	4.41	901	8.58	0.09	9.8	93.0	850
I383211		3.79	17.85	0.17	2.5	0.080	2.39	37.2	30.2	0.61	199	9.34	0.13	15.6	109.5	590
I383212		4.61	17.05	0.20	2.6	0.156	2.17	41.2	24.2	0.71	449	6.64	0.22	17.2	158.0	660
I383213		4.79	16.65	0.20	2.5	0.243	2.17	40.7	23.9	0.68	474	8.12	0.22	16.1	172.5	690
I383214		3.31	17.35	0.20	2.2	0.254	2.50	33.4	36.6	0.45	389	25.6	0.09	13.3	70.7	580
I383215		3.66	13.40	0.15	1.5	0.100	1.87	27.2	18.0	3.33	1000	6.00	0.14	8.7	75.5	790
I383216		3.77	14.20	0.14	1.7	0.164	1.97	28.5	17.9	3.57	996	4.63	0.12	9.0	74.4	660
I383217		2.01	13.45	0.10	1.9	0.042	3.51	7.7	7.5	0.38	294	4.81	1.19	2.3	450	470
I383218		7.23	16.25	0.23	1.6	1.545	2.14	33.9	24.6	0.69	509	40.9	0.13	3.1	267	5320
I383219		8.99	10.10	0.23	1.0	0.858	1.49	17.3	12.2	0.33	2510	38.5	0.12	1.7	368	5160
I383220		10.90	23.2	0.32	0.8	0.089	3.58	14.8	27.9	0.59	1230	6.97	0.28	3.2	364	1380
I383221		10.10	25.1	0.29	1.2	2.85	3.83	13.6	24.4	0.34	541	33.8	0.32	3.1	311	980
I383222		0.52	0.26	0.11	<0.1	0.008	0.03	0.7	1.1	13.00	225	0.13	0.01	0.3	3.5	200
I383223		0.48	0.26	<0.05	<0.1	0.055	0.02	<0.5	0.8	0.09	103	0.40	0.01	0.1	7.6	20
I383224		7.44	21.4	0.20	0.5	0.168	3.08	12.0	21.2	1.31	680	8.94	0.45	4.6	281	1020
I383225		7.28	18.75	0.20	0.5	0.088	2.40	12.5	37.6	2.26	875	7.24	0.79	7.0	460	920
I383226		8.49	18.90	0.21	0.5	0.205	2.26	10.5	24.5	1.63	798	11.20	1.26	4.0	523	1180
I383227		9.99	19.70	0.22	0.5	1.770	2.94	13.5	16.9	1.12	1210	10.80	0.38	2.8	352	1120
I383228		0.53	0.23	0.11	<0.1	0.006	0.02	0.7	1.0	13.00	224	0.10	<0.01	0.3	4.0	200
I383229		9.59	18.20	0.22	0.9	0.146	1.91	13.4	48.5	1.84	1060	5.64	0.74	3.1	415	940
I383230		6.75	15.30	0.16	0.3	0.050	0.89	10.7	65.6	3.92	1060	0.81	1.24	4.6	264	700
I383231		9.11	17.15	0.22	0.5	0.190	1.45	12.3	46.7	3.51	1140	3.79	0.97	3.5	373	800
I383232		7.08	17.70	0.19	0.5	0.061	0.81	11.0	63.3	5.25	816	0.50	1.11	3.7	254	640
I383233		10.60	17.35	0.23	0.5	0.620	1.93	12.9	29.4	3.59	2780	6.40	0.65	3.9	320	810
I383234		8.19	18.85	0.24	0.4	0.180	1.75	13.3	39.1	3.31	2500	1.70	0.86	5.3	231	800
I383235		7.77	15.95	0.19	0.7	0.076	1.48	11.1	40.2	3.75	1860	2.98	1.03	4.3	279	670



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Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11141979

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383200		4.6	0.6	<0.002	0.03	3.01	15.1	1	0.2	321	0.10	<0.05	0.9	0.116	0.04	1.6
I383201		4.5	1.7	<0.002	0.02	2.38	14.8	1	0.2	244	0.07	<0.05	1.0	0.087	0.04	1.3
I383202		2.5	1.3	<0.002	0.03	2.47	16.4	1	0.2	228	0.05	<0.05	0.9	0.071	0.04	1.0
I383203		13.8	61.5	<0.002	5.22	14.40	14.7	2	132.5	202	0.05	0.14	0.8	0.091	0.46	1.5
I383204		2.4	14.5	0.003	0.14	5.36	15.8	1	0.9	202	0.05	<0.05	0.9	0.087	0.30	5.5
I383205		2.4	4.6	0.003	0.14	4.03	15.4	1	0.4	207	<0.05	<0.05	0.8	0.068	0.15	2.9
I383206		2.5	1.1	0.002	0.10	4.58	14.4	1	0.3	199.0	<0.05	<0.05	0.7	0.070	0.11	6.2
I383207		11.9	730	<0.002	0.01	0.67	7.3	1	1.0	54.4	0.20	<0.05	1.4	0.242	6.02	0.7
I383208		25.2	68.4	<0.002	0.03	30.6	8.8	6	1.5	172.5	0.60	<0.05	6.6	0.234	0.64	2.8
I383209		168.5	96.8	<0.002	0.08	32.2	12.0	3	2.2	100.0	0.96	0.07	9.7	0.331	0.91	3.4
I383210		173.5	75.8	<0.002	0.08	19.95	9.9	4	1.8	175.0	0.60	<0.05	7.6	0.258	0.67	3.5
I383211		159.0	99.5	<0.002	0.08	17.45	11.5	8	2.6	29.7	1.00	<0.05	11.2	0.300	1.09	4.5
I383212		147.0	95.1	<0.002	0.11	49.2	12.0	11	2.8	42.3	1.10	0.08	10.9	0.330	1.07	5.4
I383213		180.0	94.1	<0.002	0.11	48.2	11.8	12	2.7	38.9	1.04	0.08	10.9	0.317	1.15	5.5
I383214		572	103.5	<0.002	0.12	35.9	11.4	14	3.4	28.4	0.86	<0.05	9.8	0.327	1.06	5.0
I383215		215	71.5	<0.002	0.07	34.4	10.0	5	2.3	178.0	0.53	<0.05	7.6	0.241	0.67	5.4
I383216		166.0	75.6	<0.002	0.18	33.7	10.8	3	2.8	217	0.57	0.06	7.7	0.260	0.76	4.2
I383217		164.0	930	<0.002	0.31	2.66	3.3	1	3.1	48.7	2.07	0.16	2.4	0.085	7.81	0.8
I383218		477	83.0	<0.002	0.10	100.0	24.5	11	9.9	421	0.18	0.18	12.8	0.115	1.32	73.1
I383219		277	57.2	<0.002	0.09	93.5	9.9	12	5.3	131.0	0.11	0.07	4.8	0.069	0.88	34.8
I383220		86.5	125.0	<0.002	0.13	31.0	26.0	25	2.2	84.0	0.14	0.10	1.7	0.194	1.73	8.4
I383221		1160	133.0	0.002	0.08	91.8	27.0	16	16.7	78.8	0.14	0.09	1.7	0.214	2.01	14.4
I383222		2.8	2.0	<0.002	0.01	0.24	0.3	1	<0.2	49.3	<0.05	<0.05	<0.2	<0.005	0.02	0.7
I383223		41.8	1.2	<0.002	0.01	5.42	0.4	1	0.4	4.8	<0.05	<0.05	<0.2	0.005	0.07	0.3
I383224		80.7	95.6	<0.002	1.96	45.7	22.5	5	4.3	206	0.26	0.05	1.2	0.275	1.54	4.5
I383225		72.2	98.9	0.010	1.23	37.1	22.5	5	2.0	273	0.40	0.05	1.4	0.387	3.04	3.8
I383226		142.0	58.9	0.011	0.86	40.8	22.2	4	1.7	293	0.23	<0.05	1.0	0.242	3.55	14.5
I383227		686	112.0	<0.002	1.32	59.1	22.4	5	22.6	168.0	0.15	0.05	1.4	0.167	1.92	8.1
I383228		2.2	1.6	<0.002	0.02	0.21	0.3	1	<0.2	51.6	<0.05	<0.05	<0.2	<0.005	0.02	0.6
I383229		135.5	81.2	0.004	0.72	26.7	22.6	5	2.5	242	0.17	<0.05	1.4	0.184	1.59	8.1
I383230		11.6	37.9	0.007	0.66	8.57	18.3	3	0.9	261	0.25	<0.05	1.2	0.256	1.01	0.9
I383231		149.5	65.0	0.018	1.44	36.1	19.7	4	7.0	231	0.20	0.05	1.3	0.202	0.84	4.5
I383232		8.5	35.6	0.005	0.21	4.48	19.2	2	0.7	192.5	0.21	<0.05	1.2	0.193	0.46	1.0
I383233		727	78.9	0.002	2.29	21.8	20.2	9	8.5	229	0.22	<0.05	1.3	0.228	0.83	3.9
I383234		86.6	80.3	0.002	3.38	15.55	19.3	14	6.5	267	0.31	<0.05	1.5	0.301	0.73	1.7
I383235		42.7	64.7	<0.002	0.72	22.2	19.0	3	2.4	187.5	0.26	<0.05	1.3	0.253	0.79	2.6



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CERTIFICATE OF ANALYSIS WH11141979

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
I383200		88	0.2	5.6	206	10.5
I383201		88	0.1	6.4	235	10.9
I383202		91	0.1	6.0	256	8.8
I383203		83	0.9	6.8	238	7.8
I383204		91	0.2	4.8	266	9.7
I383205		85	0.1	5.2	256	8.4
I383206		85	0.1	5.6	452	9.6
I383207		52	0.3	10.7	27	46.0
I383208		130	1.0	14.3	355	55.7
I383209		147	1.3	14.5	637	90.3
I383210		103	1.5	17.3	932	65.4
I383211		134	1.3	16.1	1140	97.9
I383212		132	1.5	20.0	1660	104.5
I383213		132	1.5	20.5	1800	101.5
I383214		158	1.6	12.7	1160	79.8
I383215		93	1.5	20.0	959	61.5
I383216		102	1.4	20.3	888	62.2
I383217		21	8.3	3.6	142	74.5
I383218		124	1.8	31.3	2320	75.3
I383219		97	1.1	58.1	4820	35.7
I383220		196	1.1	30.2	6390	42.0
I383221		231	1.4	9.5	5200	61.0
I383222		3	0.1	1.0	34	<0.5
I383223		2	0.1	0.5	255	0.6
I383224		177	1.9	15.6	2350	18.7
I383225		164	1.7	15.4	2350	23.4
I383226		186	1.3	13.8	2990	22.0
I383227		168	1.6	18.8	5180	24.2
I383228		3	0.1	1.0	32	<0.5
I383229		152	0.8	17.7	3870	44.7
I383230		126	0.5	7.6	904	14.3
I383231		137	0.9	10.2	1420	23.0
I383232		111	0.3	5.7	278	18.0
I383233		138	1.3	13.2	2870	23.9
I383234		141	1.7	10.1	1090	19.4
I383235		133	0.7	8.7	1180	33.5



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Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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Project: Rackla Gold- NOW

P.O. No.: Batch 21- Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 27-JUL- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% < 2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383272		7.68	<0.01	0.02	0.09	<5	20	0.06	0.02	21.2	0.05	1.28	1.2	<1	0.21	4.8
I383273		3.44	<0.01	0.50	2.41	188.5	580	1.24	0.11	2.66	2.60	29.2	6.7	46	2.40	29.3
I383274		4.05	<0.01	0.68	1.85	160.0	410	1.08	0.07	1.51	1.92	22.3	4.8	40	1.38	46.2
I383275		5.41	<0.01	0.35	1.86	158.0	390	1.03	0.07	1.95	1.30	22.3	4.8	41	1.52	28.2
I383276		0.26	0.50	1.60	0.15	6510	50	0.10	75.8	16.65	1.99	14.35	1.6	5	0.36	18.5
I383277		5.33	<0.01	0.29	2.20	156.0	440	1.15	0.16	3.61	1.29	25.1	5.2	43	1.66	26.6
I383278		2.93	<0.01	0.25	2.35	148.5	480	1.19	0.10	5.00	1.21	24.6	5.3	42	1.86	22.6
I383279		2.47	0.01	0.39	1.84	165.5	440	0.86	0.08	5.72	1.59	22.2	5.0	37	1.59	29.7
I383280		0.56	0.03	0.38	6.49	216	1080	2.18	0.12	5.72	1.45	36.4	31.5	170	4.30	34.7
I383281		8.23	<0.01	0.02	0.09	<5	30	0.06	0.02	22.5	0.07	1.39	1.0	<1	0.22	1.6
I383282		1.37	0.07	2.11	6.03	406	790	1.41	1.28	8.71	0.29	20.1	34.3	145	4.65	78.4
I383283		3.48	0.01	0.42	5.15	1020	770	0.69	0.62	8.73	0.30	21.1	56.3	191	3.53	18.7
I383284		0.91	0.02	0.48	3.32	278	820	0.76	2.57	6.09	0.55	24.5	9.3	96	2.43	17.0
I383285		4.52	0.01	0.18	6.51	316	1640	1.25	0.13	7.83	0.65	26.2	58.8	189	4.84	81.1
I383286		8.66	<0.01	0.26	6.16	1025	790	0.83	0.08	7.53	1.31	23.6	44.5	176	3.25	43.5
I383287		8.25	0.01	0.58	6.37	607	380	0.76	0.08	7.61	1.35	24.9	41.7	166	1.77	61.2
I383288		8.35	<0.01	0.11	6.30	618	290	0.67	0.01	7.54	0.96	25.1	39.6	186	1.40	61.6
I383289		7.49	0.01	0.09	3.26	279	180	0.60	0.03	6.98	0.98	29.4	21.7	121	1.16	59.0
I383290		7.63	0.02	0.17	0.65	1815	60	0.18	0.13	7.79	1.56	26.1	8.0	29	0.49	71.5
I383291		1.98	<0.01	0.16	0.84	2620	80	0.21	0.15	8.43	2.09	25.0	8.2	32	0.67	63.7
I383292		7.58	<0.01	0.05	7.97	214	1810	2.04	0.02	2.46	0.12	29.5	35.9	230	5.31	25.1
I383293		8.28	<0.01	0.37	8.38	388	2400	1.72	0.08	2.62	0.09	28.1	35.0	308	4.98	123.5
I383294		0.31	<0.01	0.79	5.65	581	670	0.98	0.66	11.85	0.16	28.1	50.0	284	3.29	51.5
I383295		4.15	0.01	0.45	6.67	262	1580	0.81	0.23	14.15	0.23	28.0	33.1	305	4.17	183.0
I383296		0.26	1.89	0.29	0.26	>10000	20	0.07	275	13.85	0.21	15.95	2.3	6	1.22	25.2
I383297		6.69	0.04	0.86	6.32	588	630	0.68	20.9	7.35	0.21	22.5	35.7	232	3.48	39.3
I383298		7.11	<0.01	0.14	6.95	260	790	0.53	0.31	5.10	0.18	25.9	38.1	252	2.91	140.5
I383299		7.88	<0.01	0.12	6.70	189.5	1060	0.53	0.34	6.46	0.16	22.8	35.3	193	3.41	115.5
I383300		8.58	0.01	0.71	7.19	255	350	0.36	0.10	4.51	0.16	23.4	37.1	168	1.66	55.8
I383301		2.19	0.02	2.73	6.66	379	230	0.48	0.24	5.82	0.20	21.0	32.4	145	1.78	59.3
I383302		6.58	0.06	1.46	7.11	595	680	0.74	0.14	5.40	0.67	22.3	31.5	147	4.99	54.3
I383303		6.75	0.03	5.77	7.25	301	230	0.66	0.47	6.18	1.85	21.1	34.5	138	3.56	131.5
I383304		6.68	0.02	3.47	7.36	182.0	130	0.51	0.13	7.24	1.93	20.2	32.6	159	3.24	128.0
I383305		8.01	0.01	1.66	7.64	252	140	0.58	0.07	5.22	0.09	24.0	35.7	163	2.45	68.7
I383306		7.12	0.15	7.88	6.22	895	340	0.67	1.32	6.55	0.17	21.7	37.3	153	4.14	78.6
I383307		6.81	0.02	0.27	4.36	191.5	30	0.50	0.13	4.47	0.10	12.50	81.9	382	1.23	90.1



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CERTIFICATE OF ANALYSIS WH11143579

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383272		0.46	0.32	0.06	<0.1	<0.005	0.03	0.6	1.0	12.80	199	0.25	0.01	0.3	2.8	200
I383273		1.88	7.37	0.09	1.1	0.049	0.95	20.0	8.3	1.33	289	68.7	0.07	6.2	153.0	500
I383274		1.23	5.54	0.08	0.9	0.039	0.74	15.4	8.3	0.74	165	62.0	0.05	4.7	136.0	430
I383275		1.37	5.66	0.07	0.8	0.020	0.75	15.2	8.8	0.96	157	52.9	0.05	4.6	135.5	530
I383276		10.95	1.18	0.15	0.1	0.110	0.06	6.2	1.9	8.89	4770	2.28	0.02	1.3	7.5	140
I383277		1.48	6.44	0.06	0.8	0.016	0.90	16.8	6.4	1.50	212	48.1	0.06	3.9	122.0	710
I383278		1.41	6.81	0.07	0.8	0.018	0.96	16.4	5.8	1.59	221	45.1	0.06	3.8	122.0	800
I383279		1.39	5.60	0.06	0.8	0.030	0.74	15.4	4.3	0.83	250	51.0	0.05	3.6	130.0	560
I383280		5.71	18.45	0.14	1.3	0.040	2.57	19.1	17.6	1.43	635	7.06	0.23	7.8	164.0	1770
I383281		0.47	0.27	0.07	<0.1	0.006	0.04	0.7	1.1	13.80	217	0.28	0.01	0.3	2.6	210
I383282		6.37	14.25	0.12	0.3	0.045	2.31	9.4	16.4	4.06	965	0.67	0.23	4.9	159.5	880
I383283		6.13	12.70	0.12	0.6	0.149	1.48	10.7	22.5	7.03	1690	0.75	0.47	2.2	461	700
I383284		4.10	8.32	0.08	1.2	0.060	1.12	15.7	8.4	2.76	963	1.25	0.14	4.2	99.5	3330
I383285		5.87	15.20	0.12	0.8	0.052	2.23	12.8	22.5	4.06	1210	1.67	0.45	3.8	807	870
I383286		6.67	14.90	0.13	0.8	0.118	1.39	11.4	39.1	4.03	1170	0.70	0.76	3.4	426	810
I383287		6.93	15.60	0.13	1.2	0.121	0.74	12.0	55.7	4.41	1220	0.82	1.25	5.0	347	770
I383288		6.53	15.55	0.12	0.8	0.051	0.64	12.0	63.9	4.68	1180	0.62	1.29	4.0	264	820
I383289		13.70	12.35	0.20	0.5	0.031	0.42	14.3	24.4	2.94	1580	0.97	0.59	2.6	187.0	2920
I383290		11.50	4.55	0.18	0.2	0.030	0.16	11.8	4.8	0.89	1500	1.36	0.07	0.7	97.5	510
I383291		11.75	5.19	0.16	0.2	0.034	0.21	12.0	5.2	0.98	1620	1.58	0.09	0.8	88.2	550
I383292		8.16	20.5	0.17	1.7	0.066	2.92	14.8	22.7	2.40	490	1.83	0.44	4.1	122.5	1270
I383293		3.91	21.2	0.12	1.7	0.069	3.75	13.6	14.4	1.49	397	1.89	0.25	6.1	106.0	1530
I383294		5.02	13.15	0.11	1.3	0.047	2.33	15.8	10.9	0.82	1260	7.75	0.17	4.9	193.5	1530
I383295		4.70	15.65	0.12	0.8	0.058	2.71	14.1	18.0	1.42	1520	2.34	0.23	3.5	150.5	1010
I383296		15.90	1.49	0.22	0.2	0.087	0.11	7.8	2.0	7.36	3360	4.90	0.01	1.7	11.0	210
I383297		6.70	15.10	0.11	0.6	0.038	1.71	11.2	46.3	3.67	1020	1.86	0.65	3.4	139.5	720
I383298		7.09	17.25	0.12	1.1	0.068	1.23	12.9	69.7	4.28	1060	0.61	1.14	3.1	175.5	690
I383299		6.36	15.95	0.11	0.6	0.050	1.30	11.5	56.6	4.03	1050	0.86	0.92	2.8	128.5	610
I383300		6.75	16.45	0.12	0.7	0.422	0.68	11.6	85.5	4.22	1610	0.51	1.69	4.6	97.1	690
I383301		6.15	14.05	0.11	0.4	0.543	0.77	10.6	85.8	3.75	2180	0.72	1.31	4.1	80.3	640
I383302		6.95	16.80	0.12	0.6	1.030	1.40	11.3	54.8	3.44	1780	0.78	0.72	4.3	88.8	680
I383303		7.21	15.25	0.20	0.4	1.370	1.08	10.6	36.7	4.15	1850	1.00	0.45	4.0	89.2	730
I383304		6.85	14.55	0.12	0.5	1.730	0.36	9.8	37.0	3.79	1120	1.04	1.41	10.9	90.0	700
I383305		6.84	18.55	0.12	0.5	0.307	0.88	12.0	35.1	3.94	1150	0.66	1.71	7.7	85.8	770
I383306		6.98	15.00	0.12	0.4	1.055	1.65	10.8	37.0	4.56	2890	0.48	0.52	4.3	198.5	610
I383307		8.04	10.05	0.13	0.3	0.066	0.22	6.2	101.5	9.77	1500	0.41	0.02	1.5	676	390



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CERTIFICATE OF ANALYSIS WH11143579

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
I383272		2.6	1.4	<0.002	0.01	<0.05	0.4	1	<0.2	48.8	<0.05	<0.05	<0.2	0.005	0.7
I383273		13.1	39.3	0.032	1.56	15.30	4.6	5	1.2	88.5	0.40	0.10	4.0	0.108	13.3
I383274		10.8	31.0	0.034	0.91	16.85	3.4	4	0.9	49.2	0.32	0.08	3.0	0.076	16.0
I383275		15.1	30.6	0.027	1.14	11.75	3.6	4	0.8	55.7	0.29	0.08	2.9	0.089	14.5
I383276		113.0	5.5	<0.002	9.41	3.15	0.5	2	3.2	120.0	<0.05	0.10	0.8	0.010	0.5
I383277		17.3	34.1	0.023	1.17	11.60	4.0	5	0.8	98.8	0.24	0.08	3.3	0.088	12.8
I383278		17.8	37.8	0.022	1.08	10.50	4.3	4	0.9	141.0	0.24	0.08	3.6	0.092	12.7
I383279		16.1	29.2	0.029	1.09	15.25	3.6	4	0.8	154.5	0.21	0.07	2.9	0.068	11.6
I383280		23.6	78.1	0.008	6.14	15.95	15.5	3	2.1	187.5	0.49	0.08	4.5	0.232	12.8
I383281		1.5	1.8	<0.002	0.01	0.06	0.3	1	<0.2	49.0	<0.05	<0.05	<0.2	<0.005	0.6
I383282		18.4	69.7	<0.002	5.56	50.3	15.6	5	1.9	336	0.28	0.08	0.9	0.215	2.3
I383283		7.5	66.3	0.002	3.35	7.30	15.8	3	5.2	312	0.12	0.07	0.9	0.110	2.5
I383284		8.2	45.0	0.011	3.15	10.50	8.6	2	2.3	163.5	0.30	0.22	3.1	0.140	14.8
I383285		6.4	72.9	0.024	1.54	22.1	19.1	1	1.2	294	0.22	<0.05	1.3	0.196	24.7
I383286		10.4	51.6	0.007	1.94	10.85	17.1	1	0.9	336	0.20	<0.05	1.1	0.168	6.8
I383287		21.0	28.8	0.003	2.64	11.80	18.3	1	1.5	364	0.29	<0.05	1.3	0.229	8.1
I383288		10.7	25.1	0.002	0.74	4.08	18.0	1	0.7	292	0.23	<0.05	1.2	0.181	5.2
I383289		8.5	16.9	0.011	1.16	7.67	8.9	1	0.4	180.5	0.15	0.06	1.4	0.084	5.1
I383290		11.5	5.1	0.012	2.27	15.60	1.6	2	0.2	178.0	<0.05	0.25	1.3	0.018	3.7
I383291		12.3	6.6	0.010	2.27	15.05	1.9	2	0.3	190.5	<0.05	0.25	1.2	0.020	3.2
I383292		6.1	76.9	0.008	0.25	5.70	24.8	1	1.2	128.0	0.15	<0.05	2.3	0.211	3.4
I383293		6.0	62.6	0.005	1.33	11.30	26.1	2	1.7	110.0	0.24	<0.05	2.0	0.308	2.9
I383294		10.5	58.7	0.020	5.21	17.50	15.7	3	1.7	212	0.24	0.11	2.3	0.235	8.8
I383295		11.2	66.6	0.005	2.87	12.80	21.1	2	1.2	306	0.17	0.06	1.7	0.202	4.7
I383296		9.5	16.6	0.002	>10.0	10.80	0.6	2	2.2	89.3	0.08	0.20	0.6	0.023	0.6
I383297		70.8	59.9	0.002	5.29	38.7	19.4	2	1.8	255	0.17	0.20	1.4	0.204	2.1
I383298		9.0	40.1	0.004	1.74	5.64	21.7	2	1.0	244	0.15	0.09	1.8	0.194	2.1
I383299		11.3	43.2	0.006	1.51	10.70	19.7	1	0.7	318	0.13	0.11	1.6	0.174	3.2
I383300		16.5	35.9	0.003	1.14	10.45	21.6	1	13.9	279	0.20	<0.05	1.6	0.239	1.0
I383301		28.9	47.2	0.003	1.33	25.9	19.9	1	25.2	278	0.19	0.06	1.5	0.226	4.1
I383302		97.7	82.1	0.007	2.53	35.2	21.0	1	38.7	218	0.18	0.07	1.6	0.255	2.5
I383303		508	54.7	<0.002	2.19	387	20.5	1	29.0	124.5	0.17	0.14	1.5	0.224	2.5
I383304		1050	17.3	0.002	2.34	509	21.1	2	17.6	333	0.45	0.21	1.5	0.533	3.3
I383305		22.2	51.2	0.003	1.42	37.5	21.5	1	30.3	193.5	0.32	<0.05	1.7	0.412	1.7
I383306		46.4	81.4	0.007	3.88	58.9	18.9	1	69.9	220	0.18	0.20	1.4	0.238	4.5
I383307		5.7	17.2	0.003	0.39	7.58	13.9	1	1.4	124.0	0.07	<0.05	0.8	0.102	3.5



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Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11143579

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		V	W	Y	Zn	Zr	As
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.001
I383272		4	1.0	1.0	12	0.8	
I383273		544	1.6	9.4	436	46.8	
I383274		372	1.3	7.8	335	36.2	
I383275		353	1.3	8.9	185	35.4	
I383276		7	135.5	7.0	464	4.3	
I383277		313	1.2	10.1	183	34.5	
I383278		316	1.2	10.8	193	34.5	
I383279		345	2.4	11.2	338	34.3	
I383280		247	10.4	11.5	192	54.6	
I383281		3	0.1	1.0	13	0.5	
I383282		126	1.2	7.9	83	14.5	
I383283		108	1.0	11.0	283	29.2	
I383284		135	1.0	12.3	92	44.1	
I383285		138	0.7	8.5	958	36.7	
I383286		125	0.6	8.4	714	33.0	
I383287		128	0.9	8.1	516	52.4	
I383288		126	0.6	7.0	345	37.3	
I383289		113	0.4	9.7	395	22.7	
I383290		89	0.3	9.4	356	9.5	
I383291		104	0.4	9.7	446	10.6	
I383292		209	0.8	6.9	130	62.2	
I383293		241	1.5	6.6	87	63.5	
I383294		297	1.8	14.9	43	46.8	
I383295		166	0.9	13.8	122	34.7	
I383296		8	67.3	7.8	59	7.4	2.64
I383297		146	1.3	8.6	84	25.3	
I383298		152	0.6	8.0	115	40.3	
I383299		140	0.5	7.8	105	23.6	
I383300		144	0.4	6.3	105	22.7	
I383301		134	0.6	6.7	94	17.9	
I383302		147	1.0	8.6	228	27.6	
I383303		146	1.0	10.8	481	15.3	
I383304		159	1.5	15.5	541	17.1	
I383305		163	0.7	12.8	137	19.0	
I383306		129	1.6	10.4	117	17.6	
I383307		88	0.2	6.3	217	12.9	



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CERTIFICATE OF ANALYSIS WH11143579

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11151061

Project: Rackla Gold - Now

P.O. No.: Batch 22

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: ATAC RESOURCES LTD.
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11151061

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383308		8.66	<0.01	0.36	4.09	228	90	0.35	0.17	3.51	2.28	11.30	90.7	403	1.04	100.5
I383309		2.16	<0.01	0.17	4.38	156.5	50	0.22	0.12	3.26	1.07	11.95	88.7	412	0.47	101.0
I383310		5.71	<0.01	1.01	3.39	87.5	520	1.83	0.11	0.06	7.25	44.7	4.7	66	2.50	80.9
I383311		6.07	<0.01	1.25	5.25	117.5	620	2.96	0.15	0.13	12.45	57.8	10.0	107	3.27	140.5
I383312		0.22	0.46	1.71	0.15	6180	50	0.09	69.3	16.30	2.39	13.95	1.3	7	0.36	18.3
I383313		7.27	<0.01	1.35	5.77	96.9	610	2.81	0.47	0.49	9.56	68.8	9.7	104	3.76	97.5
I383314		3.51	<0.01	1.30	6.32	51.9	690	2.74	0.21	0.08	7.34	70.0	7.3	103	4.30	75.8
I383315		5.78	<0.01	1.71	6.00	44.9	720	2.64	0.22	0.05	13.75	70.3	10.5	107	5.01	102.0
I383316		10.13	0.03	1.24	6.14	55.4	830	2.63	0.20	0.08	22.0	74.0	10.3	112	4.68	81.8
I383317		6.95	<0.01	0.94	5.86	54.3	1040	2.73	0.17	0.11	23.8	67.8	10.7	107	4.48	119.5
I383318		9.56	0.01	0.78	6.15	44.2	1050	2.63	0.16	0.36	21.6	75.7	10.1	105	5.07	85.7
I383319		7.00	0.01	0.97	5.90	45.4	1070	2.62	0.14	1.81	13.60	65.3	9.6	104	4.88	83.4
I383320		9.04	0.02	0.95	5.88	59.7	1310	2.58	0.14	0.65	13.60	66.7	4.4	118	4.78	74.6
I383321		7.34	0.03	0.83	6.35	56.0	1730	2.48	0.11	0.89	31.5	70.7	12.5	117	4.83	53.9
I383322		6.50	0.05	1.04	4.66	66.1	1490	1.90	0.20	9.55	31.2	43.1	10.8	74	4.23	47.7
I383323		9.40	<0.01	1.26	4.68	134.5	1140	1.58	0.28	7.19	12.00	46.3	9.2	87	2.85	36.3
I383324		4.82	<0.01	0.11	3.76	48	1320	1.10	0.03	11.15	4.66	38.7	6.6	62	3.31	3.9
I383325		9.96	<0.01	1.47	5.75	144.5	1890	2.42	0.05	4.86	3.93	60.8	9.6	104	4.75	56.1
I383326		8.61	0.01	0.48	1.77	143	580	0.49	0.07	13.05	7.18	14.90	19.9	38	1.64	21.2
I383327		7.85	<0.01	0.06	0.07	<5	30	0.07	0.06	21.3	0.11	1.21	0.7	1	0.20	3.1
I383328		9.13	0.02	0.73	5.52	76.8	1620	2.06	0.09	5.56	6.30	51.9	10.0	93	4.17	28.4
I383329		9.24	0.01	0.68	7.53	755	2790	1.69	0.16	7.28	11.45	26.9	60.2	191	5.02	144.0
I383330		3.86	0.01	0.83	7.81	895	2840	1.87	0.14	7.42	13.90	23.7	67.2	195	5.24	169.0
I383331		9.43	0.06	3.88	5.02	473	350	0.92	2.49	3.84	6.77	13.55	30.0	141	3.31	91.7
I383332		10.81	<0.01	0.43	6.88	1135	1020	0.87	0.05	7.37	7.72	23.0	44.0	203	2.43	55.2
I383333		10.58	<0.01	0.54	7.13	644	600	0.62	0.06	6.68	8.06	24.0	51.0	194	1.33	82.3
I383334		10.51	0.01	0.80	7.99	889	1010	0.85	1.90	6.24	12.90	28.3	58.2	264	1.72	49.3
I383335		11.90	<0.01	0.21	6.38	965	530	0.91	0.17	7.54	7.61	19.45	46.7	198	3.06	77.1
I383336		0.22	0.40	6.96	5.36	2.3	80	1.10	1.16	1.41	0.05	19.10	8.3	32	20.3	13.1
I383337		9.50	0.01	1.00	6.22	685	390	0.95	1.66	5.21	7.59	19.20	44.9	188	4.06	48.0
I383338		6.17	0.18	2.39	6.51	874	770	1.15	1.75	7.94	17.35	24.5	49.2	184	3.46	72.2
I383339		5.21	0.02	0.31	7.74	296	430	0.89	0.67	0.60	6.41	17.95	41.0	302	0.25	75.6
I383340		8.51	<0.01	0.10	8.09	132.0	80	0.71	0.04	1.52	6.15	32.2	44.5	288	0.22	61.6
I383341		8.13	<0.01	0.02	0.10	<5	20	0.06	0.03	20.9	0.10	1.16	0.8	2	0.27	1.8
I383342		10.57	<0.01	0.07	6.64	42.0	40	0.46	0.03	8.89	5.38	26.4	54.5	188	0.17	76.4
I383343		11.16	<0.01	0.06	6.30	240	1810	1.18	0.05	9.27	1.92	22.1	45.3	174	1.42	73.7



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CERTIFICATE OF ANALYSIS WH11151061

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383308		7.83	9.40	0.05	0.4	0.034	0.37	5.6	85.8	10.25	1330	0.57	0.22	1.8	690	360
I383309		8.29	10.45	0.06	0.2	0.033	0.22	5.9	99.7	10.55	1260	0.46	0.16	1.6	660	420
I383310		1.98	10.90	0.12	1.5	0.038	1.68	28.7	27.5	0.29	58	73.5	0.02	11.0	103.0	550
I383311		4.31	16.05	0.15	1.9	0.055	2.25	36.2	37.3	0.36	95	52.4	0.04	13.9	227	1240
I383312		10.95	1.06	0.06	0.1	0.115	0.06	5.9	2.2	8.65	4640	2.27	0.01	1.1	7.4	150
I383313		3.72	18.10	0.17	2.1	0.057	2.43	43.2	39.8	0.47	84	22.0	0.19	15.7	175.5	2370
I383314		3.13	20.8	0.14	2.1	0.052	2.86	37.7	49.9	0.50	60	7.91	0.24	18.0	80.6	710
I383315		3.80	18.75	0.15	2.8	0.070	2.97	42.8	41.8	0.47	102	11.70	0.05	19.7	92.4	820
I383316		3.41	20.4	0.17	2.7	0.056	3.04	43.2	39.5	0.43	134	10.55	0.05	21.7	97.4	830
I383317		3.50	18.90	0.15	2.9	0.050	2.86	39.0	40.7	0.45	134	6.17	0.06	18.0	94.0	990
I383318		3.12	19.45	0.15	2.9	0.045	2.99	44.2	44.2	0.62	150	2.50	0.06	21.0	69.2	590
I383319		3.12	18.65	0.14	2.5	0.049	2.73	38.5	41.8	1.32	263	2.76	0.14	16.3	65.3	500
I383320		3.46	18.50	0.11	2.7	0.095	2.62	39.9	39.5	0.74	119	4.33	0.15	16.5	45.9	740
I383321		4.36	19.30	0.13	3.1	0.095	2.28	44.9	30.8	0.73	274	6.62	0.14	15.7	103.5	720
I383322		4.11	13.95	0.13	1.4	0.462	2.06	25.3	21.3	4.79	1970	8.85	0.07	8.0	71.8	950
I383323		4.24	11.60	0.11	1.8	0.103	1.76	27.9	16.1	3.52	1530	5.69	0.41	6.2	72.2	1120
I383324		2.99	10.65	0.11	1.2	0.037	1.61	24.1	22.1	5.39	1530	3.13	0.08	3.6	43.2	650
I383325		3.07	19.25	0.14	2.3	0.052	2.46	37.9	17.5	2.35	729	3.11	0.12	10.6	58.7	1250
I383326		5.66	5.32	0.07	0.7	0.031	0.76	9.4	8.5	4.84	5200	5.32	0.05	1.4	104.0	3040
I383327		0.49	0.22	0.05	<0.1	0.006	0.03	0.6	1.2	13.00	222	0.10	<0.01	0.2	2.0	190
I383328		3.72	15.65	0.12	2.4	0.164	2.32	32.8	17.8	2.74	715	6.83	0.13	7.7	65.1	520
I383329		7.59	19.10	0.10	0.5	0.068	2.80	12.6	29.5	1.61	1890	1.70	0.52	5.7	368	1340
I383330		7.90	20.1	0.10	0.6	0.068	2.92	11.4	29.5	1.62	1950	1.70	0.52	5.7	382	1170
I383331		5.68	11.70	0.08	0.2	0.060	1.85	6.1	16.2	1.68	796	1.08	0.24	3.8	152.5	540
I383332		7.36	17.40	0.08	0.3	0.048	1.13	10.6	74.7	2.84	1180	0.76	1.13	4.9	275	730
I383333		6.98	18.20	0.08	0.9	0.046	0.56	10.8	101.5	2.85	1190	0.75	1.58	4.5	354	740
I383334		9.05	20.7	0.09	0.4	0.065	1.03	12.5	90.8	2.75	1320	1.99	1.54	6.6	352	860
I383335		7.64	15.20	0.07	0.2	0.054	1.37	9.3	52.8	2.62	1200	1.93	0.89	6.1	311	720
I383336		2.17	15.05	0.09	1.4	0.019	3.59	10.3	8.9	0.64	303	9.39	1.31	2.1	8.9	480
I383337		7.32	15.95	0.08	0.2	0.053	1.93	9.2	33.7	2.46	981	4.88	0.54	5.4	266	680
I383338		8.83	17.45	0.08	0.5	0.245	1.96	11.1	39.2	2.12	1170	6.75	0.58	6.1	285	750
I383339		10.00	22.6	0.07	0.5	0.254	0.13	7.6	122.5	4.16	417	5.05	2.14	11.6	522	990
I383340		9.82	21.4	0.07	0.7	0.070	0.01	14.8	135.0	4.52	519	1.73	1.88	15.1	423	1110
I383341		0.52	0.31	<0.05	<0.1	0.005	0.03	0.6	1.6	12.70	215	0.13	0.01	0.2	4.3	190
I383342		7.18	15.65	0.07	0.8	0.053	0.02	11.8	112.0	3.53	868	0.83	2.09	5.2	289	780
I383343		6.35	17.15	0.07	0.4	0.057	0.64	10.5	81.8	2.99	921	0.64	1.79	5.1	223	710



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CERTIFICATE OF ANALYSIS WH11151061

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383308		4.8	16.7	0.007	0.35	6.03	14.3	1	0.6	148.5	0.06	0.07	0.7	0.115	0.27	8.5
I383309		3.5	9.6	0.008	0.39	3.87	14.3	1	0.4	145.0	0.07	<0.05	0.7	0.096	0.19	6.3
I383310		19.8	68.0	<0.002	0.02	25.6	6.8	9	1.4	41.1	0.69	0.05	5.9	0.192	1.11	9.0
I383311		40.8	88.6	<0.002	0.01	47.6	11.2	15	2.1	32.4	0.81	0.10	8.5	0.279	1.11	12.7
I383312		108.5	4.6	<0.002	8.81	3.35	0.5	1	3.5	119.0	0.07	0.10	0.7	0.010	0.06	0.4
I383313		31.0	96.0	<0.002	0.04	39.2	11.8	18	2.3	38.7	0.94	0.13	9.3	0.319	1.04	7.6
I383314		25.6	115.0	<0.002	0.02	43.7	13.4	9	2.6	18.9	1.07	0.08	10.5	0.368	1.14	4.8
I383315		43.4	112.5	<0.002	0.02	39.3	12.1	5	2.5	18.3	1.27	0.07	10.2	0.346	1.10	4.9
I383316		41.6	113.0	<0.002	0.01	55.9	12.8	6	2.7	16.6	1.28	0.06	10.0	0.359	0.95	4.7
I383317		40.9	109.5	0.002	0.03	63.8	12.1	7	2.6	16.4	1.07	0.07	9.5	0.317	0.93	4.3
I383318		39.4	112.0	<0.002	0.04	44.6	12.1	4	2.9	19.5	1.27	<0.05	10.4	0.316	0.98	3.3
I383319		50.9	104.0	<0.002	0.09	38.0	12.1	2	3.1	60.5	0.96	0.05	9.0	0.298	0.82	3.0
I383320		142.5	96.6	<0.002	0.07	46.0	12.0	7	3.5	39.2	1.03	<0.05	9.2	0.292	0.92	4.2
I383321		223	89.2	<0.002	0.26	52.8	12.7	4	4.7	37.4	0.95	0.10	10.1	0.281	0.99	4.4
I383322		599	70.8	<0.002	0.41	55.7	8.8	3	4.9	324	0.50	0.17	6.3	0.218	0.91	2.8
I383323		215	65.4	0.002	0.64	54.3	9.0	5	3.2	303	0.39	0.18	6.6	0.117	0.74	2.8
I383324		19.7	54.0	<0.002	0.21	5.10	6.9	4	1.6	420	0.23	<0.05	5.0	0.093	0.55	1.6
I383325		23.3	90.4	<0.002	0.31	36.7	11.5	4	3.9	189.0	0.64	<0.05	8.2	0.199	0.94	3.0
I383326		30.4	23.8	<0.002	0.50	17.30	3.5	2	0.8	407	0.08	0.08	1.8	0.047	0.36	1.8
I383327		1.5	1.6	<0.002	0.01	0.26	0.2	<1	0.2	46.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
I383328		163.0	82.3	0.002	0.48	60.2	9.9	6	3.2	201	0.47	0.07	7.7	0.162	0.84	2.7
I383329		17.0	79.0	0.002	1.11	46.0	22.0	3	1.8	261	0.30	<0.05	1.1	0.311	1.94	3.4
I383330		17.2	84.3	0.002	1.19	48.2	22.9	3	1.9	275	0.30	<0.05	1.0	0.308	2.19	3.4
I383331		66.5	65.9	0.002	2.60	73.5	13.2	1	2.5	156.5	0.21	0.08	0.6	0.204	0.72	1.2
I383332		13.1	35.1	0.003	1.81	12.55	21.5	2	1.2	373	0.26	<0.05	1.2	0.259	0.65	1.4
I383333		15.5	19.1	0.007	2.08	16.10	21.7	1	1.2	339	0.25	<0.05	1.3	0.245	0.72	1.6
I383334		31.5	32.0	0.004	1.80	20.7	25.0	1	2.0	364	0.38	<0.05	1.4	0.340	0.60	2.6
I383335		10.6	37.4	<0.002	2.22	7.16	19.2	1	1.6	316	0.36	<0.05	1.0	0.324	0.87	1.9
I383336		14.8	770	<0.002	0.01	0.75	7.1	<1	1.1	55.8	0.19	<0.05	1.2	0.238	6.41	0.7
I383337		41.7	60.0	0.002	2.61	27.3	18.6	1	2.3	189.0	0.30	<0.05	1.0	0.292	0.86	3.9
I383338		58.3	65.2	<0.002	4.19	42.7	21.0	2	3.0	245	0.34	0.05	1.2	0.306	0.78	3.0
I383339		53.2	1.4	0.002	0.05	36.4	22.0	1	1.2	69.1	0.68	<0.05	1.0	0.599	0.63	6.4
I383340		15.5	0.4	0.003	0.02	17.10	22.9	1	1.0	110.0	0.83	<0.05	1.7	0.879	0.69	3.4
I383341		1.5	1.9	<0.002	0.01	0.24	0.3	<1	<0.2	44.9	<0.05	<0.05	<0.2	0.005	<0.02	0.6
I383342		5.8	0.4	0.024	0.31	4.25	19.3	1	0.5	237	0.32	<0.05	1.3	0.423	0.85	0.6
I383343		7.4	18.0	0.009	1.13	2.22	17.9	1	0.7	290	0.28	<0.05	1.1	0.248	0.80	0.8



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CERTIFICATE OF ANALYSIS WH11151061

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
I383308		83	0.3	4.8	467	11.0
I383309		86	0.2	4.7	262	10.2
I383310		1380	2.8	20.2	404	61.3
I383311		853	2.5	27.7	1180	85.3
I383312		8	126.0	6.2	461	3.5
I383313		373	2.3	25.0	911	77.5
I383314		216	3.6	9.3	427	82.5
I383315		207	6.1	15.0	605	107.0
I383316		248	2.1	20.6	687	113.5
I383317		182	1.4	19.1	720	100.5
I383318		135	1.3	11.9	539	111.0
I383319		149	1.4	11.2	585	99.8
I383320		176	1.5	8.2	1080	98.8
I383321		170	2.0	10.2	6390	117.0
I383322		92	2.3	15.2	4410	58.9
I383323		110	1.6	12.5	1360	65.1
I383324		55	0.9	10.5	356	41.5
I383325		150	1.6	12.6	502	83.0
I383326		42	0.8	10.2	1180	20.2
I383327		2	0.1	0.8	23	<0.5
I383328		123	1.4	11.4	1140	71.5
I383329		160	1.6	14.9	1790	13.4
I383330		162	1.7	14.8	1860	9.7
I383331		99	1.8	7.3	755	10.2
I383332		143	1.3	8.6	966	9.3
I383333		142	0.9	8.9	1180	19.9
I383334		168	1.8	11.2	1560	18.6
I383335		140	1.5	8.0	1110	4.6
I383336		55	0.3	10.3	30	49.5
I383337		136	2.0	9.3	1220	4.5
I383338		143	1.9	13.9	1540	10.0
I383339		194	1.0	13.0	1920	15.6
I383340		197	0.9	16.1	1370	25.1
I383341		3	0.1	0.8	27	<0.5
I383342		141	0.2	14.8	540	10.5
I383343		123	0.3	9.2	202	9.6



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CERTIFICATE OF ANALYSIS WH11151061

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11152443

Project: Rackla Gold- Now

P.O. No.: Batch 20- Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 22Y	Split Sample - Boyd Rotary Splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Now

CERTIFICATE OF ANALYSIS WH11152443

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA26 Au ppm 0.01	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
I383236		11.35	0.01	0.52	7.37	511	1260	0.87	0.05	6.25	7.53	26.5	48.6	142	3.64	112.0
I383237		9.21	0.05	3.59	7.29	816	340	1.39	0.42	4.65	46.9	25.0	52.7	166	4.46	110.5
I383238		10.52	<0.01	0.36	7.08	587	1580	0.94	0.04	8.76	16.75	27.5	48.3	132	3.42	178.5
I383239		11.19	<0.01	0.10	6.77	396	1220	0.60	0.02	9.98	5.99	24.2	44.5	126	2.74	116.5
I383240		11.10	0.01	0.08	5.89	331	1320	0.59	0.02	12.50	0.80	21.5	37.4	118	2.52	80.3
I383241		11.63	<0.01	0.04	6.19	142	650	0.42	0.01	10.25	0.19	21.1	45.3	163	1.17	66.6
I383242		12.38	<0.01	0.12	6.09	71	1180	0.46	0.02	11.60	0.21	19.90	35.6	119	1.62	78.1
I383243		5.97	<0.01	0.11	6.31	130	1030	0.48	0.01	11.60	0.17	20.7	41.6	130	1.49	78.1
I383244		11.60	0.02	1.44	5.69	378	510	0.62	0.13	15.45	0.55	18.00	33.2	105	3.45	72.0
I383245		11.27	<0.01	0.18	5.86	282	1180	0.53	0.03	14.00	0.23	16.95	33.3	117	2.77	69.2
I383246		12.38	<0.01	0.13	6.54	400	610	0.53	0.03	8.93	0.38	20.5	41.3	142	1.55	139.0
I383247		11.73	<0.01	0.15	6.85	114.0	740	0.47	0.06	7.97	0.37	21.9	45.3	131	1.33	122.5
I383248		5.20	<0.01	0.09	6.38	120.5	510	0.43	0.03	9.84	0.67	23.7	46.7	117	1.17	101.5
I383249		12.07	0.01	0.09	6.38	498	1100	0.62	0.05	11.40	0.17	21.8	44.4	115	2.27	153.5
I383250		11.17	0.01	0.18	6.48	311	750	0.73	0.06	10.05	0.17	25.7	46.4	124	2.97	208
I383251		11.09	0.04	0.16	6.36	296	800	0.68	0.04	6.93	1.47	23.6	50.5	141	2.42	172.0
I383252		11.69	0.01	0.09	6.51	642	580	0.53	0.02	6.97	0.10	23.8	45.7	146	2.28	109.0
I383253		12.43	0.01	0.09	5.26	903	710	0.53	0.02	15.80	0.19	19.40	34.2	114	2.39	105.5
I383254		12.21	0.03	2.00	5.93	1320	680	0.99	0.01	8.91	2.58	20.3	42.7	123	4.05	128.5
I383255		11.37	0.01	0.18	6.62	792	1260	0.85	0.03	8.69	0.70	24.1	46.4	161	3.77	101.5
I383256		6.26	0.42	26.3	6.21	504	840	0.90	45.1	4.49	32.9	24.7	41.3	135	5.25	421
I383257		7.98	<0.01	0.05	0.08	<5	20	0.06	0.08	20.8	0.09	1.51	1.4	1	0.18	2.6
I383258		0.23	1.95	0.26	0.24	>10000	20	0.08	258	13.65	0.21	17.95	2.7	7	1.16	29.0
I383259		12.07	0.27	6.35	6.63	967	1110	0.86	22.1	7.69	2.82	23.2	40.5	113	4.17	203
I383260		12.19	<0.01	0.11	6.82	910	740	0.80	0.11	8.10	1.04	26.4	39.9	141	2.53	144.0
I383261		11.52	0.01	0.34	7.06	728	1150	0.77	3.25	7.96	0.78	26.7	40.3	126	3.51	95.4
I383262		12.11	0.05	1.66	6.49	2190	570	0.83	37.5	9.05	2.02	24.4	57.9	126	3.51	255
I383263		11.71	0.02	0.54	6.10	324	760	0.81	11.05	10.75	1.40	22.4	41.0	116	2.29	371
I383264		0.23	0.42	1.67	0.15	6360	50	0.08	75.4	17.15	2.17	17.80	2.0	7	0.35	19.4
I383265		11.41	0.03	0.27	6.16	222	890	0.65	0.31	13.25	0.21	23.9	43.0	125	2.78	115.0
I383266		10.01	0.03	0.31	6.55	433	810	0.81	0.34	9.76	0.23	27.5	46.8	133	2.70	48.2
I383267		8.10	<0.01	0.01	0.07	<5	20	0.07	0.09	21.2	0.06	1.61	1.8	1	0.15	3.0
I383268		11.94	0.08	2.37	6.79	1110	1240	1.17	2.94	6.42	1.14	24.4	52.3	169	4.45	94.7
I383269		11.46	0.05	2.16	5.64	540	500	0.76	119.0	5.87	0.46	20.9	41.2	135	3.60	73.4
I383270		10.97	<0.01	0.22	7.33	1095	1500	0.95	1.41	6.86	0.52	29.9	38.0	140	5.36	46.5
I383271		10.36	0.01	0.17	6.11	1870	750	1.01	0.18	6.55	0.78	25.6	43.5	135	3.61	166.5



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CERTIFICATE OF ANALYSIS WH11152443

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383236		6.62	17.20	0.19	0.6	0.050	1.68	12.4	33.6	2.47	1100	1.50	1.70	4.9	243	770
I383237		8.49	18.95	0.29	0.4	0.165	2.68	11.3	25.5	2.03	2230	4.75	0.47	4.9	256	870
I383238		6.61	16.80	0.23	1.2	0.056	1.59	12.8	24.3	2.15	1230	2.52	1.99	5.9	248	900
I383239		6.45	14.90	0.16	1.0	0.052	1.19	11.1	22.8	2.23	1220	3.25	2.41	5.2	207	690
I383240		5.67	13.30	0.16	0.9	0.055	1.02	10.2	26.1	2.05	1140	0.98	1.80	4.5	200	600
I383241		5.99	14.55	0.16	0.8	0.044	0.42	9.8	69.7	2.50	857	1.01	2.07	3.8	197.5	590
I383242		6.06	13.20	0.13	0.9	0.044	0.71	9.3	49.9	2.19	945	0.55	2.10	3.6	149.0	580
I383243		6.15	13.70	0.15	0.8	0.044	0.64	9.6	60.6	2.42	970	0.64	2.06	4.1	169.5	610
I383244		5.88	14.75	0.18	0.2	0.083	1.64	8.8	25.0	1.89	1100	1.06	0.85	3.8	151.5	580
I383245		5.16	14.50	0.17	0.3	0.062	1.13	8.6	32.9	1.43	997	0.82	1.77	3.6	157.0	530
I383246		6.32	15.80	0.23	0.5	0.051	0.51	10.0	51.3	2.71	992	0.79	2.35	3.6	225	620
I383247		6.61	14.65	0.22	1.0	0.045	0.45	10.9	48.2	2.16	848	0.95	3.06	4.2	194.5	660
I383248		6.06	14.20	0.15	1.0	0.051	0.40	11.5	57.1	2.26	1000	9.96	2.52	4.9	328	660
I383249		6.45	14.85	0.16	1.0	0.056	1.00	10.6	22.2	2.02	1010	0.88	2.69	4.9	141.0	630
I383250		6.53	16.30	0.18	0.7	0.055	1.24	11.9	16.0	1.74	1070	1.26	2.68	4.6	199.5	660
I383251		6.23	15.15	0.18	1.2	0.052	0.87	10.9	45.1	2.58	902	3.04	2.28	4.1	390	640
I383252		6.65	15.80	0.19	0.9	0.048	0.80	10.8	40.8	2.94	888	0.95	2.36	4.1	196.5	640
I383253		5.39	13.10	0.15	0.6	0.070	1.01	9.0	29.7	1.34	1020	0.75	1.32	3.1	146.5	470
I383254		5.85	15.10	0.17	0.4	0.103	1.88	9.4	22.2	2.55	970	0.55	0.81	4.2	236	560
I383255		6.21	14.50	0.17	0.4	0.060	1.78	11.1	28.3	2.90	1190	2.26	0.82	4.9	447	690
I383256		8.78	16.55	0.25	0.6	0.462	2.36	12.9	11.2	2.14	2020	27.1	0.27	4.4	272	650
I383257		0.43	0.26	<0.05	<0.1	<0.005	0.03	0.7	1.0	12.75	192	0.11	0.01	0.3	3.5	180
I383258		15.25	1.68	0.33	0.2	0.095	0.10	8.5	1.9	7.19	3210	5.00	0.01	1.9	11.4	190
I383259		6.65	15.60	0.31	0.5	0.060	2.14	11.0	18.5	3.21	1000	0.75	0.65	5.0	163.5	660
I383260		6.22	15.75	0.14	0.8	0.059	0.94	11.9	43.5	2.81	916	1.27	2.03	4.4	186.5	640
I383261		6.16	17.60	0.17	0.9	0.056	1.88	13.1	31.6	2.90	1140	1.24	1.12	5.2	182.0	680
I383262		6.61	15.05	0.18	0.6	0.079	1.63	11.2	26.2	2.93	1460	1.19	1.52	3.8	365	650
I383263		8.26	12.85	0.19	1.1	0.078	1.24	10.7	13.0	1.34	1050	0.97	2.22	5.3	235	620
I383264		11.15	1.21	0.25	0.1	0.121	0.06	7.4	1.8	9.19	4850	2.32	0.02	1.5	7.7	150
I383265		6.47	15.30	0.17	0.5	0.051	1.60	10.6	15.6	1.40	997	0.75	1.45	4.9	206	630
I383266		8.11	14.45	0.19	1.3	0.048	1.50	13.3	16.6	1.17	822	1.12	1.21	4.7	209	880
I383267		0.43	0.25	<0.05	<0.1	<0.005	0.03	0.8	1.0	13.00	191	0.09	0.01	0.3	2.4	210
I383268		7.96	16.05	0.21	0.6	0.084	2.21	11.8	22.4	2.73	927	0.82	0.62	3.1	255	600
I383269		6.73	12.10	0.17	0.2	0.055	1.65	10.4	24.8	3.11	1010	0.80	0.47	2.9	228	480
I383270		5.64	18.10	0.13	0.6	0.073	2.30	15.8	24.3	3.39	1240	0.68	0.46	3.2	175.5	660
I383271		5.94	14.60	0.16	0.5	0.064	1.61	12.5	12.3	2.77	939	1.07	1.30	2.8	183.0	570



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CERTIFICATE OF ANALYSIS WH11152443

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383236		9.9	66.6	0.011	3.41	15.25	18.2	11	1.1	285	0.29	<0.05	1.1	0.236	1.46	1.2
I383237		49.6	71.7	0.002	4.32	79.8	17.7	22	5.8	205	0.27	<0.05	1.0	0.222	1.33	2.0
I383238		16.8	72.4	0.007	2.68	19.85	19.5	9	0.8	314	0.33	<0.05	1.3	0.272	1.48	2.6
I383239		11.1	48.0	0.066	1.88	11.60	17.4	3	0.5	301	0.29	<0.05	1.2	0.263	0.48	3.5
I383240		14.1	40.7	0.013	1.35	9.17	15.8	2	0.4	323	0.27	<0.05	1.1	0.230	0.82	1.8
I383241		8.7	15.6	<0.002	0.70	1.26	15.9	2	0.3	311	0.23	<0.05	1.1	0.193	0.15	0.3
I383242		10.8	24.9	0.004	2.15	2.96	14.7	2	0.4	341	0.21	<0.05	1.0	0.193	0.25	0.5
I383243		9.8	22.5	0.002	1.98	2.79	15.4	2	0.4	347	0.24	<0.05	1.0	0.225	0.21	0.5
I383244		14.7	60.2	0.006	5.12	30.7	16.1	2	2.7	371	0.19	<0.05	0.8	0.197	0.59	0.6
I383245		11.8	35.4	0.002	3.22	6.20	16.1	2	0.8	379	0.19	<0.05	0.8	0.203	0.37	0.3
I383246		9.5	18.7	0.003	2.47	3.48	19.2	2	0.5	341	0.20	<0.05	1.1	0.207	0.29	1.4
I383247		10.1	17.5	0.004	3.55	4.58	20.1	2	0.5	244	0.23	<0.05	1.2	0.229	0.46	0.6
I383248		11.1	13.7	0.096	2.18	53.5	16.6	2	0.4	277	0.29	<0.05	1.1	0.248	0.14	4.6
I383249		11.4	36.3	0.006	3.36	4.89	16.7	2	0.4	345	0.28	<0.05	1.0	0.257	0.33	0.9
I383250		13.1	50.5	0.008	4.52	8.66	20.3	3	0.4	290	0.25	<0.05	1.1	0.214	0.50	0.9
I383251		13.3	40.5	0.049	2.27	18.20	18.9	2	0.4	291	0.22	<0.05	1.2	0.198	1.50	12.3
I383252		7.9	36.5	0.012	1.99	4.22	19.0	2	0.3	293	0.22	<0.05	1.2	0.201	0.38	1.2
I383253		12.8	40.8	0.002	4.12	3.91	14.8	2	0.6	435	0.16	<0.05	0.9	0.145	0.37	0.4
I383254		24.6	85.9	0.005	4.25	44.1	17.4	3	2.0	296	0.22	<0.05	0.9	0.197	0.91	0.7
I383255		9.7	70.4	0.096	1.42	23.6	18.6	2	0.9	317	0.26	<0.05	1.1	0.257	1.45	4.0
I383256		1345	94.2	0.028	7.92	615	18.6	11	12.2	122.0	0.23	1.05	1.2	0.224	1.23	5.4
I383257		3.1	1.9	<0.002	0.02	0.83	0.4	2	<0.2	53.0	<0.05	<0.05	<0.2	<0.005	<0.02	0.9
I383258		9.2	18.9	<0.002	>10.0	10.05	0.7	3	2.0	90.1	0.07	0.20	0.6	0.020	0.22	0.5
I383259		41.7	94.0	0.017	4.46	107.0	19.0	3	1.9	239	0.26	0.10	1.1	0.257	0.81	0.5
I383260		29.3	40.9	0.014	2.10	5.56	18.8	2	0.8	368	0.24	<0.05	1.3	0.216	0.48	1.0
I383261		22.1	95.0	0.005	3.69	13.80	20.1	3	2.8	251	0.28	0.10	1.3	0.255	0.64	1.3
I383262		14.1	82.8	0.026	4.59	64.7	18.0	4	3.0	307	0.20	0.14	1.0	0.189	1.01	7.6
I383263		23.0	47.8	0.012	6.97	19.20	17.0	5	1.3	335	0.29	0.09	1.0	0.259	0.57	4.3
I383264		111.5	5.9	0.002	9.50	3.05	0.6	2	3.2	124.5	<0.05	0.09	0.8	0.010	0.08	0.4
I383265		27.9	61.0	0.004	6.57	17.90	18.0	2	0.6	309	0.27	<0.05	1.0	0.228	0.56	5.3
I383266		23.3	59.0	0.004	8.88	16.15	19.1	4	0.9	272	0.22	0.05	1.5	0.213	0.57	12.5
I383267		1.7	1.5	<0.002	0.02	0.20	0.4	2	<0.2	54.7	<0.05	<0.05	<0.2	<0.005	<0.02	0.9
I383268		72.7	98.0	0.002	7.48	49.8	21.0	4	2.4	249	0.13	0.07	1.6	0.191	0.90	4.6
I383269		159.5	76.9	0.003	4.67	84.6	16.9	4	2.5	214	0.12	0.79	1.3	0.178	0.88	4.1
I383270		24.2	84.7	0.003	2.40	7.38	22.2	2	2.3	233	0.13	0.06	1.7	0.200	1.01	4.2
I383271		9.4	71.4	0.002	3.73	4.51	18.3	4	0.9	308	0.13	<0.05	1.4	0.152	0.86	1.7



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CERTIFICATE OF ANALYSIS WH11152443

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	As- OG62 As % 0.001
I383236		144	0.9	8.7	968	22.1	
I383237		155	2.2	12.4	2130	16.8	
I383238		142	1.0	13.5	937	47.3	
I383239		126	0.6	11.4	463	36.2	
I383240		113	0.5	10.6	348	34.5	
I383241		116	0.4	7.6	59	29.8	
I383242		114	0.3	9.0	70	28.9	
I383243		118	0.4	8.6	63	29.2	
I383244		115	1.4	14.4	86	13.4	
I383245		112	0.5	9.7	41	13.5	
I383246		124	0.5	8.6	87	23.6	
I383247		123	0.4	9.3	86	42.4	
I383248		124	0.6	9.5	658	36.8	
I383249		129	0.9	10.0	60	34.0	
I383250		132	0.5	11.5	105	26.3	
I383251		122	0.5	10.2	860	39.6	
I383252		127	0.3	8.8	153	40.2	
I383253		104	0.5	11.3	24	22.3	
I383254		121	1.2	10.2	821	15.8	
I383255		139	0.6	9.5	826	17.7	
I383256		130	3.0	10.7	2790	29.1	
I383257		3	0.1	1.0	21	<0.5	
I383258		8	53.9	8.1	59	7.1	2.81
I383259		137	1.2	8.7	202	17.1	
I383260		128	0.5	8.6	165	25.4	
I383261		142	1.2	10.6	165	33.4	
I383262		134	1.1	12.3	533	21.7	
I383263		116	1.8	13.2	327	40.5	
I383264		7	118.0	7.2	469	4.0	
I383265		126	0.7	12.2	154	20.4	
I383266		136	0.8	11.3	293	50.0	
I383267		2	0.1	1.0	15	0.7	
I383268		150	1.5	9.4	413	29.7	
I383269		114	1.6	6.6	309	9.4	
I383270		155	1.1	7.9	547	21.0	
I383271		132	0.7	8.1	310	19.6	



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Project: Rackla Gold- Now

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Account: RCM

CERTIFICATE OF ANALYSIS WH11152443

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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Page: 1
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CERTIFICATE WH11152785

Project: Rackla Gold- NOW

P.O. No.: Batch 23

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14- SEP- 2011
Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11152785

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA26 Au ppm 0.01	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
I383344		12.44	0.03	1.09	5.80	570	700	0.47	0.10	7.39	0.19	22.2	44.8	160	1.15	69.9
I383345		12.58	0.02	1.05	6.01	449	660	0.72	0.40	7.16	1.48	22.3	46.7	163	2.15	48.5
I383346		12.36	0.01	0.33	5.92	256	560	0.59	2.81	5.31	0.21	22.4	55.4	187	2.24	86.7
I383347		10.00	0.01	3.78	6.27	741	770	1.03	3.59	7.28	7.89	23.8	53.3	161	3.84	39.5
I383348		9.56	<0.01	0.62	6.78	560	1130	0.72	0.77	7.36	11.40	25.6	48.2	186	1.84	65.2
I383349		11.06	<0.01	0.52	6.07	424	600	0.67	0.88	8.09	3.78	22.7	37.5	141	1.31	51.6
I383350		11.41	<0.01	0.32	6.60	378	710	0.68	2.77	8.01	4.14	24.5	44.2	180	1.91	40.5
I383351		4.98	<0.01	0.21	6.65	347	580	0.74	0.59	8.20	2.92	25.6	40.4	179	1.46	42.6
I383352		10.94	<0.01	0.14	5.93	139.5	90	0.64	0.04	5.48	3.05	24.5	49.3	198	0.10	73.2
I383353		12.20	0.01	0.13	5.85	49.1	60	0.75	0.05	4.57	2.29	22.8	51.6	265	0.12	73.9
I383354		0.23	2.05	0.25	0.25	>10000	20	0.09	260	12.65	0.21	13.35	2.2	9	0.96	23.5
I383355		10.73	0.02	0.77	6.27	376	160	0.96	0.16	7.26	10.20	25.1	60.4	174	0.14	75.9
I383356		10.34	0.02	0.12	7.20	230	450	0.83	0.08	5.59	19.05	26.2	69.5	196	0.29	80.6
I383357		9.55	0.01	0.60	7.15	237	720	0.59	1.15	6.13	26.3	29.5	78.9	204	0.78	86.6
I383358		9.01	0.02	0.21	7.46	210	1200	0.79	0.19	5.70	16.95	28.8	95.0	219	0.96	119.5
I383359		9.35	<0.01	0.21	6.79	182.0	1290	0.81	0.04	7.64	2.60	24.6	71.6	211	1.02	77.4
I383360		8.04	<0.01	<0.01	0.07	5	20	0.07	0.02	21.0	0.08	1.18	1.5	2	0.14	2.1
I383361		12.29	0.01	0.18	6.48	280	100	0.64	0.01	4.39	0.23	25.0	49.2	204	0.16	62.2
I383362		11.74	<0.01	0.14	6.21	195.0	80	0.72	0.01	4.33	0.09	23.4	50.7	189	0.24	57.2
I383363		12.25	<0.01	0.11	6.17	349	100	0.61	0.01	7.62	0.23	24.1	40.7	161	0.09	48.3
I383364		9.25	0.01	0.21	5.96	302	530	1.13	0.02	10.55	0.85	22.7	43.1	144	1.74	88.6
I383365		9.70	0.02	1.47	6.38	641	540	0.51	0.03	7.48	1.55	25.6	48.7	157	0.90	70.9
I383366		0.23	3.77	0.28	0.10	>10000	20	<0.05	226	9.36	0.06	6.22	1.2	10	0.50	23.2
I383367		11.53	0.01	1.03	5.62	549	430	0.62	0.15	8.32	0.16	21.9	40.0	141	1.35	77.2
I383368		12.49	0.01	1.04	5.91	519	380	0.61	19.90	6.25	0.13	20.9	39.3	152	1.02	50.9
I383369		8.02	<0.01	0.01	0.05	8	30	0.06	0.07	19.75	0.06	1.13	1.2	2	0.10	1.6
I383370		11.58	0.01	0.72	6.10	539	480	0.75	5.94	6.96	0.27	22.9	42.1	159	1.68	45.8
I383371		11.25	<0.01	0.33	6.18	511	610	0.66	2.40	5.41	1.12	23.5	53.1	183	1.59	62.7
I383372		11.83	0.02	0.62	6.22	487	850	0.83	20.9	5.30	0.38	21.5	50.6	167	2.18	46.0
I383373		11.56	<0.01	0.13	5.90	535	240	0.47	0.08	6.78	0.20	22.1	42.9	157	0.48	45.6
I383374		11.51	<0.01	0.82	5.89	468	100	0.46	0.05	8.09	0.49	22.2	38.4	149	0.20	56.6
I383375		13.95	<0.01	0.08	5.66	340	170	0.48	0.06	6.70	0.35	22.6	48.6	166	0.33	46.1
I383376		11.68	<0.01	0.09	6.07	311	460	0.50	0.13	7.40	0.97	24.5	47.0	195	0.55	78.8
I383377		10.06	<0.01	0.15	5.94	89.5	770	0.61	0.03	9.28	0.63	23.4	50.4	171	0.86	66.4
I383378		10.62	<0.01	0.12	4.92	138	570	0.68	0.02	13.75	0.12	23.4	39.5	141	1.27	54.9
I383379		11.98	0.03	0.98	5.57	364	490	0.46	0.21	12.00	0.13	25.0	42.5	302	1.48	84.2



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Finalized Date: 14- SEP- 2011
Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11152785

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383344		6.95	14.55	0.13	0.1	0.041	0.57	10.4	60.5	3.61	867	0.78	1.25	4.7	205	720
I383345		6.62	15.30	0.13	0.2	0.047	1.03	10.5	47.0	4.17	1040	0.96	1.04	3.9	225	700
I383346		7.50	15.05	0.13	0.3	0.053	0.91	10.6	55.3	4.72	837	1.15	1.11	3.3	287	670
I383347		8.18	16.80	0.20	0.4	0.116	2.24	10.3	15.9	2.77	1720	4.79	0.37	10.4	309	900
I383348		7.12	16.20	0.20	0.6	0.073	1.07	11.1	54.2	2.86	1190	2.49	1.02	8.8	424	850
I383349		7.30	17.80	0.17	0.4	0.046	1.02	10.0	48.8	3.61	1170	1.60	1.00	7.5	244	720
I383350		8.24	18.55	0.21	0.8	0.052	1.34	10.8	41.8	3.76	1070	4.85	0.98	6.8	251	780
I383351		7.20	18.05	0.17	0.8	0.037	1.01	11.2	50.9	3.90	1020	3.69	1.19	7.0	209	820
I383352		7.07	15.80	0.17	0.5	0.054	0.12	10.7	80.5	4.71	912	2.36	1.43	10.4	262	760
I383353		7.92	14.50	0.21	0.7	0.049	0.07	10.0	154.0	6.73	1580	1.98	0.60	8.9	451	730
I383354		15.55	1.65	0.27	0.2	0.103	0.10	5.8	2.2	7.08	3230	5.18	0.01	2.0	8.7	190
I383355		8.19	15.80	0.17	0.6	0.038	0.12	11.0	76.9	3.62	2850	3.25	1.54	8.8	553	860
I383356		7.51	18.85	0.18	0.8	0.050	0.19	11.5	120.5	3.53	1240	2.81	1.63	9.6	947	880
I383357		7.46	19.90	0.22	0.9	0.057	0.42	13.4	98.8	3.05	1340	3.81	1.82	9.3	938	840
I383358		7.59	20.2	0.26	0.8	0.064	0.48	12.4	110.5	3.16	1700	4.12	1.76	10.1	1100	930
I383359		7.83	18.25	0.22	0.5	0.056	0.46	10.8	81.2	3.21	1180	5.31	1.65	8.9	832	850
I383360		0.48	0.35	0.23	<0.1	<0.005	0.02	0.5	1.1	12.45	213	0.12	0.01	0.4	2.9	180
I383361		7.21	17.55	0.16	0.7	0.055	0.14	10.9	88.7	5.41	913	1.07	1.65	6.8	245	690
I383362		7.05	15.45	0.17	0.7	0.050	0.18	10.2	79.6	5.55	801	0.78	1.51	5.7	199.0	670
I383363		6.30	15.15	0.14	0.5	0.036	0.08	10.5	74.6	4.05	899	0.92	1.59	5.2	205	700
I383364		6.28	15.05	0.14	0.2	0.069	0.86	9.6	67.6	2.26	845	1.05	1.21	6.0	216	660
I383365		7.07	16.60	0.17	0.4	0.157	0.66	11.6	67.5	3.79	931	0.60	1.30	6.0	232	710
I383366		21.0	0.79	0.39	0.1	0.163	0.05	2.3	1.4	5.23	1780	5.58	0.01	1.4	6.7	70
I383367		6.70	14.55	0.13	0.2	0.041	0.78	9.4	67.0	2.63	768	1.08	1.03	6.2	196.5	650
I383368		8.58	15.20	0.16	0.3	0.033	0.79	9.0	60.1	3.16	844	0.87	1.11	6.1	184.0	630
I383369		0.44	0.30	0.22	<0.1	<0.005	0.01	0.5	1.0	11.65	195	0.07	0.01	0.3	1.3	190
I383370		7.36	16.30	0.16	0.3	0.032	1.12	9.9	58.1	3.05	801	0.85	0.95	6.7	202	650
I383371		7.59	15.55	0.17	0.5	0.044	0.69	10.1	69.8	3.87	1300	1.13	1.23	6.3	325	750
I383372		7.59	16.90	0.16	0.3	0.047	1.50	9.0	53.3	2.66	843	0.92	0.75	6.5	248	710
I383373		6.45	14.15	0.13	0.5	0.037	0.37	9.8	78.0	3.37	858	0.98	1.37	6.0	248	670
I383374		5.85	13.90	0.14	0.6	0.049	0.13	9.5	91.5	3.25	927	0.77	1.55	5.7	221	660
I383375		6.01	14.00	0.13	0.5	0.041	0.19	9.9	73.5	4.89	815	1.02	1.37	4.5	227	620
I383376		6.69	16.60	0.17	0.6	0.042	0.28	10.5	91.9	4.27	927	1.41	1.47	6.1	326	710
I383377		6.41	16.15	0.17	0.6	0.043	0.43	10.2	93.6	3.14	1080	3.72	1.34	8.0	506	810
I383378		4.85	12.70	0.13	0.7	0.047	0.57	11.5	58.5	1.74	967	1.71	1.08	4.4	238	1700
I383379		6.34	14.15	0.15	0.5	0.047	0.88	11.2	53.1	2.41	1080	0.96	1.13	3.3	220	850



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Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11152785

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383344		10.7	20.6	<0.002	4.00	25.1	17.6	2	1.1	306	0.26	<0.05	1.0	0.234	0.22	0.2
I383345		16.3	40.9	0.002	4.24	23.1	18.0	2	1.7	319	0.21	<0.05	1.0	0.201	0.52	0.7
I383346		17.1	35.9	0.006	2.94	11.55	17.0	2	1.0	251	0.19	<0.05	1.0	0.170	0.64	0.6
I383347		62.3	86.4	0.003	4.65	32.2	18.6	3	5.6	210	0.51	0.05	1.5	0.420	1.11	3.3
I383348		38.5	45.1	0.017	2.94	25.2	19.6	2	3.1	329	0.45	<0.05	1.5	0.366	1.22	3.7
I383349		13.6	42.5	0.012	4.13	12.75	19.3	3	2.7	270	0.38	<0.05	1.5	0.321	0.75	2.0
I383350		13.8	56.6	0.003	4.34	9.83	19.8	4	3.4	241	0.34	0.05	1.6	0.316	1.04	2.1
I383351		12.0	41.8	0.004	3.12	6.73	19.3	3	2.6	265	0.35	<0.05	1.6	0.326	0.81	1.3
I383352		12.9	2.0	0.003	0.26	6.23	18.7	2	0.7	205	0.53	<0.05	1.4	0.480	0.48	1.3
I383353		8.5	1.5	0.004	0.06	7.89	18.2	2	0.6	146.0	0.47	<0.05	1.3	0.436	0.33	3.5
I383354		8.5	15.7	0.003	>10.0	9.43	0.7	3	2.0	89.4	0.08	0.19	0.7	0.024	0.23	0.6
I383355		19.9	1.9	0.004	2.15	26.4	19.4	4	0.8	238	0.45	<0.05	1.5	0.385	0.24	13.9
I383356		11.5	4.2	0.036	0.89	31.9	21.2	2	0.8	267	0.50	<0.05	1.6	0.434	2.08	12.3
I383357		48.9	14.9	0.078	2.33	45.7	23.6	3	1.6	267	0.46	0.08	1.8	0.401	7.18	9.9
I383358		103.5	14.9	0.139	1.98	61.4	23.6	3	1.2	247	0.50	<0.05	1.7	0.427	6.51	19.2
I383359		17.2	12.1	0.051	2.39	41.2	21.6	3	0.6	241	0.44	<0.05	1.5	0.387	3.74	7.8
I383360		1.3	1.2	<0.002	0.02	0.17	0.3	2	<0.2	47.5	<0.05	<0.05	<0.2	<0.005	0.02	0.5
I383361		9.0	3.4	0.004	0.56	6.36	20.1	2	0.6	205	0.36	<0.05	1.3	0.295	0.14	3.5
I383362		7.0	5.2	0.003	0.56	4.79	19.4	2	0.5	235	0.31	<0.05	1.2	0.259	0.13	1.2
I383363		9.5	1.3	0.005	1.78	4.51	18.5	2	0.6	288	0.28	<0.05	1.3	0.238	0.16	4.7
I383364		10.9	25.1	0.005	3.44	7.98	17.6	2	0.8	269	0.30	<0.05	1.1	0.259	0.56	1.2
I383365		19.7	24.3	0.003	4.51	38.9	19.0	2	1.3	206	0.30	<0.05	1.4	0.263	0.40	1.1
I383366		7.4	7.0	0.003	>10.0	18.90	0.3	5	1.6	68.7	0.06	0.51	0.3	0.007	0.13	0.5
I383367		12.1	23.7	0.006	4.27	20.6	16.9	2	0.9	240	0.32	<0.05	1.1	0.273	0.42	1.5
I383368		45.0	31.8	0.003	6.55	13.05	17.1	4	1.7	228	0.33	0.17	1.2	0.274	0.29	0.7
I383369		1.2	0.8	<0.002	0.02	0.09	0.3	2	<0.2	44.4	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
I383370		18.0	42.6	0.002	6.19	16.40	18.0	3	2.0	223	0.35	0.06	1.2	0.292	0.48	1.3
I383371		37.3	26.2	0.007	4.02	15.20	18.1	2	1.2	220	0.33	<0.05	1.2	0.277	0.62	5.5
I383372		15.3	54.8	0.005	6.14	21.6	18.3	2	2.1	160.0	0.34	0.10	1.2	0.294	0.64	1.5
I383373		10.1	13.6	0.007	3.78	6.45	16.7	2	1.1	215	0.32	<0.05	1.1	0.278	0.49	3.3
I383374		15.1	4.2	0.004	3.10	19.10	17.1	2	0.8	265	0.30	<0.05	1.2	0.259	0.26	2.7
I383375		8.9	5.3	0.007	1.43	3.21	17.0	2	0.5	247	0.24	<0.05	1.2	0.199	0.20	1.8
I383376		9.8	8.7	0.009	2.27	6.04	18.3	2	0.6	249	0.33	<0.05	1.3	0.250	0.59	6.3
I383377		13.6	15.4	0.040	2.37	15.35	18.4	2	0.7	250	0.40	<0.05	1.3	0.321	1.09	18.5
I383378		7.5	18.8	0.026	3.56	9.92	15.9	3	0.5	299	0.23	<0.05	1.9	0.170	0.33	9.6
I383379		7.5	28.2	0.005	5.37	23.9	17.9	2	0.9	307	0.16	<0.05	1.4	0.142	0.36	3.0



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 Plus Appendix Pages
 Finalized Date: 14- SEP- 2011
 Account: RCM

Project: Rackla Gold- NOW

CERTIFICATE OF ANALYSIS WH11152785

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		V	W	Y	Zn	Zr	As
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.001
I383344		118	0.6	6.5	62	8.8	
I383345		121	0.9	7.4	207	14.1	
I383346		114	0.4	6.6	203	16.7	
I383347		134	2.8	13.4	1660	19.1	
I383348		135	1.0	11.7	1570	24.7	
I383349		123	1.1	10.7	649	16.4	
I383350		134	1.4	10.5	819	35.7	
I383351		134	1.2	9.4	475	34.3	
I383352		126	0.3	6.5	638	16.7	
I383353		125	0.3	7.7	2200	38.1	
I383354		8	58.7	7.4	63	6.5	2.81
I383355		127	0.5	13.4	6310	42.3	
I383356		143	0.3	9.3	2810	40.7	
I383357		150	0.4	12.9	3660	41.5	
I383358		157	0.4	14.2	3690	40.7	
I383359		139	0.6	9.4	2130	24.2	
I383360		3	0.1	0.9	24	<0.5	
I383361		119	0.1	5.5	244	29.0	
I383362		115	0.1	4.9	84	30.3	
I383363		116	0.2	5.8	172	19.0	
I383364		122	0.3	8.6	330	9.2	
I383365		128	0.8	7.9	477	16.4	
I383366		4	268	5.3	15	3.6	6.48
I383367		120	0.8	7.6	116	8.0	
I383368		118	0.9	6.3	68	10.5	
I383369		3	0.1	0.8	16	<0.5	
I383370		122	1.2	7.6	151	11.5	
I383371		123	0.6	7.4	1160	21.4	
I383372		130	1.1	7.5	599	10.6	
I383373		115	0.6	6.2	263	19.1	
I383374		114	0.4	7.0	219	26.7	
I383375		102	0.2	6.7	217	23.1	
I383376		117	0.2	7.9	343	30.1	
I383377		128	0.2	9.2	601	28.0	
I383378		145	0.2	14.5	341	28.3	
I383379		117	0.3	10.3	96	20.9	



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Project: Rackla Gold- NOW

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CERTIFICATE OF ANALYSIS WH11152785

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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Finalized Date: 11- SEP- 2011
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CERTIFICATE WH11158344

Project: Rau (Now)

P.O. No.: Batch 24 - Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rau (Now)

CERTIFICATE OF ANALYSIS WH11158344

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA26 Au ppm 0.01	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
I383380		5.86	0.07	2.19	5.41	603	170	0.63	2.02	11.95	0.90	27.4	45.0	187	2.27	72.6
I383381		10.37	0.01	0.35	7.11	138.5	150	1.04	0.21	8.47	1.55	20.2	36.8	162	3.33	156.0
I383382		8.04	<0.01	0.02	0.08	<5	20	0.11	0.01	20.3	0.06	1.27	1.8	<1	0.29	2.3
I383383		10.26	0.02	0.50	2.87	216	140	0.48	8.52	3.48	0.17	7.86	14.8	70	1.50	15.4
I383384		0.22	1.94	0.34	0.24	>10000	20	0.10	273	12.15	0.24	15.15	2.6	6	1.06	26.4
I383385		11.03	0.04	2.23	7.06	527	560	0.75	7.03	7.19	0.98	25.8	40.7	178	4.88	76.5
I383386		10.45	0.03	1.48	4.76	242	160	1.21	39.0	4.80	1.07	12.85	19.1	125	3.06	24.2
I383387		5.52	0.11	6.45	2.28	173.5	130	0.71	849	6.62	1.00	16.65	5.5	40	1.60	54.3
I383388		10.81	0.06	0.75	3.98	60	550	1.33	0.81	13.25	0.21	35.5	9.7	63	2.27	40.7
I383389		8.11	0.03	0.91	5.05	82.5	280	1.75	0.75	7.70	0.35	50.3	10.1	97	2.90	55.2
I383390		9.37	0.01	0.64	4.88	145	250	0.64	0.08	18.05	0.62	16.50	30.8	114	2.33	68.6
I383391		11.96	0.03	0.38	6.19	155	230	0.67	0.13	12.35	0.44	21.2	34.2	124	3.71	57.4
I383392		9.56	<0.01	0.39	5.91	187	230	0.59	0.04	11.60	0.34	19.05	40.9	127	3.71	74.5
I383393		11.28	0.01	0.25	6.78	243	390	0.76	0.06	11.20	0.74	18.85	38.6	147	5.77	69.2
I383394		8.39	<0.01	0.01	0.07	<5	20	0.06	0.04	20.4	0.07	1.17	1.8	<1	0.14	1.6
I383395		6.66	0.01	0.20	8.43	274	940	1.05	0.08	2.76	0.47	25.9	13.3	215	6.36	146.0
I383396		11.79	0.01	0.27	7.99	53.4	1750	0.88	0.03	3.49	0.24	24.6	27.9	222	5.72	198.5
I383397		11.79	<0.01	0.29	6.54	511	800	0.43	0.02	6.75	0.51	21.2	40.6	185	4.24	69.8
I383398		10.75	<0.01	0.14	6.73	95.4	620	0.52	0.04	9.46	0.24	22.6	38.3	165	3.19	86.4
I383399		0.23	4.09	0.29	0.10	>10000	20	<0.05	232	9.33	0.07	6.37	1.5	8	0.55	27.1
I383400		11.27	<0.01	0.18	6.97	256	430	0.27	0.04	10.25	0.25	26.6	43.5	180	2.09	75.8
I383401		11.57	<0.01	0.13	7.29	207	540	0.33	0.05	7.11	0.85	25.3	40.0	176	2.11	110.5
I383402		11.72	<0.01	0.28	6.77	233	770	0.48	0.03	9.65	0.28	22.9	34.6	165	2.05	98.6
I383403		11.12	<0.01	0.31	7.00	446	230	0.40	0.04	4.19	0.22	24.5	46.5	168	0.69	101.0
I383404		5.52	<0.01	0.36	7.06	461	290	0.44	0.07	4.99	0.31	24.1	40.5	157	0.80	78.2
I383405		12.04	0.01	0.24	7.10	294	690	0.69	0.01	5.31	0.24	24.3	36.4	152	1.79	107.5
I383406		11.49	<0.01	0.16	7.14	35.1	210	0.57	0.01	4.80	0.58	19.65	40.5	156	1.03	95.6
I383407		11.31	<0.01	0.15	7.80	17.5	40	0.53	0.02	5.94	0.15	21.3	41.6	173	0.42	103.5
I383408		11.94	<0.01	0.13	7.51	13.4	30	0.49	0.01	5.65	0.11	27.0	39.7	173	0.66	74.2
I383409		12.55	<0.01	0.16	7.77	19.1	20	0.54	0.02	5.80	0.14	23.4	45.5	171	0.28	105.0
I383410		11.76	<0.01	0.15	7.95	6.6	30	0.68	0.01	3.37	0.13	24.5	44.4	204	0.24	97.4
I383411		5.61	<0.01	0.17	7.25	3.5	20	0.49	0.04	5.59	0.15	30.8	39.2	128	0.58	125.0
I383412		11.34	0.01	0.21	7.65	221	700	0.54	2.84	4.25	0.11	25.0	40.3	179	1.96	93.0
I383413		11.58	0.01	0.72	5.39	479	190	0.48	0.38	4.58	0.22	19.75	75.1	295	0.97	76.2
I383414		12.09	<0.01	0.11	5.07	103.0	<10	0.25	0.03	4.05	0.18	15.20	76.5	283	0.19	108.0
I383415		6.28	<0.01	0.06	5.59	51.1	<10	0.29	0.01	3.41	0.14	27.0	53.7	245	0.31	17.4



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Finalized Date: 11- SEP- 2011
Account: RCM

Project: Rau (Now)

CERTIFICATE OF ANALYSIS WH11158344

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383380		6.46	13.15	0.25	0.5	0.050	1.38	13.8	37.4	2.55	1260	0.77	0.62	2.5	270	920
I383381		5.80	18.65	0.23	0.9	0.127	2.42	9.2	21.0	1.20	1100	0.77	0.44	6.5	204	1150
I383382		0.47	0.70	0.08	<0.1	0.005	0.03	0.7	1.3	12.75	208	0.07	0.01	0.4	2.4	180
I383383		3.51	6.26	0.14	0.2	0.024	0.87	4.0	10.2	0.86	417	0.78	0.20	1.4	50.6	260
I383384		14.95	2.14	0.41	0.2	0.095	0.10	7.3	2.5	7.09	3190	5.37	0.01	1.9	8.8	190
I383385		6.98	16.15	0.19	0.4	0.213	2.62	12.5	15.7	3.97	1220	1.10	0.36	3.2	147.5	770
I383386		5.30	12.50	0.21	0.3	0.049	1.82	6.4	13.7	2.56	865	1.27	0.20	2.1	76.7	270
I383387		4.32	6.97	0.19	0.8	0.054	0.92	9.7	8.5	2.14	652	2.00	0.06	2.6	31.9	400
I383388		2.93	11.55	0.16	1.4	0.039	1.62	22.0	10.0	2.10	972	4.43	0.10	4.5	80.7	590
I383389		3.15	15.55	0.19	2.1	0.049	2.11	31.1	11.1	0.78	369	9.29	0.13	7.5	75.6	1550
I383390		4.49	12.55	0.19	0.8	0.049	1.95	8.1	12.2	0.90	940	0.62	0.14	2.8	114.0	510
I383391		5.51	15.55	0.21	0.5	0.052	2.42	9.7	21.1	1.40	821	0.64	0.16	3.6	120.0	590
I383392		5.90	15.45	0.22	0.5	0.050	2.37	9.0	20.5	1.71	740	0.69	0.15	3.7	133.5	580
I383393		5.31	17.50	0.23	0.8	0.109	2.74	8.8	26.1	1.90	1010	1.09	0.16	3.4	145.0	650
I383394		0.46	0.68	0.10	<0.1	<0.005	0.02	0.6	1.1	12.95	210	0.09	<0.01	0.4	2.1	190
I383395		3.98	23.7	0.22	1.2	0.108	4.01	11.4	44.6	1.76	276	0.24	0.19	2.6	71.7	980
I383396		3.07	21.6	0.21	1.4	0.087	3.62	10.9	41.2	1.77	423	0.43	0.20	3.2	71.4	930
I383397		5.36	15.65	0.22	0.8	0.070	2.47	10.9	28.7	3.33	916	0.67	0.29	1.8	178.5	550
I383398		5.58	16.50	0.21	0.8	0.062	1.65	11.4	41.1	2.55	1260	1.88	0.89	2.2	209	620
I383399		20.2	1.13	0.49	0.1	0.135	0.05	2.5	1.5	5.18	1740	5.69	0.01	1.4	7.4	80
I383400		6.16	16.30	0.18	0.9	0.056	1.01	13.1	56.2	2.84	1210	1.85	1.55	2.7	136.0	600
I383401		6.34	17.25	0.21	0.9	0.084	1.08	12.9	55.7	3.10	965	0.86	1.85	2.4	110.5	670
I383402		4.97	15.65	0.18	0.7	0.046	1.08	11.2	56.8	2.65	979	1.39	1.27	2.9	99.8	610
I383403		6.88	17.40	0.21	0.9	0.066	0.44	12.0	91.4	4.25	731	0.88	1.58	4.3	109.5	660
I383404		6.53	17.55	0.18	0.8	0.063	0.50	11.8	90.7	4.11	780	0.65	1.56	4.6	105.0	670
I383405		5.99	18.50	0.22	0.6	0.065	0.74	11.9	83.2	3.45	826	0.62	1.36	5.3	89.5	710
I383406		7.00	16.80	0.22	0.5	0.100	0.11	9.5	115.5	4.10	804	0.65	1.88	11.2	87.4	770
I383407		7.28	20.1	0.20	0.9	0.075	0.02	10.4	63.9	4.35	762	0.30	2.30	14.0	104.5	760
I383408		7.55	18.95	0.22	1.1	0.069	0.02	13.3	75.3	4.44	785	0.55	2.28	11.7	101.5	740
I383409		7.51	20.6	0.23	1.1	0.072	0.02	11.4	66.7	4.43	741	0.48	2.18	13.2	90.8	770
I383410		8.04	18.95	0.24	1.1	0.071	0.02	12.0	67.8	4.74	873	0.65	3.25	13.8	121.5	800
I383411		7.32	19.65	0.24	1.0	0.079	0.02	15.4	47.2	3.69	924	3.24	2.66	17.1	57.8	980
I383412		6.46	18.15	0.25	0.4	0.076	1.14	12.5	58.5	4.05	899	0.79	1.54	6.1	149.5	770
I383413		7.50	12.85	0.27	0.4	0.066	0.66	9.9	68.5	7.42	1340	0.88	0.62	3.9	493	560
I383414		8.18	11.10	0.10	0.2	0.049	0.01	7.4	106.0	9.00	1240	0.93	0.01	2.7	591	490
I383415		7.69	13.35	0.14	0.3	0.035	0.01	13.4	127.0	8.23	1220	0.70	0.01	2.8	357	550



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Project: Rau (Now)

CERTIFICATE OF ANALYSIS WH11158344

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383380		29.9	50.6	0.004	6.55	50.8	19.4	1	1.8	342	0.14	0.06	1.3	0.108	0.56	1.7
I383381		52.4	55.3	0.008	4.47	21.3	26.0	2	4.0	217	0.26	<0.05	1.2	0.294	1.06	7.8
I383382		1.2	2.6	<0.002	0.03	0.18	0.5	1	<0.2	47.8	<0.05	<0.05	<0.2	<0.005	0.02	0.7
I383383		19.6	38.0	<0.002	3.63	14.15	7.8	2	2.7	112.0	0.06	0.10	0.6	0.074	0.35	1.6
I383384		8.8	16.8	0.002	>10.0	11.10	0.9	2	2.2	88.4	0.08	0.23	0.5	0.021	0.23	0.5
I383385		136.0	115.0	0.003	6.51	81.7	15.8	4	19.6	248	0.14	0.23	1.6	0.169	1.02	4.2
I383386		120.0	69.0	<0.002	5.31	41.6	15.8	3	5.1	130.0	0.08	0.30	1.0	0.118	0.74	1.4
I383387		587	36.3	<0.002	4.30	274	5.0	11	1.7	149.5	0.16	6.07	2.9	0.063	0.38	1.9
I383388		9.8	56.2	0.007	2.50	25.4	8.5	2	1.6	336	0.28	0.05	5.1	0.110	0.62	3.7
I383389		16.2	71.8	0.010	3.47	32.9	11.2	4	2.0	207	0.48	0.07	7.4	0.170	0.80	6.1
I383390		34.4	57.6	0.002	5.60	39.8	16.8	2	0.8	563	0.14	<0.05	1.0	0.125	0.60	2.3
I383391		26.3	69.9	0.002	6.69	30.7	21.8	2	0.8	379	0.19	<0.05	0.9	0.179	0.71	1.8
I383392		21.5	67.3	0.002	6.74	28.8	20.8	1	0.7	335	0.19	<0.05	0.8	0.185	0.70	0.7
I383393		13.9	74.2	0.006	5.18	17.60	24.1	2	1.0	238	0.17	<0.05	1.1	0.193	0.77	2.4
I383394		1.2	1.4	<0.002	0.02	0.13	0.4	1	<0.2	45.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
I383395		10.9	66.9	0.010	2.43	12.75	34.0	2	1.3	121.5	0.11	<0.05	1.7	0.239	1.10	3.7
I383396		16.5	60.7	0.007	0.68	14.45	30.9	1	1.2	145.0	0.14	<0.05	1.7	0.264	0.86	2.6
I383397		9.8	56.5	0.013	2.10	11.05	23.7	1	1.2	257	0.08	<0.05	1.5	0.144	0.61	2.5
I383398		11.4	38.0	0.041	1.47	24.0	24.9	1	0.7	319	0.10	<0.05	1.5	0.137	0.49	9.4
I383399		6.3	7.4	0.006	>10.0	20.9	0.5	4	1.7	66.8	0.05	0.53	0.2	0.006	0.12	0.4
I383400		13.9	24.9	0.013	2.43	20.5	20.6	2	0.5	377	0.13	<0.05	1.7	0.150	0.20	7.0
I383401		10.5	25.2	0.009	2.22	8.92	26.8	1	0.5	338	0.12	<0.05	1.7	0.147	0.23	2.4
I383402		35.2	25.5	0.005	2.07	10.20	25.3	1	0.7	351	0.13	<0.05	1.6	0.173	0.24	1.6
I383403		27.9	10.8	0.004	1.97	6.49	26.4	1	0.9	242	0.19	<0.05	1.7	0.245	0.14	1.4
I383404		47.3	13.1	0.003	2.26	8.52	25.9	1	1.0	269	0.19	<0.05	1.6	0.237	0.15	1.7
I383405		24.5	24.6	0.005	2.19	9.62	25.1	1	1.3	248	0.22	<0.05	1.6	0.261	0.54	2.3
I383406		10.8	2.0	<0.002	0.32	6.15	26.6	2	0.8	194.5	0.43	<0.05	1.2	0.492	0.05	0.6
I383407		8.8	0.4	<0.002	0.11	5.28	28.3	2	0.8	214	0.54	<0.05	1.4	0.620	0.02	0.4
I383408		7.6	0.7	<0.002	0.06	4.07	27.7	2	0.9	148.5	0.50	<0.05	1.8	0.605	0.02	0.9
I383409		15.8	0.4	0.002	0.08	5.13	30.5	2	0.8	198.5	0.56	<0.05	1.6	0.661	0.02	0.7
I383410		4.8	0.5	0.004	0.12	4.58	29.9	2	0.8	180.5	0.56	<0.05	1.6	0.665	<0.02	0.9
I383411		7.1	0.7	0.009	0.39	7.38	29.1	3	1.0	249	0.70	<0.05	2.0	0.803	0.03	2.2
I383412		10.3	43.7	0.005	1.33	10.45	26.9	1	3.2	228	0.25	<0.05	1.5	0.291	0.48	1.6
I383413		18.2	31.0	0.009	2.09	15.20	20.9	1	2.0	179.5	0.17	0.06	1.3	0.225	0.34	6.3
I383414		4.1	0.4	0.014	0.08	4.11	17.2	1	0.3	85.1	0.13	<0.05	1.2	0.179	0.11	6.0
I383415		3.1	0.4	<0.002	0.02	2.36	21.5	1	0.3	80.1	0.13	<0.05	1.8	0.156	<0.02	0.9



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CERTIFICATE OF ANALYSIS WH11158344

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		V	W	Y	Zn	Zr	As
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.001
I383380		113	0.7	11.6	223	17.9	
I383381		167	0.9	9.1	631	33.0	
I383382		4	0.1	0.9	19	0.5	
I383383		43	1.1	3.2	69	9.5	
I383384		9	63.1	7.4	60	6.1	2.72
I383385		126	3.4	10.4	315	14.6	
I383386		92	2.1	6.5	314	11.0	
I383387		48	0.7	8.3	156	27.1	
I383388		96	0.8	17.9	519	52.1	
I383389		169	0.9	14.6	154	74.6	
I383390		98	0.5	12.4	145	30.1	
I383391		123	0.6	12.0	127	15.8	
I383392		116	0.5	10.3	95	17.6	
I383393		140	0.7	10.5	195	29.1	
I383394		3	0.1	0.8	18	0.8	
I383395		237	0.8	6.1	174	44.7	
I383396		219	0.6	6.2	73	49.7	
I383397		138	0.4	6.9	255	27.2	
I383398		137	0.2	9.5	300	26.2	
I383399		4	287	5.3	14	3.7	5.99
I383400		143	0.2	10.0	77	34.7	
I383401		144	0.2	8.2	250	31.4	
I383402		136	0.4	8.6	94	24.1	
I383403		140	0.6	6.3	101	28.0	
I383404		139	0.6	6.7	116	27.3	
I383405		142	0.8	7.1	90	19.8	
I383406		166	0.6	14.3	212	12.7	
I383407		173	0.3	17.3	94	22.5	
I383408		167	0.9	19.2	92	34.3	
I383409		184	0.4	18.9	94	30.8	
I383410		187	0.4	18.7	109	30.5	
I383411		196	0.5	23.4	110	25.6	
I383412		151	0.8	7.3	204	13.6	
I383413		116	0.6	5.6	279	14.3	
I383414		106	0.1	4.4	193	10.5	
I383415		127	0.1	4.2	189	12.9	



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CERTIFICATE OF ANALYSIS WH11158344

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11164056

Project: Rau - PUMA

P.O. No.: Batch 27 - Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164056

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383488		10.29	<0.01	0.37	0.03	9	40	0.17	0.20	20.8	2.24	0.52	0.8	<1	<0.05	3.9
I383489		9.69	0.02	1.68	0.09	9	870	0.12	0.01	22.0	6.92	4.14	1.5	<1	0.14	3.6
I383490		9.49	<0.01	0.36	0.07	9	220	0.07	0.03	21.2	2.15	2.63	1.2	<1	0.05	1.8
I383491		11.83	0.01	0.43	0.13	6	120	0.10	0.03	21.5	1.88	4.24	1.2	3	0.07	2.2
I383492		6.88	0.02	0.50	0.05	<5	110	0.18	0.04	22.7	1.91	2.05	1.2	<1	<0.05	3.1
I383493		5.91	<0.01	2.58	0.11	10	710	0.11	0.26	22.0	13.10	4.19	1.4	<1	0.17	12.8
I383494		11.23	<0.01	0.77	0.04	5	120	0.14	0.02	22.4	2.73	1.59	1.3	<1	<0.05	7.2
I383495		6.16	<0.01	0.22	0.04	<5	120	0.10	<0.01	23.2	1.64	1.57	1.0	<1	<0.05	2.0
I383496		6.78	0.10	0.46	0.04	<5	80	0.12	0.13	22.4	1.01	1.41	1.0	<1	<0.05	2.2
I383497		0.22	1.86	0.39	0.26	>10000	30	0.13	282	13.70	0.27	18.60	2.6	6	1.28	26.5
I383498		9.32	<0.01	2.51	0.09	19	150	0.14	0.85	22.1	7.11	2.43	1.2	<1	0.07	13.3
I383499		7.06	0.01	0.74	0.03	<5	50	0.13	0.09	21.7	1.65	1.09	1.0	<1	<0.05	2.4
I383500		2.92	0.17	5.95	0.12	18	140	0.19	0.12	23.0	10.25	3.86	1.9	<1	0.07	13.2
I383501		8.00	0.11	3.61	0.08	20	320	0.14	0.46	23.5	9.20	2.51	3.4	<1	0.06	13.2
I383502		8.44	0.11	5.87	0.20	13	300	0.25	0.12	22.3	15.75	4.46	3.2	<1	0.26	21.8
I383503		4.11	0.20	4.51	0.14	<5	120	0.14	0.04	20.9	2.50	3.29	1.1	<1	0.09	4.0
I383504		0.20	1.63	0.60	5.22	78.5	90	1.28	1.11	1.08	0.12	15.30	23.1	165	26.8	472
I383505		8.89	0.57	8.58	0.87	44	860	0.47	0.20	21.4	21.3	10.65	3.4	15	0.59	50.3
I383506		9.07	0.52	9.33	1.03	45	1070	0.43	0.08	18.65	30.2	14.50	3.3	19	0.68	47.0
I383507		10.94	0.21	11.40	0.60	9	540	0.32	0.03	21.2	4.37	7.72	1.5	8	0.30	13.8
I383508		7.08	0.07	4.27	0.21	17	290	0.16	0.15	22.0	23.3	3.66	5.1	<1	0.15	14.0
I383509		3.20	0.06	4.62	0.24	17	340	0.17	0.15	21.9	29.0	3.90	5.4	<1	0.18	17.8
I383510		8.16	<0.01	0.02	0.07	<5	40	0.07	0.01	21.9	0.11	1.27	1.2	<1	0.45	1.6
I383511		7.94	0.11	5.33	0.17	24	330	0.13	0.48	22.1	15.80	2.91	3.5	<1	0.13	23.6
I383512		3.61	0.12	3.65	0.17	6	230	0.17	0.38	22.0	5.25	2.57	2.7	<1	0.09	15.2
I383513		6.80	0.03	1.66	0.17	<5	280	0.15	0.39	21.9	4.98	2.36	4.2	<1	0.11	11.2
I383514		10.88	0.02	2.34	0.17	10	230	0.13	0.77	22.5	5.84	2.47	2.3	<1	0.13	20.5
I383515		9.97	0.02	2.68	0.16	12	510	0.18	0.25	23.4	8.81	2.75	2.0	<1	0.15	32.0
I383516		6.47	0.01	1.83	0.13	14	300	0.20	0.12	23.4	4.62	2.49	1.4	<1	0.08	16.4
I383517		4.78	0.04	9.85	0.32	13	1060	0.34	0.53	28.0	18.35	5.97	2.5	4	0.44	24.5
I383518		8.00	<0.01	0.14	0.06	<5	20	<0.05	0.05	21.8	0.10	1.08	0.6	1	0.24	2.8
I383519		9.60	<0.01	1.46	0.37	23	600	0.36	0.94	22.3	5.08	5.31	1.1	3	0.23	11.1
I383520		9.39	0.01	1.99	0.45	6	640	0.57	0.65	23.1	7.07	6.13	2.0	5	0.24	18.4
I383521		5.71	0.01	2.28	0.56	7	720	0.62	1.10	22.5	5.43	8.83	2.2	7	0.27	16.0
I383522		11.10	<0.01	0.34	0.08	<5	160	0.11	0.20	19.95	1.31	1.73	1.5	2	0.07	3.1
I383523		9.93	<0.01	0.30	0.03	8	130	0.08	0.19	20.9	1.04	1.83	1.2	1	0.06	3.5



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164056

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383488		0.20	0.12	0.05	<0.1	0.068	0.01	<0.5	1.7	12.65	635	0.49	<0.01	0.1	<0.2	30
I383489		1.01	0.47	0.06	<0.1	0.017	0.03	2.4	4.8	10.55	4250	0.80	<0.01	0.3	1.1	1420
I383490		0.37	0.27	0.05	<0.1	0.011	0.02	1.4	6.3	12.20	1550	0.67	<0.01	0.3	<0.2	380
I383491		0.24	0.35	0.05	0.1	<0.005	0.05	2.1	4.7	12.65	520	0.88	<0.01	0.7	<0.2	630
I383492		0.19	0.17	0.06	<0.1	0.010	0.02	1.1	2.0	13.45	804	0.93	<0.01	0.2	<0.2	70
I383493		0.86	0.57	<0.05	0.1	0.078	0.04	2.1	4.2	11.30	4210	1.18	<0.01	0.5	3.8	570
I383494		0.20	0.15	0.07	<0.1	0.008	0.01	0.8	2.0	13.45	809	0.90	<0.01	0.2	<0.2	50
I383495		0.23	0.14	0.07	<0.1	0.005	0.01	0.8	1.6	13.45	847	0.36	<0.01	0.1	<0.2	70
I383496		0.18	0.13	0.08	<0.1	0.014	0.01	0.8	1.8	13.40	489	0.50	<0.01	0.2	<0.2	70
I383497		16.15	1.68	0.25	0.2	0.120	0.11	8.4	2.8	7.76	3490	5.16	<0.01	1.9	7.4	210
I383498		0.50	0.43	<0.05	<0.1	0.076	0.03	1.3	1.9	12.95	1660	1.60	<0.01	0.3	0.3	100
I383499		0.18	0.08	0.05	<0.1	0.014	0.01	0.6	1.9	13.05	650	0.70	<0.01	0.1	<0.2	30
I383500		0.80	0.59	0.05	0.1	0.043	0.05	2.2	2.0	12.55	2400	4.11	<0.01	0.5	5.4	110
I383501		0.78	0.54	<0.05	<0.1	0.076	0.03	1.4	2.7	12.10	3330	1.85	<0.01	0.3	2.5	110
I383502		0.74	0.88	0.05	0.1	0.022	0.09	2.5	2.4	12.70	3800	3.92	<0.01	0.9	8.1	340
I383503		0.27	0.50	0.05	0.1	<0.005	0.06	1.8	2.6	12.80	387	1.82	<0.01	0.5	<0.2	110
I383504		2.02	15.10	0.10	2.4	0.052	3.76	8.2	7.0	0.39	301	4.71	1.24	2.8	503	480
I383505		1.76	2.88	0.06	0.6	0.050	0.40	5.7	4.4	12.30	2430	4.22	<0.01	4.7	11.0	1390
I383506		1.90	2.68	0.07	0.7	0.040	0.46	7.4	4.7	9.73	3560	3.80	<0.01	4.1	16.0	1810
I383507		0.60	1.89	<0.05	0.4	0.014	0.28	3.7	4.3	12.75	856	2.38	<0.01	2.8	2.6	1300
I383508		1.03	1.06	0.06	0.1	0.033	0.09	2.0	2.6	11.80	4230	3.04	<0.01	1.1	11.6	310
I383509		1.33	1.22	0.06	0.2	0.034	0.11	2.1	2.6	11.30	5050	3.62	<0.01	1.3	16.1	430
I383510		0.47	0.26	0.05	<0.1	<0.005	0.03	0.6	1.2	13.45	227	0.07	<0.01	0.3	<0.2	190
I383511		1.11	0.95	0.05	0.1	0.095	0.07	1.6	2.3	12.00	3700	2.79	<0.01	0.7	11.3	180
I383512		0.45	0.81	0.06	0.1	0.054	0.08	1.4	2.2	13.25	1740	1.72	<0.01	0.8	4.5	90
I383513		0.73	0.92	<0.05	0.1	0.119	0.07	1.3	3.6	12.40	3170	3.66	<0.01	0.8	12.0	100
I383514		1.16	0.98	0.05	0.1	0.146	0.07	1.3	2.6	11.45	5010	4.33	<0.01	0.7	16.9	90
I383515		1.98	0.95	0.05	0.1	0.062	0.06	1.6	2.5	10.35	5190	2.70	<0.01	0.7	9.1	90
I383516		0.93	0.66	<0.05	0.1	0.028	0.05	1.5	2.0	12.40	2550	1.62	<0.01	0.5	0.9	50
I383517		3.76	1.61	0.10	0.2	0.283	0.14	3.8	1.7	5.49	14900	6.29	0.01	1.3	22.3	1040
I383518		0.49	0.17	0.08	<0.1	0.005	0.03	0.5	1.0	12.95	253	0.09	<0.01	0.2	1.8	170
I383519		1.55	2.00	0.10	0.2	0.259	0.17	3.3	2.7	11.00	5100	2.98	0.01	1.7	13.4	2660
I383520		1.53	2.00	0.10	0.2	0.165	0.22	3.5	3.2	10.00	5940	3.25	0.01	2.0	15.8	2520
I383521		1.03	2.37	0.08	0.3	0.074	0.27	5.5	4.6	10.75	3770	2.65	0.02	2.3	17.6	7250
I383522		0.36	0.43	<0.05	<0.1	0.123	0.03	1.0	2.2	12.05	1660	1.78	0.01	0.4	<0.2	120
I383523		0.35	0.32	0.08	<0.1	0.103	0.01	1.0	2.5	12.45	1460	1.65	0.01	0.2	<0.2	50



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164056

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383488		114.5	0.2	<0.002	<0.01	3.53	0.1	3	0.3	65.0	<0.05	<0.05	<0.2	<0.005	0.07	1.8
I383489		809	1.0	<0.002	0.02	5.50	0.5	3	0.2	59.4	<0.05	<0.05	<0.2	0.006	0.38	13.4
I383490		174.0	0.7	<0.002	0.01	1.23	0.3	3	<0.2	60.9	<0.05	<0.05	<0.2	0.005	0.21	4.6
I383491		148.5	1.6	<0.002	0.01	1.38	0.5	3	0.2	67.6	<0.05	<0.05	0.3	0.014	0.08	7.7
I383492		121.5	0.6	<0.002	0.01	1.31	0.3	3	0.2	67.4	<0.05	<0.05	<0.2	<0.005	0.06	4.2
I383493		1490	1.4	<0.002	0.01	9.06	0.6	3	0.8	64.1	<0.05	<0.05	0.2	0.010	0.23	7.4
I383494		63.2	0.5	<0.002	0.01	4.17	0.3	2	<0.2	70.5	<0.05	<0.05	<0.2	<0.005	0.07	4.2
I383495		102.5	0.5	<0.002	0.01	1.43	0.4	3	<0.2	67.3	<0.05	<0.05	<0.2	<0.005	0.06	3.1
I383496		71.6	0.4	<0.002	0.01	0.90	0.3	3	0.2	69.1	<0.05	<0.05	<0.2	<0.005	0.02	2.9
I383497		8.8	14.8	0.003	>10.0	13.05	0.8	3	2.7	94.1	0.09	0.26	0.6	0.025	0.23	0.5
I383498		311	1.4	<0.002	0.02	6.80	0.5	3	1.6	66.3	<0.05	<0.05	<0.2	0.005	0.13	4.2
I383499		163.5	0.2	<0.002	<0.01	1.02	0.1	3	0.3	59.2	<0.05	<0.05	<0.2	<0.005	0.06	1.9
I383500		1830	1.8	<0.002	0.01	8.36	0.6	3	0.6	64.0	<0.05	<0.05	0.2	0.008	0.20	4.0
I383501		1355	1.0	<0.002	0.01	4.87	0.7	3	0.6	60.3	<0.05	<0.05	<0.2	0.005	0.58	4.6
I383502		2120	3.1	<0.002	0.01	4.98	1.0	3	0.4	72.1	0.05	<0.05	0.3	0.016	0.68	4.3
I383503		178.5	2.1	0.002	0.01	0.84	0.8	3	<0.2	69.4	<0.05	<0.05	0.2	0.010	0.06	3.2
I383504		175.5	1000	<0.002	0.32	2.73	3.4	2	3.5	51.2	2.46	0.14	2.0	0.087	7.88	0.7
I383505		2290	13.4	<0.002	0.02	8.26	2.3	4	1.2	73.1	0.27	<0.05	1.1	0.099	0.37	8.8
I383506		3510	14.5	<0.002	0.02	8.73	3.2	4	1.0	61.6	0.24	<0.05	1.1	0.102	0.57	10.8
I383507		1030	8.6	0.003	0.02	3.77	1.5	3	0.4	77.0	0.18	<0.05	0.9	0.058	0.18	13.3
I383508		3540	3.0	<0.002	0.01	5.32	0.8	3	0.4	68.7	0.06	<0.05	0.3	0.022	0.37	3.3
I383509		4450	3.4	<0.002	0.01	6.96	0.8	4	0.5	65.7	0.07	<0.05	0.3	0.026	0.42	3.9
I383510		12.4	2.1	<0.002	0.01	0.06	0.2	3	<0.2	47.6	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
I383511		1545	2.5	<0.002	0.01	9.75	0.6	3	1.2	70.1	<0.05	<0.05	0.2	0.015	0.48	2.2
I383512		609	2.5	<0.002	0.01	5.38	0.6	2	0.3	78.5	<0.05	<0.05	0.2	0.015	0.88	2.5
I383513		606	2.5	<0.002	0.01	5.30	0.6	2	0.3	73.9	<0.05	<0.05	0.2	0.015	0.72	2.6
I383514		2330	2.6	<0.002	0.01	10.75	0.6	2	0.6	73.9	<0.05	<0.05	0.2	0.014	0.65	2.5
I383515		1990	2.3	<0.002	0.01	5.61	0.7	3	0.4	64.7	<0.05	<0.05	0.2	0.013	0.66	2.2
I383516		402	1.8	<0.002	0.01	3.98	0.6	3	0.2	75.0	<0.05	<0.05	<0.2	0.010	0.35	2.6
I383517		1995	6.4	<0.002	0.01	6.77	1.0	5	1.0	58.3	0.08	<0.05	0.5	0.028	2.08	12.0
I383518		7.7	1.5	<0.002	0.01	0.09	0.2	1	0.2	45.0	<0.05	<0.05	<0.2	<0.005	0.04	0.4
I383519		468	7.3	<0.002	0.01	3.33	1.0	1	3.9	75.0	0.10	<0.05	0.5	0.033	0.38	19.3
I383520		674	8.2	0.003	0.01	6.58	1.3	1	0.9	78.4	0.12	<0.05	0.7	0.039	1.06	17.7
I383521		693	10.7	<0.002	0.01	3.74	1.6	2	1.3	86.1	0.14	<0.05	0.9	0.046	1.16	53.4
I383522		91.0	1.4	<0.002	<0.01	0.60	0.4	1	0.3	63.4	<0.05	<0.05	<0.2	0.006	0.22	3.5
I383523		113.0	0.5	<0.002	<0.01	1.35	0.3	1	0.2	59.9	<0.05	<0.05	<0.2	<0.005	0.07	4.5



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CERTIFICATE OF ANALYSIS WH11164056

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		V	W	Y	Zn	Zr	As
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.001
I383488		10	0.5	0.5	405	0.5	
I383489		34	0.4	3.5	2330	1.9	
I383490		13	0.2	1.6	747	1.4	
I383491		29	0.4	2.0	462	3.9	
I383492		19	0.2	1.0	641	0.8	
I383493		24	0.5	2.2	2770	2.9	
I383494		14	0.5	0.8	655	0.9	
I383495		20	0.1	0.8	602	0.7	
I383496		18	0.2	0.7	489	0.9	
I383497		9	63.3	7.0	66	6.1	2.67
I383498		55	0.4	1.1	1190	1.4	
I383499		11	0.3	0.5	439	0.5	
I383500		34	0.8	1.6	1930	2.0	
I383501		41	0.3	1.3	1980	1.3	
I383502		45	1.5	2.1	1900	4.7	
I383503		35	0.4	1.2	371	2.3	
I383504		22	8.6	3.5	150	113.0	
I383505		99	6.2	4.4	2420	22.1	
I383506		88	2.5	5.4	2870	22.1	
I383507		111	1.5	3.3	777	13.7	
I383508		38	0.6	1.6	2580	4.4	
I383509		42	0.8	1.8	3190	4.9	
I383510		3	0.2	0.8	26	<0.5	
I383511		33	0.5	1.3	2450	3.0	
I383512		40	0.2	1.1	995	3.3	
I383513		43	0.3	1.2	1630	2.9	
I383514		20	0.4	1.1	2350	3.1	
I383515		40	0.4	1.4	2850	2.4	
I383516		34	0.3	1.3	1280	1.9	
I383517		68	1.2	4.3	5340	6.3	
I383518		3	0.1	0.7	32	<0.5	
I383519		87	0.9	3.9	1580	8.9	
I383520		54	1.0	4.0	1540	9.0	
I383521		110	1.0	7.4	1540	12.1	
I383522		26	0.3	0.9	507	1.4	
I383523		31	0.3	0.9	367	0.8	



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CERTIFICATE OF ANALYSIS WH11164056

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11164057

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P.O. No.: Batch 26 - Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 22Y	Split Sample - Boyd Rotary Splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11164057

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA26 Au ppm 0.01	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
I383452		10.39	0.02	1.07	0.13	7	110	0.12	0.04	19.50	6.72	3.42	0.7	5	0.06	4.2
I383453		10.44	0.02	1.80	0.13	16	610	0.19	0.23	21.5	4.66	3.20	0.8	3	0.07	3.6
I383454		11.22	0.01	1.43	0.05	10	1060	0.12	0.01	22.5	4.29	2.50	0.5	1	<0.05	2.9
I383455		10.02	0.08	1.60	0.17	17	590	0.16	0.04	22.4	2.64	6.32	0.8	5	0.08	2.9
I383456		10.79	<0.01	0.59	0.04	6	220	0.08	0.03	22.3	1.05	1.25	0.4	1	<0.05	1.3
I383457		11.30	0.01	0.54	0.04	5	160	0.10	0.04	20.8	1.24	1.35	0.4	1	<0.05	1.5
I383458		9.23	0.01	1.66	0.03	13	490	0.15	0.04	23.3	3.30	1.66	0.6	<1	<0.05	2.6
I383459		10.70	0.01	1.87	0.03	18	560	0.14	0.04	25.6	4.50	3.02	0.6	<1	<0.05	3.0
I383460		10.23	0.02	1.61	0.02	18	460	0.08	0.02	22.8	4.93	1.70	0.6	<1	<0.05	3.8
I383461		9.74	0.14	4.60	0.68	52	560	0.28	4.11	22.0	20.1	10.80	6.1	9	0.44	53.0
I383462		10.84	0.04	2.09	0.10	10	>10000	0.17	0.42	24.6	7.47	5.22	1.1	1	0.15	7.5
I383463		11.28	0.03	1.28	0.06	<5	3610	0.13	0.13	20.1	10.90	2.12	1.4	1	0.10	6.5
I383464		5.05	0.01	0.60	0.15	<5	1730	0.15	0.26	23.6	2.69	2.34	1.2	1	0.19	1.9
I383465		11.17	0.01	0.77	0.14	8	260	0.14	0.46	20.7	2.19	1.59	0.5	1	0.14	2.6
I383466		11.04	<0.01	0.51	0.15	<5	120	0.11	0.34	20.0	1.60	1.81	0.5	2	0.13	3.0
I383467		11.21	0.03	0.74	0.17	9	150	0.21	1.01	20.4	1.39	1.96	0.7	3	0.09	2.5
I383468		11.07	0.01	0.84	0.47	<5	360	0.30	1.29	19.95	2.20	3.87	1.0	7	0.16	3.5
I383469		10.88	0.01	0.27	0.17	<5	110	0.23	0.62	20.4	0.64	1.96	1.1	4	0.08	1.7
I383470		11.13	0.06	1.17	0.36	17	150	0.22	6.73	20.3	1.23	4.00	2.1	7	0.10	6.0
I383471		10.98	0.02	0.49	0.16	8	90	0.19	1.13	20.1	0.87	3.35	0.8	2	0.07	2.7
I383472		10.63	0.03	0.61	0.23	8	130	0.24	1.23	19.85	0.92	3.22	0.8	4	0.09	3.4
I383473		10.96	0.01	0.32	0.17	10	100	0.21	1.58	19.10	0.44	2.45	1.0	2	0.08	2.9
I383474		5.19	0.01	0.31	0.17	9	100	0.27	2.00	19.40	0.43	2.45	1.2	2	0.09	3.9
I383475		8.29	<0.01	0.07	0.05	<5	30	<0.05	0.04	20.6	0.06	1.08	0.7	1	0.10	4.7
I383476		4.19	0.05	1.12	1.20	36	610	0.94	2.20	11.75	0.45	10.45	5.4	24	0.34	12.5
I383477		5.76	0.01	0.13	0.08	<5	70	0.13	0.40	18.25	0.19	1.59	0.3	4	<0.05	2.1
I383478		10.12	0.02	0.19	0.07	10	80	0.13	0.41	19.15	0.72	3.13	0.5	3	0.10	2.2
I383479		10.37	0.53	0.55	0.05	26	120	0.18	32.5	17.20	1.12	6.06	2.6	4	0.07	2.2
I383480		2.68	1.55	3.89	0.03	342	260	<0.05	12.80	29.2	4.37	32.6	4.0	2	<0.05	4.3
I383481		7.95	<0.01	0.11	0.05	<5	30	<0.05	0.09	20.0	0.08	1.21	0.5	1	0.19	1.8
I383482		7.93	0.01	0.41	0.04	7	110	0.21	0.88	20.1	1.32	1.45	0.9	1	0.06	2.0
I383483		0.20	0.37	6.89	5.02	0.5	80	1.13	1.14	1.34	0.03	18.85	8.0	30	19.50	12.8
I383484		11.47	0.02	0.59	0.04	22	50	0.13	0.66	18.70	1.52	1.68	0.3	2	0.17	2.1
I383485		10.20	<0.01	0.13	0.03	<5	30	0.16	0.17	19.55	0.45	0.57	0.4	2	<0.05	1.7
I383486		11.71	<0.01	0.18	0.02	<5	40	0.15	0.15	20.5	1.03	0.41	0.3	1	<0.05	1.9
I383487		0.19	0.42	1.70	0.13	4870	60	0.06	80.0	16.15	2.42	14.65	1.3	6	0.32	18.0



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CERTIFICATE OF ANALYSIS WH11164057

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383452		0.43	0.41	0.05	0.1	0.005	0.05	1.9	1.9	10.80	1140	0.51	0.01	0.6	3.7	890
I383453		0.59	0.49	0.07	0.1	0.017	0.05	1.9	1.6	10.65	2090	0.63	0.01	0.5	5.3	360
I383454		0.70	0.27	0.06	<0.1	0.008	0.02	1.6	0.8	9.80	3210	0.61	0.01	0.2	3.8	170
I383455		0.67	0.56	0.06	0.2	0.017	0.07	3.3	1.3	8.92	2690	0.73	0.01	1.0	3.9	1800
I383456		0.26	0.17	0.08	<0.1	0.006	0.01	0.8	0.7	12.60	1150	0.31	0.01	0.1	2.9	100
I383457		0.25	0.16	0.09	<0.1	<0.005	0.01	0.8	1.2	12.20	1120	0.35	0.01	0.2	2.2	110
I383458		0.61	0.18	0.10	<0.1	0.006	0.01	1.1	0.7	10.20	2780	0.58	0.01	0.1	4.3	90
I383459		0.56	0.18	0.07	<0.1	0.011	0.01	2.1	0.6	8.75	2760	0.47	0.01	0.1	5.8	120
I383460		0.67	0.22	0.08	<0.1	0.015	<0.01	1.1	0.6	11.20	3000	0.87	0.01	0.1	5.4	80
I383461		1.66	1.60	0.06	0.4	0.060	0.31	6.2	2.0	9.38	2720	1.46	0.01	2.8	24.7	700
I383462		1.05	0.51	0.08	0.1	0.076	0.03	3.6	1.5	9.17	4560	1.13	0.05	0.4	6.6	120
I383463		2.86	0.65	0.05	<0.1	0.125	0.02	1.6	0.8	3.83	14350	3.20	0.01	0.2	14.4	30
I383464		3.07	1.11	<0.05	0.1	0.351	0.06	1.5	1.5	8.56	15750	2.94	0.01	0.6	10.8	90
I383465		0.55	0.81	<0.05	0.1	0.099	0.07	1.0	1.1	11.60	2410	1.47	0.01	0.6	4.0	60
I383466		0.30	0.71	0.05	0.1	0.081	0.07	1.1	1.5	12.10	1020	1.01	0.01	0.7	3.7	200
I383467		0.49	0.77	0.05	0.1	0.025	0.05	1.1	3.2	12.35	867	1.47	0.02	0.9	3.4	40
I383468		0.59	1.70	0.09	0.3	0.024	0.21	2.2	3.9	12.10	1020	0.84	0.02	2.5	4.7	110
I383469		0.30	0.69	0.10	0.1	0.006	0.06	1.1	2.9	12.70	406	1.00	0.02	1.0	3.4	50
I383470		1.35	1.46	0.11	0.2	<0.005	0.12	2.1	3.6	12.00	345	4.89	0.02	1.9	8.5	120
I383471		0.50	0.52	0.06	0.1	<0.005	0.07	1.9	3.4	12.15	346	1.56	0.02	0.7	4.0	70
I383472		0.62	0.72	0.11	0.1	0.007	0.10	1.7	3.2	11.65	377	1.91	0.02	1.1	4.0	80
I383473		0.57	0.70	0.12	0.1	<0.005	0.07	1.4	3.4	11.55	339	2.73	0.02	0.5	4.9	130
I383474		0.65	0.63	0.10	0.1	<0.005	0.07	1.4	3.4	11.80	340	2.59	0.02	0.5	5.2	110
I383475		0.46	0.13	0.12	<0.1	<0.005	0.02	0.5	0.9	13.05	203	0.17	<0.01	0.1	2.3	170
I383476		1.39	4.05	0.12	0.8	<0.005	0.54	5.3	3.4	7.57	213	35.9	0.02	3.9	30.5	1730
I383477		0.15	0.27	0.13	<0.1	<0.005	0.03	1.0	2.9	11.50	165	0.78	0.01	0.3	2.2	60
I383478		0.89	0.38	0.10	<0.1	0.026	0.02	1.5	2.6	11.10	786	0.97	0.01	0.1	3.2	60
I383479		0.71	0.27	0.12	<0.1	0.011	0.02	3.6	2.3	8.68	874	2.44	0.01	0.1	10.4	90
I383480		5.97	0.34	0.15	<0.1	0.168	0.01	20.2	0.5	1.27	3590	2.67	<0.01	<0.1	30.2	230
I383481		0.44	0.17	0.11	<0.1	<0.005	0.02	0.6	0.9	12.70	209	0.07	<0.01	0.2	1.3	160
I383482		0.38	0.18	0.12	<0.1	0.094	0.01	1.0	3.0	12.15	1050	1.36	0.01	0.1	4.0	40
I383483		2.08	15.65	0.16	1.7	0.029	3.33	10.9	9.1	0.63	279	9.87	1.24	2.1	8.0	430
I383484		0.31	0.28	0.12	<0.1	0.073	0.01	1.1	3.0	11.70	693	0.72	0.01	0.1	1.8	40
I383485		0.12	0.07	0.13	<0.1	0.026	0.01	<0.5	1.8	12.40	406	0.84	0.01	0.1	1.2	30
I383486		0.10	0.06	0.11	<0.1	0.024	<0.01	<0.5	1.5	13.10	569	0.77	0.01	0.1	1.4	30
I383487		10.85	1.12	0.13	0.1	0.123	0.05	6.2	2.2	8.92	4360	2.36	0.01	1.1	6.7	140



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164057

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
I383452		720	1.6	<0.002	0.01	3.77	0.4	<1	0.2	59.3	<0.05	<0.05	0.3	0.013	10.8
I383453		398	1.7	0.003	0.01	3.09	0.4	<1	0.2	51.5	<0.05	<0.05	0.2	0.012	6.4
I383454		148.5	0.7	<0.002	0.02	1.79	0.2	<1	<0.2	58.3	<0.05	<0.05	<0.2	0.005	5.5
I383455		241	2.2	<0.002	0.01	2.37	0.5	<1	<0.2	55.9	0.06	<0.05	0.4	0.022	18.4
I383456		105.5	0.5	<0.002	<0.01	1.03	0.1	<1	<0.2	61.5	<0.05	<0.05	<0.2	<0.005	3.0
I383457		120.5	0.5	<0.002	<0.01	0.88	0.2	<1	<0.2	65.2	<0.05	<0.05	<0.2	<0.005	3.9
I383458		421	0.3	<0.002	0.01	2.35	0.2	<1	<0.2	61.8	<0.05	<0.05	<0.2	<0.005	3.8
I383459		247	0.6	<0.002	0.01	2.62	0.2	<1	<0.2	52.3	<0.05	<0.05	<0.2	<0.005	4.9
I383460		184.5	0.3	<0.002	<0.01	2.87	0.2	<1	<0.2	59.4	<0.05	<0.05	<0.2	<0.005	4.2
I383461		1210	8.3	<0.002	0.01	12.95	3.0	<1	0.8	53.4	0.15	<0.05	0.6	0.078	7.9
I383462		568	1.4	<0.002	0.30	5.36	0.5	<1	0.4	75.0	<0.05	<0.05	0.2	0.009	7.8
I383463		654	0.8	<0.002	0.09	6.72	0.3	<1	0.4	1430	<0.05	<0.05	<0.2	<0.005	3.7
I383464		194.5	3.3	<0.002	0.01	1.06	0.4	<1	0.6	85.2	<0.05	<0.05	0.2	0.012	3.5
I383465		197.5	3.8	<0.002	<0.01	0.68	0.4	<1	0.4	60.6	<0.05	<0.05	0.2	0.013	2.4
I383466		138.0	3.6	0.003	<0.01	1.00	0.4	1	0.3	65.6	<0.05	<0.05	0.2	0.013	3.7
I383467		207	2.2	0.002	0.01	1.10	0.6	<1	0.6	71.6	0.05	<0.05	0.2	0.017	3.7
I383468		294	7.8	<0.002	0.01	1.09	1.1	<1	1.0	68.4	0.15	<0.05	0.5	0.050	3.8
I383469		39.8	2.3	<0.002	0.01	0.61	0.6	<1	0.4	70.1	0.05	<0.05	0.2	0.021	4.3
I383470		109.0	4.7	0.005	0.01	1.08	1.2	1	0.7	73.9	0.11	<0.05	0.4	0.038	5.6
I383471		45.0	2.4	0.002	0.01	0.53	0.7	<1	0.3	68.3	<0.05	<0.05	0.2	0.014	3.6
I383472		76.5	3.6	<0.002	<0.01	0.65	1.0	<1	0.3	71.3	0.07	<0.05	0.3	0.022	3.9
I383473		25.4	2.6	<0.002	0.01	0.70	0.6	<1	0.3	67.2	<0.05	<0.05	0.2	0.010	4.5
I383474		27.1	2.5	<0.002	0.01	0.67	0.6	<1	0.5	67.0	<0.05	<0.05	0.2	0.011	4.6
I383475		3.0	1.0	<0.002	0.01	0.06	0.2	<1	<0.2	41.9	<0.05	<0.05	<0.2	0.013	0.6
I383476		21.8	19.2	0.011	0.01	2.31	1.7	<1	1.2	54.7	0.25	<0.05	2.2	0.096	17.0
I383477		11.2	1.0	<0.002	<0.01	0.28	0.2	<1	0.2	62.9	<0.05	<0.05	<0.2	0.018	3.2
I383478		31.1	1.0	<0.002	<0.01	0.57	0.4	<1	0.2	86.3	<0.05	<0.05	<0.2	0.012	2.6
I383479		73.8	0.7	<0.002	0.01	1.26	0.3	<1	0.2	66.8	<0.05	<0.05	<0.2	0.013	1.8
I383480		117.5	0.2	<0.002	<0.01	2.44	2.8	1	0.3	18.7	0.06	0.13	0.4	0.012	1.6
I383481		2.3	1.4	<0.002	<0.01	0.07	0.2	<1	0.2	42.6	<0.05	<0.05	<0.2	0.012	<0.02
I383482		76.6	0.5	<0.002	<0.01	0.77	0.1	<1	0.5	65.2	<0.05	<0.05	<0.2	0.012	1.0
I383483		13.7	750	<0.002	0.01	0.80	6.9	<1	1.2	57.4	0.19	<0.05	1.2	0.240	0.7
I383484		151.0	1.2	<0.002	<0.01	0.79	0.1	1	0.7	68.6	<0.05	<0.05	<0.2	0.012	1.6
I383485		29.9	0.3	<0.002	<0.01	0.46	0.1	<1	0.3	64.0	<0.05	<0.05	<0.2	0.012	3.7
I383486		82.4	0.2	<0.002	<0.01	0.60	<0.1	<1	0.4	67.6	<0.05	<0.05	<0.2	0.011	2.0
I383487		113.0	5.0	<0.002	8.68	3.68	0.5	1	3.8	118.0	0.06	0.15	0.8	0.020	0.4



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Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
I383452		28	0.8	2.1	1260	3.1
I383453		21	1.5	2.0	1480	3.0
I383454		13	0.2	1.7	1460	1.1
I383455		28	2.6	3.7	1480	6.1
I383456		9	1.7	0.8	586	0.9
I383457		17	0.4	0.9	515	1.2
I383458		9	2.6	1.3	1360	0.5
I383459		7	4.8	1.7	1590	0.6
I383460		8	0.9	1.1	1670	0.5
I383461		41	6.2	4.3	2580	13.9
I383462		21	0.6	3.4	2320	2.0
I383463		14	0.3	1.7	4680	1.1
I383464		34	0.3	1.7	1480	2.5
I383465		31	0.2	0.9	636	2.6
I383466		31	0.1	1.0	430	2.8
I383467		13	1.0	1.0	227	3.4
I383468		17	1.5	1.5	369	8.9
I383469		16	0.8	1.0	106	3.6
I383470		19	1.9	1.9	203	8.5
I383471		17	0.8	1.6	148	3.5
I383472		16	1.1	1.4	160	4.3
I383473		25	1.3	1.3	69	3.5
I383474		24	1.3	1.3	71	3.4
I383475		<1	0.1	0.7	18	<0.5
I383476		123	3.3	4.6	78	26.8
I383477		14	0.8	0.8	60	2.0
I383478		13	1.6	2.7	114	1.0
I383479		8	18.8	1.8	293	0.9
I383480		8	216	21.0	512	<0.5
I383481		<1	0.5	0.8	20	<0.5
I383482		1	6.8	0.8	235	0.9
I383483		50	0.4	11.4	27	58.1
I383484		3	1.3	1.0	186	1.0
I383485		5	0.3	0.5	99	0.8
I383486		4	0.2	0.4	211	<0.5
I383487		5	134.5	6.8	446	3.7



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CERTIFICATE OF ANALYSIS WH11164057

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11164058

Project: Rau - PUMA

P.O. No.: Batch 25 - Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164058

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA26 Au ppm 0.01	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
I383416		10.20	0.03	0.44	0.10	12	50	0.17	1.31	19.85	0.73	2.03	0.6	3	0.09	2.4
I383417		11.47	0.02	0.91	0.18	6	520	0.27	0.79	21.5	3.46	2.11	0.9	4	0.11	4.1
I383418		10.31	0.01	0.37	0.16	5	120	0.20	0.81	20.7	1.16	2.30	0.7	4	0.08	2.6
I383419		5.63	<0.01	0.45	0.49	8	300	0.35	1.14	20.3	1.08	4.80	1.0	12	0.17	3.5
I383420		3.17	<0.01	0.32	0.48	5	330	0.21	1.02	18.40	0.74	4.78	1.1	13	0.15	3.6
I383421		2.34	0.02	0.49	0.20	12	100	0.17	2.83	19.00	1.02	4.17	1.9	8	0.07	4.0
I383422		11.25	<0.01	0.18	0.32	<5	180	0.24	0.58	20.5	0.37	4.10	0.8	8	0.09	2.6
I383423		11.03	<0.01	0.14	0.11	<5	90	0.17	0.24	19.05	0.48	2.74	0.7	3	0.06	2.0
I383424		11.22	<0.01	0.32	0.40	7	340	0.36	0.10	19.30	0.73	3.92	1.3	13	0.13	7.7
I383425		5.69	<0.01	0.08	0.07	5	60	0.19	0.03	19.30	0.19	1.84	0.5	3	<0.05	2.2
I383426		5.01	<0.01	0.11	0.17	7	130	0.24	0.04	17.25	0.35	2.91	1.5	6	0.07	3.7
I383427		10.41	<0.01	5.76	0.18	<5	160	0.35	0.42	20.2	0.36	2.72	1.0	6	0.08	7.5
I383428		4.78	0.01	0.27	0.28	13	260	0.29	1.30	12.40	0.38	4.60	1.6	8	0.14	6.5
I383429		9.04	0.15	0.43	0.06	21	70	0.13	15.95	12.95	0.21	1.89	0.5	7	0.08	2.1
I383430		10.88	0.01	0.27	0.04	5	60	0.22	0.67	19.75	0.43	1.12	0.4	2	<0.05	2.2
I383431		10.85	0.01	0.70	0.05	9	60	0.15	0.64	15.75	0.85	1.35	0.5	3	0.13	2.3
I383432		1.80	0.18	13.80	1.83	2450	660	0.86	46.8	12.75	27.0	34.7	15.1	60	2.32	237
I383433		7.98	<0.01	0.19	0.05	6	30	0.12	0.13	19.65	0.11	1.10	0.6	1	0.15	2.8
I383434		0.20	2.92	1.70	6.06	1795	340	1.23	2.89	1.97	1.09	33.4	47.7	592	4.44	994
I383435		3.64	0.02	2.59	0.06	53	70	0.15	1.73	20.6	2.56	1.68	0.4	3	0.05	3.2
I383436		8.47	<0.01	0.59	0.05	7	60	0.22	0.41	20.3	1.90	0.92	0.3	2	<0.05	2.9
I383437		8.08	0.01	1.30	0.04	<5	50	0.17	0.03	16.45	3.42	0.69	0.4	2	<0.05	3.6
I383438		9.76	<0.01	0.41	0.03	<5	30	0.10	0.02	13.00	1.00	0.38	0.2	1	<0.05	1.9
I383439		8.94	0.02	1.24	0.04	6	30	0.15	0.05	19.70	6.00	0.73	0.4	<1	<0.05	3.1
I383440		5.46	<0.01	0.66	0.02	<5	20	0.08	0.03	16.10	1.17	0.39	0.2	<1	<0.05	1.6
I383441		4.61	<0.01	0.68	0.02	5	20	0.11	0.03	17.55	0.93	0.29	0.2	<1	<0.05	7.8
I383442		11.08	<0.01	0.84	0.02	<5	60	0.16	0.07	19.15	0.83	0.52	0.3	<1	<0.05	1.3
I383443		9.58	<0.01	0.34	0.02	<5	70	0.10	0.10	16.25	0.54	0.33	0.2	<1	<0.05	1.1
I383444		5.47	0.09	3.12	0.40	58	1030	0.33	22.9	20.0	4.85	12.70	3.9	10	0.26	12.5
I383445		7.92	<0.01	0.03	0.05	<5	20	<0.05	0.11	20.9	0.07	0.98	0.7	<1	0.11	2.0
I383446		7.34	0.04	2.02	0.13	12	120	0.21	1.49	21.3	2.52	2.56	1.6	2	0.06	3.4
I383447		5.41	0.04	1.42	0.06	<5	50	0.31	0.03	21.5	2.68	1.41	0.5	1	<0.05	2.7
I383448		5.70	<0.01	0.42	0.10	<5	110	0.15	0.08	20.4	0.47	3.13	0.4	4	0.05	1.7
I383449		0.23	0.51	1.65	0.14	5820	50	0.09	76.8	15.80	2.47	14.70	1.2	4	0.34	16.6
I383450		7.20	0.01	0.94	0.08	5	220	0.16	0.21	19.30	3.08	2.93	0.7	2	0.05	3.8
I383451		2.69	0.03	1.32	0.32	25	210	0.27	3.11	19.50	14.85	6.20	2.7	6	0.33	14.5



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164058

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383416		0.47	0.50	0.11	0.1	0.011	0.01	1.2	3.0	12.10	460	1.03	0.02	0.3	2.3	40
I383417		0.55	0.88	0.11	0.1	0.055	0.07	1.2	3.8	12.85	1680	1.04	0.02	0.9	3.9	90
I383418		0.35	0.56	0.12	0.1	0.006	0.07	1.3	3.9	12.95	456	0.46	0.02	0.9	2.6	60
I383419		0.49	1.52	0.12	0.3	0.012	0.22	2.7	4.4	12.75	434	0.57	0.02	2.8	4.8	90
I383420		0.39	1.64	0.13	0.3	0.013	0.21	2.6	4.7	11.60	400	1.63	0.02	2.6	5.2	100
I383421		1.01	1.00	0.12	0.2	0.009	0.06	2.2	4.6	11.85	425	1.74	0.02	1.0	5.5	60
I383422		0.23	1.02	0.15	0.2	0.006	0.13	2.2	4.1	12.95	357	0.46	0.02	1.6	4.1	90
I383423		0.22	0.38	0.14	0.1	0.005	0.04	1.4	3.3	11.90	521	0.94	0.01	0.4	3.1	70
I383424		0.52	1.01	0.13	0.2	0.005	0.18	2.0	4.2	12.15	381	1.54	0.02	2.5	6.4	130
I383425		0.12	0.19	0.12	<0.1	0.005	0.03	1.0	3.1	12.15	258	0.42	0.02	0.3	2.4	30
I383426		0.38	0.48	0.13	0.1	0.006	0.07	1.6	3.0	10.70	273	2.11	0.01	0.7	8.0	100
I383427		0.29	0.68	0.14	0.1	<0.005	0.08	1.6	3.9	12.65	329	1.86	0.02	0.8	6.4	250
I383428		0.66	1.35	0.15	0.1	0.006	0.13	2.6	3.8	7.20	257	1.94	0.01	0.7	9.4	2340
I383429		0.47	0.30	0.14	<0.1	0.013	0.02	1.1	2.5	7.19	452	0.88	0.01	0.1	3.6	90
I383430		0.18	0.16	0.12	<0.1	0.029	0.01	0.7	3.4	12.45	458	1.50	0.01	0.2	3.4	80
I383431		0.16	0.20	0.14	<0.1	0.034	0.02	0.9	2.2	9.44	320	1.26	0.01	0.2	3.4	40
I383432		20.9	7.27	0.20	0.8	0.986	0.72	19.5	6.3	0.60	2410	10.00	0.02	6.6	79.9	1800
I383433		0.49	0.19	0.17	<0.1	0.006	0.02	0.6	0.9	12.45	202	0.10	<0.01	0.2	1.6	160
I383434		8.21	16.95	0.21	6.7	0.112	1.29	16.7	25.5	2.39	733	6.49	0.79	3.1	465	360
I383435		0.64	0.40	0.13	<0.1	0.096	0.01	1.0	3.6	12.05	634	0.88	0.01	0.2	2.9	60
I383436		0.21	0.20	0.14	<0.1	0.019	0.01	0.5	2.5	12.70	588	1.53	0.01	0.2	2.8	80
I383437		0.13	0.15	0.14	<0.1	0.006	0.01	<0.5	1.8	9.99	482	0.41	0.01	0.1	2.1	50
I383438		0.08	0.11	0.17	<0.1	<0.005	0.01	<0.5	1.2	8.53	177	0.17	0.01	0.1	1.2	30
I383439		0.14	0.11	<0.05	<0.1	0.016	0.01	0.5	1.1	10.60	373	0.17	0.01	0.1	1.6	90
I383440		0.07	0.08	<0.05	<0.1	0.011	<0.01	<0.5	1.1	9.00	194	0.13	0.01	0.1	1.0	40
I383441		0.13	0.08	<0.05	<0.1	0.009	<0.01	<0.5	1.0	10.40	213	0.36	0.01	0.1	0.9	40
I383442		0.15	0.10	<0.05	<0.1	0.018	0.01	<0.5	1.5	11.80	485	0.99	0.01	0.1	1.4	50
I383443		0.11	0.08	<0.05	<0.1	0.026	0.01	<0.5	1.0	9.73	474	0.17	0.01	0.1	0.7	40
I383444		1.46	1.24	<0.05	0.2	0.033	0.18	8.4	3.0	9.59	1840	0.73	0.02	1.9	15.9	450
I383445		0.48	0.15	<0.05	<0.1	0.006	0.02	0.5	1.1	13.10	212	0.07	<0.01	0.1	1.3	190
I383446		0.36	0.37	0.06	0.1	0.015	0.06	1.5	2.7	12.15	695	0.35	0.01	0.6	5.5	140
I383447		0.20	0.19	<0.05	<0.1	0.013	0.02	0.9	2.9	12.70	482	1.05	0.01	0.4	4.7	170
I383448		0.21	0.26	<0.05	0.1	0.015	0.04	1.7	2.4	12.70	405	0.27	0.01	0.5	1.5	360
I383449		10.70	1.04	0.06	0.1	0.111	0.06	6.2	2.3	8.64	4460	2.34	0.02	1.1	6.5	150
I383450		0.49	0.30	<0.05	0.1	0.013	0.03	1.6	1.8	10.60	1540	0.48	0.01	0.4	3.7	750
I383451		0.86	0.98	<0.05	0.1	0.030	0.14	3.6	2.6	11.00	1820	0.66	0.01	1.5	13.6	480



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164058

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383416		69.1	0.7	<0.002	0.02	0.76	0.4	<1	0.3	67.6	<0.05	<0.05	<0.2	0.018	0.03	3.6
I383417		386	3.0	<0.002	0.02	1.51	0.6	1	3.8	76.3	0.05	0.05	0.2	0.029	0.13	3.6
I383418		66.9	2.6	<0.002	0.01	0.85	0.5	<1	0.4	74.2	0.05	<0.05	0.2	0.028	0.09	4.0
I383419		70.2	8.0	<0.002	0.02	0.93	1.5	<1	0.6	73.7	0.17	<0.05	0.6	0.062	0.14	4.2
I383420		38.9	8.1	<0.002	0.01	0.51	1.3	<1	0.5	77.5	0.16	<0.05	0.6	0.059	0.22	5.0
I383421		71.9	2.3	<0.002	0.02	0.78	1.1	<1	0.4	74.8	0.06	<0.05	0.3	0.030	0.08	3.9
I383422		20.2	4.7	<0.002	0.01	0.40	1.0	<1	0.5	73.2	0.10	<0.05	0.4	0.045	0.09	4.0
I383423		22.7	1.6	<0.002	0.01	0.39	0.7	<1	0.2	65.8	<0.05	<0.05	<0.2	0.019	0.09	3.4
I383424		30.3	6.1	<0.002	0.01	2.00	1.2	<1	0.5	73.9	0.14	<0.05	0.5	0.058	0.18	4.0
I383425		10.1	1.0	<0.002	0.01	0.48	0.3	<1	0.2	71.9	<0.05	<0.05	<0.2	0.017	0.12	2.9
I383426		13.7	2.5	0.002	0.01	0.82	0.5	<1	0.3	72.4	<0.05	0.05	0.2	0.026	0.17	3.4
I383427		17.4	3.1	<0.002	0.01	0.69	0.5	<1	0.4	81.1	0.05	<0.05	0.3	0.026	0.13	5.8
I383428		16.6	5.4	<0.002	0.01	1.11	0.7	<1	0.5	63.4	<0.05	<0.05	0.4	0.023	0.12	15.0
I383429		11.5	1.2	<0.002	<0.01	0.68	0.3	<1	0.3	58.7	<0.05	<0.05	<0.2	0.013	0.04	1.4
I383430		20.1	0.6	<0.002	0.01	1.12	0.1	<1	0.3	68.2	<0.05	<0.05	<0.2	0.014	0.04	2.6
I383431		47.0	0.9	<0.002	<0.01	0.67	0.2	<1	0.6	53.9	<0.05	<0.05	<0.2	0.015	0.05	2.7
I383432		4770	25.2	<0.002	0.01	48.0	6.2	1	6.0	10.8	0.45	0.52	2.0	0.169	1.85	4.1
I383433		11.3	1.1	<0.002	0.01	0.16	0.2	<1	0.3	41.4	<0.05	<0.05	<0.2	0.013	<0.02	0.6
I383434		216	75.9	0.004	1.40	179.5	21.3	1	3.4	126.0	0.37	1.68	5.4	0.233	0.87	1.7
I383435		147.5	0.7	<0.002	0.01	1.19	0.2	<1	0.8	61.5	<0.05	<0.05	<0.2	0.015	0.04	1.2
I383436		106.0	0.6	0.003	0.01	1.29	0.1	<1	0.4	57.5	<0.05	<0.05	<0.2	0.015	0.07	2.7
I383437		270	0.4	<0.002	<0.01	1.79	0.1	<1	0.3	53.5	<0.05	<0.05	<0.2	0.014	0.10	2.2
I383438		97.1	0.3	<0.002	<0.01	0.59	0.1	<1	0.3	43.8	<0.05	<0.05	<0.2	0.013	0.02	2.7
I383439		641	0.3	<0.002	<0.01	1.44	0.1	<1	0.4	45.1	<0.05	<0.05	<0.2	<0.005	0.19	2.9
I383440		215	0.1	0.002	0.01	0.56	<0.1	<1	<0.2	43.2	<0.05	<0.05	<0.2	<0.005	0.10	2.1
I383441		198.5	0.1	<0.002	<0.01	2.44	0.1	<1	<0.2	47.9	<0.05	<0.05	<0.2	<0.005	0.09	2.6
I383442		91.9	0.2	<0.002	0.01	0.74	0.1	<1	<0.2	50.1	<0.05	<0.05	<0.2	<0.005	0.04	3.5
I383443		52.6	0.1	<0.002	<0.01	0.33	0.1	1	<0.2	43.0	<0.05	<0.05	<0.2	<0.005	0.03	2.1
I383444		771	4.2	<0.002	0.02	5.51	1.7	1	0.6	52.4	0.11	<0.05	0.4	0.054	0.27	2.7
I383445		3.2	0.8	<0.002	0.02	0.05	0.2	<1	<0.2	43.7	<0.05	<0.05	<0.2	<0.005	<0.02	0.4
I383446		228	1.2	<0.002	0.01	1.23	0.7	<1	0.6	61.6	<0.05	<0.05	<0.2	0.017	0.07	3.0
I383447		109.5	0.8	0.007	0.02	1.25	0.3	<1	<0.2	67.3	<0.05	<0.05	<0.2	0.006	0.05	5.1
I383448		36.6	1.2	<0.002	0.02	0.76	0.5	1	<0.2	64.7	<0.05	<0.05	0.2	0.010	0.04	4.3
I383449		111.5	4.3	0.002	9.07	3.47	0.5	2	3.6	113.5	<0.05	0.10	0.7	0.010	0.06	0.4
I383450		214	0.8	<0.002	0.02	2.34	0.4	<1	0.2	54.8	<0.05	<0.05	0.2	0.008	0.26	7.3
I383451		1210	3.8	<0.002	0.01	9.31	1.1	1	0.5	57.9	0.09	<0.05	0.3	0.035	0.61	4.4



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 Total # Pages: 2 (A - D)
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 Finalized Date: 23- SEP- 2011
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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11164058

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
I383416		10	1.1	1.1	115	2.8
I383417		10	2.1	1.1	456	5.3
I383418		10	0.7	1.2	163	4.4
I383419		15	1.3	1.8	179	11.1
I383420		11	1.7	1.9	91	11.8
I383421		15	1.1	2.0	154	6.6
I383422		17	0.8	1.8	87	7.9
I383423		10	0.5	1.2	122	2.9
I383424		16	1.0	1.9	142	10.2
I383425		9	0.2	1.0	40	1.8
I383426		18	0.8	1.7	43	3.9
I383427		27	21.3	1.7	50	5.5
I383428		45	4.2	2.9	61	6.1
I383429		7	12.2	1.2	39	1.0
I383430		6	2.8	0.5	68	1.2
I383431		5	2.0	0.7	78	1.0
I383432		79	156.5	21.4	4770	29.9
I383433		<1	0.4	0.8	25	<0.5
I383434		140	40.3	13.8	353	273
I383435		1	1.9	1.0	262	1.4
I383436		6	0.4	0.6	289	1.6
I383437		11	0.8	0.6	631	0.9
I383438		7	0.6	0.3	165	0.6
I383439		12	2.8	0.6	612	0.6
I383440		7	1.3	0.3	221	<0.5
I383441		8	1.6	0.3	171	<0.5
I383442		16	0.5	0.5	242	0.5
I383443		6	0.1	0.3	178	<0.5
I383444		27	4.7	3.1	1290	5.5
I383445		3	0.1	0.7	21	<0.5
I383446		20	1.0	1.4	461	2.6
I383447		26	0.5	1.3	286	1.9
I383448		19	0.2	1.5	184	2.8
I383449		8	132.5	6.0	453	2.9
I383450		24	0.7	1.7	1030	2.1
I383451		25	4.0	2.7	1750	5.9



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CERTIFICATE OF ANALYSIS WH11164058

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11169076

Project: Rau - Cheetah

P.O. No.: Batch 29 - Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rau - Cheetah

CERTIFICATE OF ANALYSIS WH11169076

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383560		4.34	0.71	5.31	2.65	8270	910	0.76	245	11.25	26.4	111.5	15.3	49	3.72	48.7
I383561		5.18	0.22	4.08	0.96	680	280	0.28	13.85	25.4	5.59	14.65	6.1	20	1.20	15.4
I383562		4.13	0.39	5.43	3.35	4350	1040	0.78	233	10.25	15.80	170.5	16.8	67	4.33	48.4
I383563		9.85	0.29	2.06	0.64	560	260	0.26	17.30	20.8	3.12	27.9	3.6	12	0.74	11.5
I383564		10.82	0.13	1.89	0.54	451	240	0.27	6.63	21.8	2.91	7.42	2.5	10	0.41	6.4
I383565		4.79	1.69	4.99	1.20	2590	350	0.36	33.8	20.0	8.67	23.2	4.6	25	1.38	15.7
I383566		9.32	0.39	3.64	0.83	667	300	0.30	13.65	23.8	4.53	13.35	3.6	16	0.92	11.1
I383567		9.04	2.55	12.95	1.80	5480	1320	0.49	181.0	8.22	24.6	126.5	8.9	44	1.98	49.5
I383568		7.94	0.02	0.02	0.05	<5	20	0.05	0.14	20.7	0.08	1.22	1.3	<1	0.10	1.4
I383569		4.99	0.28	3.22	0.45	292	610	0.18	6.47	25.6	5.01	9.63	2.4	5	0.51	7.2
I383570		0.25	8.55	23.3	5.33	7.4	40	1.52	1.13	1.45	0.06	6.02	9.8	39	60.5	18.6
I383571		4.43	0.78	6.45	1.02	800	850	0.38	29.5	25.8	7.47	27.4	4.3	15	1.16	18.9
I383572		8.02	<0.01	0.03	0.06	<5	20	<0.05	0.08	20.7	0.08	1.25	1.4	<1	0.23	1.9
I383573		10.15	0.98	3.90	0.37	471	640	0.20	15.95	20.2	4.63	9.73	2.7	5	0.33	8.5
I383574		5.27	1.37	3.90	0.57	608	730	0.21	29.8	19.85	6.13	15.10	3.2	9	0.52	11.2
I383575		9.33	<0.01	0.19	0.07	29	60	0.09	0.31	21.1	0.35	1.97	1.2	<1	0.08	1.3
I383576		4.90	0.03	2.13	0.90	918	400	0.32	12.85	19.90	4.60	14.15	6.7	16	1.36	17.1
I383577		7.07	<0.01	0.38	0.11	70	80	0.10	0.94	21.4	0.70	3.21	1.3	1	0.18	2.0
I383578		3.22	0.28	17.85	2.33	3200	1770	0.68	47.6	9.16	27.6	94.3	11.6	46	3.44	86.1
I383579		7.99	0.08	12.25	0.91	409	8410	0.35	14.05	20.3	29.0	21.3	6.0	16	1.21	23.4
I383580		9.20	0.05	8.30	0.43	192	2650	0.25	4.72	26.1	37.0	10.85	4.0	6	0.51	10.3
I383581		10.22	0.02	2.99	0.56	115	530	0.21	6.31	22.2	10.30	11.85	3.8	6	0.64	11.8
I383582		10.35	0.02	1.15	0.39	66	3640	0.15	3.48	21.1	7.15	6.78	2.8	5	0.50	7.3
I383583		3.59	0.08	5.14	1.42	405	1710	0.37	31.8	21.6	41.4	40.7	10.1	27	1.63	57.2
I383584		4.46	0.10	10.20	1.76	368	3630	0.57	16.45	9.23	7.40	28.3	9.0	38	2.60	64.3
I383585		8.46	0.08	3.59	1.43	323	6370	0.61	17.40	17.40	9.73	24.7	7.2	25	1.90	31.5
I383586		9.92	0.23	5.36	4.24	968	3610	1.16	85.2	9.66	10.30	81.4	18.9	81	5.17	81.8
I383587		8.42	0.19	5.28	1.18	398	6810	0.37	23.9	20.7	12.25	27.2	6.1	22	1.31	23.0
I383588		7.02	0.31	5.71	1.59	449	3570	0.48	25.2	20.4	12.00	28.9	7.1	27	1.78	30.5
I383589		9.00	0.02	0.46	0.18	36	270	0.17	1.29	21.3	1.06	4.91	1.3	4	0.10	2.3
I383590		4.78	0.02	0.24	0.13	37	120	0.16	1.11	20.4	0.61	3.60	1.4	3	0.08	1.8
I383591		8.01	0.13	2.78	1.38	444	660	0.46	30.8	18.20	5.05	30.4	6.8	25	1.72	29.3
I383592		8.10	0.01	0.33	0.12	34	100	0.09	0.99	21.4	0.24	4.67	1.4	4	0.07	1.5
I383593		4.30	0.06	0.94	0.51	127	230	0.25	5.89	22.4	0.93	10.35	2.8	9	0.45	8.5
I383594		0.25	2.95	1.80	7.20	2150	390	1.33	3.11	2.21	1.12	38.0	49.9	673	5.29	1165
I383595		5.27	0.10	3.68	1.28	359	940	0.42	24.7	22.1	4.91	30.7	5.9	22	1.43	25.6



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Project: Rau - Cheetah

CERTIFICATE OF ANALYSIS WH11169076

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383560		17.85	7.02	0.27	0.9	0.451	1.06	71.5	10.6	1.87	3530	9.31	0.03	13.6	84.6	1620
I383561		2.37	2.59	0.09	0.4	0.131	0.40	8.0	5.1	4.78	801	2.74	0.01	5.0	23.6	410
I383562		15.95	9.43	0.28	1.3	0.479	1.33	105.5	14.3	3.28	3620	6.61	0.05	17.5	84.4	1610
I383563		2.49	2.00	0.09	0.3	0.110	0.26	17.7	5.1	9.46	887	1.53	0.02	3.6	13.7	330
I383564		1.12	2.10	0.07	0.3	0.042	0.20	4.2	4.5	8.61	402	0.64	0.02	3.0	9.5	300
I383565		5.49	3.44	0.12	0.6	0.128	0.48	14.5	6.4	5.64	750	1.23	0.02	6.1	21.2	630
I383566		2.29	2.96	0.08	0.5	0.103	0.34	7.3	5.0	5.49	681	0.82	0.02	4.4	15.8	360
I383567		21.6	11.40	0.32	0.7	1.625	0.63	90.3	6.1	0.62	6300	4.19	0.05	8.3	46.2	1430
I383568		0.49	0.23	0.14	<0.1	0.006	0.02	0.6	0.9	13.05	219	0.09	<0.01	0.3	1.1	170
I383569		2.24	2.26	0.07	0.2	0.659	0.17	5.2	3.3	7.21	3610	0.68	0.02	2.4	9.3	260
I383570		2.15	16.50	0.14	0.9	0.022	3.71	2.5	15.4	0.65	316	16.60	1.22	2.1	15.4	680
I383571		4.33	4.25	0.11	0.5	1.010	0.41	16.7	4.6	1.78	4430	1.52	0.02	5.4	20.6	530
I383572		0.47	0.25	0.16	<0.1	0.006	0.02	0.6	1.1	12.95	221	0.16	<0.01	0.4	1.3	180
I383573		3.73	1.99	0.10	0.2	0.791	0.12	6.4	4.8	9.45	3050	2.00	0.03	1.9	16.2	220
I383574		4.92	2.72	0.11	0.3	0.982	0.18	10.0	4.8	8.48	3850	1.99	0.03	2.7	19.5	310
I383575		0.41	0.28	0.15	<0.1	0.014	0.02	1.1	3.4	12.55	351	0.62	0.01	0.4	2.9	40
I383576		9.24	2.73	0.16	0.4	0.222	0.36	8.2	4.7	6.48	1560	12.80	0.01	4.3	55.3	510
I383577		0.77	0.41	0.08	<0.1	0.041	0.04	1.9	3.6	12.55	507	1.24	0.01	0.7	3.6	80
I383578		19.20	10.30	0.34	0.9	4.23	0.89	62.5	10.1	2.93	10650	17.35	0.04	11.9	68.7	1600
I383579		4.34	3.25	0.11	0.4	1.945	0.35	13.2	5.2	4.74	9700	5.02	0.08	5.1	26.7	580
I383580		2.66	2.06	0.08	0.3	1.105	0.16	6.8	2.7	5.67	9180	4.55	0.03	2.4	21.7	360
I383581		1.65	1.81	0.06	0.3	0.440	0.22	7.5	4.0	9.55	2910	1.97	0.02	3.1	16.6	360
I383582		1.00	1.29	0.06	0.2	0.156	0.15	3.9	4.1	11.45	1480	0.92	0.04	2.1	9.4	210
I383583		7.31	5.12	0.16	0.7	0.783	0.57	22.7	5.6	1.42	7310	3.05	0.03	7.5	49.2	1090
I383584		3.95	5.39	0.10	0.7	0.415	0.70	14.4	9.0	0.85	4160	1.71	0.04	8.5	38.3	860
I383585		3.13	4.66	0.10	0.4	0.423	0.56	14.1	6.7	0.84	3860	1.03	0.06	7.6	29.1	730
I383586		9.26	12.50	0.22	1.3	1.160	1.72	48.5	19.2	3.21	4310	2.19	0.06	20.8	84.9	2000
I383587		3.68	3.69	0.10	0.4	0.336	0.46	17.5	5.6	5.13	2280	1.11	0.07	6.4	25.5	710
I383588		4.24	5.24	0.11	0.8	0.955	0.62	17.7	7.5	3.74	3720	1.49	0.04	8.5	31.8	900
I383589		0.42	0.93	0.15	0.1	0.035	0.07	2.6	3.3	11.50	510	0.45	0.02	1.0	3.8	100
I383590		0.30	0.70	0.29	0.1	0.017	0.05	2.0	3.1	11.45	468	0.38	0.01	0.8	3.9	80
I383591		3.53	4.46	0.13	0.7	0.329	0.55	19.2	6.9	7.78	1440	1.28	0.03	6.9	28.0	720
I383592		0.28	0.61	0.26	0.1	0.007	0.04	2.4	3.1	12.15	259	0.40	0.02	0.7	3.5	90
I383593		1.56	1.84	0.10	0.3	0.074	0.19	5.7	3.0	8.94	577	1.04	0.02	2.5	11.5	330
I383594		9.32	17.70	0.24	6.8	0.135	1.44	19.6	27.0	2.55	860	6.83	0.91	4.0	536	410
I383595		4.93	4.20	0.14	0.6	0.386	0.50	17.9	7.0	5.01	4130	1.60	0.03	6.7	26.0	610



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Account: RCM

Project: Rau - Cheetah

CERTIFICATE OF ANALYSIS WH11169076

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383560		1030	40.7	<0.002	0.01	20.5	6.3	2	5.2	22.1	0.85	0.24	3.1	0.284	1.25	4.9
I383561		202	18.5	<0.002	<0.01	4.24	2.1	1	2.3	38.8	0.29	0.07	1.0	0.107	0.31	2.5
I383562		823	52.5	0.002	0.01	23.8	7.4	2	5.6	32.4	1.10	0.30	4.3	0.361	1.42	5.1
I383563		215	12.0	<0.002	<0.01	3.58	1.6	1	2.2	62.3	0.20	0.07	0.9	0.073	0.24	4.0
I383564		90.8	9.8	<0.002	<0.01	1.41	1.4	1	2.3	63.1	0.16	0.05	0.6	0.054	0.14	2.6
I383565		309	21.9	<0.002	<0.01	5.76	2.8	2	2.2	39.9	0.36	0.13	1.3	0.130	0.34	3.1
I383566		161.5	15.9	<0.002	<0.01	3.15	1.9	1	2.0	48.6	0.25	0.05	0.9	0.086	0.23	1.8
I383567		1560	27.5	0.002	0.01	25.4	3.7	3	17.3	16.7	0.48	0.36	2.2	0.163	1.06	3.9
I383568		2.7	1.0	<0.002	0.01	0.07	0.2	1	<0.2	45.6	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
I383569		254	8.0	<0.002	<0.01	2.47	1.1	1	2.6	53.9	0.13	<0.05	0.6	0.046	0.21	1.7
I383570		6.8	1640	<0.002	0.03	0.81	8.4	2	1.0	58.1	0.23	<0.05	0.6	0.261	13.75	0.3
I383571		416	19.6	<0.002	<0.01	6.92	2.3	1	6.1	24.4	0.30	0.07	1.2	0.105	0.41	1.9
I383572		2.6	1.9	<0.002	<0.01	0.05	0.2	1	<0.2	46.3	<0.05	<0.05	<0.2	<0.005	<0.02	0.7
I383573		140.0	6.1	0.002	<0.01	3.38	1.1	1	2.1	68.5	0.10	0.06	0.4	0.031	0.19	2.1
I383574		222	8.4	<0.002	<0.01	4.63	1.4	1	4.7	57.4	0.14	0.08	0.6	0.050	0.25	2.1
I383575		17.2	1.1	<0.002	<0.01	0.65	0.2	1	0.2	57.5	<0.05	<0.05	<0.2	<0.005	0.05	2.9
I383576		338	16.0	0.003	0.01	7.27	2.1	3	4.0	35.6	0.23	0.39	0.9	0.081	1.21	8.8
I383577		54.5	1.9	<0.002	<0.01	0.59	0.4	1	0.5	55.9	<0.05	<0.05	0.2	0.009	0.07	2.7
I383578		5340	32.7	0.002	0.07	49.4	6.2	3	12.4	26.3	0.72	0.36	2.6	0.234	1.67	11.0
I383579		2040	15.6	<0.002	0.21	18.10	2.4	1	3.8	195.5	0.28	0.06	1.0	0.096	0.81	4.6
I383580		892	7.7	<0.002	0.04	9.12	1.2	1	2.0	56.8	0.13	<0.05	0.5	0.043	0.83	4.4
I383581		653	9.5	<0.002	<0.01	4.94	1.6	1	2.0	43.3	0.17	<0.05	0.7	0.064	0.41	5.2
I383582		527	7.1	<0.002	0.10	2.60	1.0	1	1.2	97.7	0.11	<0.05	0.4	0.039	0.17	3.7
I383583		2850	23.8	<0.002	0.01	29.0	5.5	2	5.4	27.1	0.44	0.06	1.6	0.160	0.81	4.4
I383584		8740	28.4	<0.002	0.09	23.5	4.8	2	3.8	37.7	0.50	0.07	1.8	0.181	0.89	3.8
I383585		3120	26.1	<0.002	0.17	14.15	3.9	1	3.3	93.9	0.43	0.06	1.4	0.147	0.72	3.2
I383586		2290	66.6	<0.002	0.07	29.8	11.0	2	11.5	31.4	1.26	0.20	4.0	0.439	1.64	5.0
I383587		839	19.9	<0.002	0.19	9.60	3.6	2	3.4	50.3	0.35	0.06	1.1	0.125	0.54	2.3
I383588		1205	26.2	<0.002	0.08	12.75	4.3	2	5.3	72.1	0.50	0.08	1.7	0.167	0.70	2.7
I383589		65.2	3.5	<0.002	<0.01	0.51	0.5	1	0.6	73.6	0.05	<0.05	0.4	0.013	0.05	0.9
I383590		33.4	2.5	<0.002	<0.01	0.38	0.4	1	0.4	69.4	<0.05	<0.05	0.3	0.009	0.05	1.5
I383591		520	25.0	<0.002	<0.01	10.10	3.6	2	6.1	52.5	0.40	0.08	1.7	0.134	0.53	2.6
I383592		13.9	2.0	<0.002	<0.01	0.26	0.3	1	0.3	58.3	<0.05	<0.05	0.3	0.008	0.04	0.7
I383593		128.5	8.1	<0.002	<0.01	2.29	1.2	1	1.6	48.9	0.14	<0.05	0.7	0.046	0.14	1.5
I383594		255	78.1	0.003	1.66	205	24.0	3	3.0	142.0	0.39	1.81	5.7	0.267	1.03	1.8
I383595		513	21.0	<0.002	0.01	9.66	4.1	2	4.1	43.0	0.37	0.07	1.3	0.133	0.48	1.9



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Project: Rau - Cheetah

CERTIFICATE OF ANALYSIS WH11169076

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
I383560		95	105.5	19.3	4770	33.7
I383561		41	23.2	5.3	854	16.7
I383562		113	146.0	17.6	3700	48.1
I383563		38	31.1	4.5	635	11.9
I383564		29	8.4	3.3	271	12.7
I383565		43	43.7	7.9	1550	22.6
I383566		34	18.0	4.7	684	19.0
I383567		76	176.0	16.6	5430	25.4
I383568		2	0.2	0.8	25	<0.5
I383569		24	7.2	3.8	993	8.7
I383570		57	0.4	8.3	34	32.1
I383571		52	31.2	5.5	1420	19.4
I383572		2	0.2	0.8	21	<0.5
I383573		34	22.8	4.4	714	7.6
I383574		41	24.3	5.7	972	10.0
I383575		32	0.6	1.1	92	0.9
I383576		78	9.3	5.5	2040	15.3
I383577		38	0.8	1.3	165	1.8
I383578		100	51.2	18.4	6310	35.3
I383579		34	16.7	6.8	4850	14.4
I383580		32	12.0	4.9	3750	10.5
I383581		39	9.2	4.4	1380	11.1
I383582		27	3.3	2.5	928	7.3
I383583		65	26.1	21.2	4560	25.5
I383584		74	23.3	9.6	2610	28.6
I383585		52	19.9	8.9	2600	18.9
I383586		122	58.6	20.0	4320	51.7
I383587		44	21.2	10.5	1700	17.3
I383588		63	23.3	11.5	2330	30.1
I383589		24	1.7	2.0	132	4.2
I383590		34	1.4	1.4	87	3.0
I383591		51	13.8	8.6	1080	27.5
I383592		13	0.9	1.8	46	3.0
I383593		31	4.7	3.2	326	10.6
I383594		167	42.1	15.0	417	285
I383595		50	12.6	17.3	1020	23.0



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Project: Rau - Cheetah

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CERTIFICATE OF ANALYSIS WH11169076

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11169077

Project: Rau (Puma/Cheetah)

P.O. No.: Batch 28 - Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11169077

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383524		3.10	0.02	2.36	0.06	27	70	0.09	1.42	21.4	1.35	2.25	1.0	2	0.07	9.6
I383525		7.62	<0.01	0.21	0.04	<5	40	0.11	0.08	20.8	0.50	1.34	0.3	1	0.05	1.7
I383526		7.02	<0.01	0.31	0.10	<5	110	0.23	0.08	21.2	1.01	2.65	0.4	3	0.08	3.2
I383527		9.00	0.09	0.95	0.61	13	410	0.59	0.47	20.4	1.61	13.05	1.8	11	0.60	14.7
I383528		7.97	<0.01	0.26	0.09	<5	80	0.08	0.12	20.4	1.00	2.32	0.4	2	0.07	3.0
I383529		10.40	0.01	0.77	0.12	<5	180	0.14	0.15	21.3	2.00	2.23	1.9	2	0.09	5.1
I383530		11.96	0.01	0.29	0.04	<5	90	0.10	0.17	21.1	1.28	1.85	0.6	1	0.06	2.6
I383531		12.38	<0.01	0.20	0.07	6	120	0.10	0.20	20.7	1.15	1.29	0.9	2	0.08	4.8
I383532		11.55	<0.01	0.14	0.06	<5	100	0.10	0.15	20.8	0.79	1.47	1.0	1	0.06	2.4
I383533		8.97	0.01	0.49	0.12	5	190	0.20	0.46	20.8	3.01	3.38	1.8	4	0.06	4.7
I383534		8.10	<0.01	0.24	0.08	8	110	0.15	0.22	20.4	0.68	2.28	1.2	3	0.05	2.6
I383535		11.43	0.01	0.42	0.14	6	220	0.16	0.62	20.3	1.41	3.29	2.0	4	0.10	2.8
I383536		5.57	<0.01	0.72	0.37	24	320	0.32	1.30	19.00	9.02	5.99	7.1	7	0.17	3.9
I383537		4.47	0.02	2.18	0.66	33	370	0.36	2.85	19.55	7.35	9.77	3.2	15	0.43	11.4
I383538		7.98	<0.01	0.01	0.06	<5	20	0.05	0.01	20.3	0.10	1.22	1.2	1	0.19	1.9
I383539		5.87	<0.01	0.25	0.06	<5	80	0.12	0.20	20.1	0.56	1.54	1.2	2	0.09	1.4
I383540		6.29	<0.01	0.06	0.05	7	30	0.17	0.39	20.8	0.06	1.78	1.2	1	0.06	0.9
I383541		10.96	0.01	0.09	0.21	12	100	0.30	0.64	22.4	0.14	3.31	2.0	3	0.20	2.7
I383542		6.27	0.01	0.10	0.50	32	220	0.41	0.91	20.5	0.16	6.36	3.7	6	0.41	5.8
I383543		5.00	<0.01	0.49	0.07	12	90	0.14	0.48	21.3	3.46	1.23	1.2	2	<0.05	3.7
I383544		3.21	0.31	39.7	1.84	563	2880	0.79	251	18.45	48.9	63.0	25.8	37	2.51	733
I383545		8.21	<0.01	0.05	0.06	5	20	0.05	0.18	20.8	0.11	1.39	1.3	1	0.17	2.3
I383546		0.26	1.35	0.61	5.31	77.5	90	1.35	1.42	1.06	0.14	16.25	24.5	165	29.0	461
I383547		6.47	0.06	5.32	0.87	35	470	0.47	3.37	24.3	5.23	9.27	2.2	11	0.58	18.1
I383548		9.43	0.01	0.72	0.14	9	110	0.17	0.56	21.0	0.76	2.61	1.2	2	0.16	2.3
I383549		4.38	0.01	0.88	0.29	31	150	0.26	1.09	21.5	0.88	3.62	1.6	4	0.22	3.4
I383550		1.76	0.01	0.93	0.30	43	140	0.27	1.42	21.8	1.17	3.07	1.6	5	0.15	3.8
I383551		7.08	0.11	4.43	0.93	433	320	0.35	39.1	22.0	4.64	20.3	4.9	21	0.97	22.0
I383552		7.76	0.02	0.37	0.16	25	80	0.12	2.41	20.0	0.66	3.24	1.6	3	0.17	4.5
I383553		8.02	0.01	0.33	0.04	11	40	0.09	0.40	15.40	0.77	0.71	0.9	2	<0.05	2.2
I383554		0.25	8.94	23.1	5.46	7.0	40	1.44	1.21	1.49	0.03	6.74	9.3	40	64.5	21.7
I383555		7.63	0.55	7.55	0.93	1780	780	0.41	65.0	15.90	59.9	57.3	6.8	23	0.94	106.5
I383556		5.57	0.02	0.73	0.16	121	150	0.12	3.62	16.40	1.38	3.70	1.0	5	0.14	2.4
I383557		6.30	0.22	4.31	0.76	1230	380	0.31	124.0	15.95	7.95	26.2	4.1	18	0.93	18.5
I383558		3.40	0.41	6.46	1.39	8940	750	0.46	91.5	13.65	28.9	75.5	8.0	30	1.80	24.7
I383559		3.80	1.42	8.57	1.72	>10000	820	0.59	191.0	6.08	34.6	178.5	11.4	50	1.97	40.7



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CERTIFICATE OF ANALYSIS WH11169077

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383524		1.42	0.19	<0.05	<0.1	0.036	0.02	1.0	2.3	11.75	495	3.86	0.01	0.1	10.6	80
I383525		0.12	0.13	0.09	<0.1	0.008	0.01	0.7	2.5	12.45	281	1.55	0.01	0.1	1.5	90
I383526		0.18	0.40	0.13	0.1	0.009	0.04	1.3	2.8	12.75	344	1.34	0.01	0.4	3.6	260
I383527		0.64	2.40	0.11	0.4	0.035	0.30	7.1	5.7	11.65	539	4.03	0.02	2.6	19.2	5160
I383528		0.15	0.37	0.13	0.1	0.024	0.03	1.1	3.0	12.25	408	1.01	0.01	0.4	3.7	320
I383529		0.26	0.36	0.08	0.1	0.018	0.05	1.0	2.3	12.45	851	1.85	0.01	0.5	6.5	90
I383530		0.18	0.16	0.10	<0.1	0.066	0.01	0.9	1.9	12.45	867	1.23	0.01	0.1	3.3	30
I383531		0.21	0.38	<0.05	<0.1	0.076	0.03	0.8	1.9	12.85	841	1.30	0.01	0.4	12.2	20
I383532		0.17	0.29	0.06	<0.1	0.023	0.02	0.9	1.7	13.00	512	1.47	0.01	0.4	2.8	10
I383533		0.35	0.50	0.06	<0.1	0.049	0.05	1.9	1.8	12.80	572	2.58	0.01	0.8	7.6	160
I383534		0.18	0.35	0.07	<0.1	0.018	0.03	1.2	1.1	12.80	442	1.57	0.01	0.5	4.7	60
I383535		0.38	0.71	0.07	<0.1	0.135	0.07	1.7	1.2	12.45	1680	3.94	0.01	0.8	9.7	90
I383536		0.53	1.49	0.06	<0.1	0.084	0.19	2.8	1.6	11.90	2790	8.70	0.01	1.6	18.3	110
I383537		0.81	2.39	0.08	0.2	0.105	0.32	5.5	4.1	12.25	1440	4.72	0.01	3.0	16.8	300
I383538		0.47	0.24	0.08	<0.1	<0.005	0.02	0.6	1.0	12.75	220	0.20	0.01	0.4	2.4	180
I383539		0.15	0.32	0.10	<0.1	0.045	0.03	0.8	1.5	12.60	575	1.97	0.01	0.5	4.5	60
I383540		0.27	0.26	0.08	<0.1	0.007	0.02	1.0	3.5	12.85	365	1.00	0.01	0.3	3.9	40
I383541		0.39	0.84	0.11	<0.1	0.007	0.09	1.8	4.4	13.40	417	4.78	0.02	0.8	10.7	380
I383542		0.92	1.64	0.07	0.1	0.010	0.22	3.5	4.9	12.00	408	28.4	0.02	1.9	23.2	850
I383543		0.35	0.32	0.09	<0.1	0.104	0.02	0.7	2.7	12.70	773	1.62	0.01	0.5	5.2	70
I383544		8.49	7.29	0.23	0.6	8.12	0.75	46.0	9.5	0.82	21100	9.28	<0.01	10.2	97.8	1210
I383545		0.48	0.24	0.06	<0.1	0.011	0.02	0.6	1.0	12.95	240	0.17	<0.01	0.4	2.2	190
I383546		2.10	14.85	0.15	2.3	0.049	3.74	9.1	8.9	0.39	322	5.66	1.26	2.8	503	470
I383547		0.71	2.92	0.08	0.3	0.091	0.39	4.9	5.4	7.81	574	0.74	0.02	4.2	15.3	440
I383548		0.29	0.50	0.07	<0.1	0.031	0.06	1.4	4.1	12.15	464	0.43	0.02	0.8	4.4	60
I383549		0.43	1.53	0.08	<0.1	0.035	0.10	1.9	3.5	12.00	593	0.85	0.02	1.3	6.4	260
I383550		0.66	2.03	0.08	<0.1	0.032	0.09	1.6	2.9	11.40	475	0.96	0.03	1.4	7.3	440
I383551		4.50	2.83	0.13	0.2	0.173	0.37	13.7	4.6	7.13	892	3.68	0.02	4.4	27.8	650
I383552		0.38	0.50	0.06	<0.1	0.034	0.06	2.3	2.0	11.90	281	0.41	0.01	1.0	5.7	80
I383553		0.14	0.24	0.11	<0.1	0.006	0.01	0.5	1.9	9.29	229	0.33	0.01	0.3	3.3	30
I383554		2.21	15.30	0.11	0.8	0.020	3.79	2.8	19.3	0.66	314	18.70	1.25	2.0	16.1	680
I383555		7.17	3.62	0.22	0.2	2.71	0.36	41.1	4.1	3.41	6580	3.14	0.01	4.8	37.9	880
I383556		0.53	0.69	0.05	<0.1	0.028	0.07	1.9	2.1	8.35	471	0.26	0.01	0.7	3.9	120
I383557		3.42	2.33	0.11	0.1	0.176	0.32	17.1	3.4	2.50	1300	0.80	0.01	4.0	21.5	430
I383558		19.45	4.53	0.42	0.4	0.233	0.57	53.1	5.2	2.35	3000	4.34	0.01	8.2	57.3	1200
I383559		23.2	5.87	0.55	0.4	0.359	0.70	125.5	6.2	1.34	2830	4.01	0.01	7.6	75.6	1700



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Project: Rau (Puma/Cheetah)

CERTIFICATE OF ANALYSIS WH11169077

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383524		196.5	0.6	<0.002	0.01	2.69	0.4	1	0.8	54.4	<0.05	<0.05	<0.2	<0.005	0.05	3.5
I383525		35.0	0.5	<0.002	0.01	0.58	0.2	1	0.3	59.1	<0.05	<0.05	<0.2	<0.005	0.03	5.0
I383526		81.6	1.6	0.002	0.01	0.78	0.5	<1	0.4	66.7	<0.05	<0.05	0.2	0.011	0.06	4.7
I383527		157.5	12.1	0.002	0.01	2.59	2.3	2	0.9	75.5	0.16	<0.05	1.0	0.060	0.69	42.9
I383528		64.9	1.4	<0.002	0.01	0.72	0.4	<1	0.4	59.1	<0.05	<0.05	<0.2	0.008	0.07	4.0
I383529		119.0	1.7	0.002	0.02	1.17	0.4	<1	0.3	60.5	<0.05	<0.05	0.2	0.010	0.27	3.5
I383530		107.5	0.5	<0.002	0.01	1.50	0.2	<1	0.3	52.2	<0.05	<0.05	<0.2	<0.005	0.09	4.8
I383531		82.4	1.6	<0.002	0.01	0.85	0.2	1	0.4	56.9	<0.05	<0.05	<0.2	<0.005	0.05	3.8
I383532		58.5	1.0	<0.002	0.01	0.72	0.2	2	0.2	56.8	<0.05	<0.05	<0.2	<0.005	0.04	3.6
I383533		128.5	2.0	<0.002	0.02	1.34	0.4	2	0.4	64.4	<0.05	<0.05	0.3	0.010	0.12	3.5
I383534		54.6	1.3	<0.002	0.01	0.70	0.3	2	0.2	68.0	<0.05	<0.05	0.2	0.005	0.07	4.5
I383535		142.5	2.5	<0.002	0.01	2.03	0.5	2	0.4	71.0	<0.05	<0.05	0.3	0.010	0.38	4.8
I383536		320	6.4	0.002	0.02	17.75	1.1	2	0.6	81.4	0.09	<0.05	0.8	0.028	1.48	2.3
I383537		1080	12.0	0.003	0.01	12.10	1.8	2	3.1	73.1	0.17	<0.05	1.4	0.052	0.77	3.6
I383538		5.8	1.4	<0.002	0.01	0.12	0.2	2	<0.2	48.5	<0.05	<0.05	0.2	<0.005	<0.02	2.0
I383539		50.4	1.1	<0.002	0.01	0.61	0.2	2	0.3	58.9	<0.05	<0.05	<0.2	<0.005	0.13	2.9
I383540		5.5	0.8	<0.002	0.01	0.52	0.3	2	<0.2	67.4	<0.05	<0.05	<0.2	<0.005	0.03	4.2
I383541		14.2	3.7	<0.002	0.01	1.06	0.6	2	0.3	73.6	<0.05	<0.05	0.3	0.012	0.18	5.5
I383542		15.7	8.6	0.002	0.01	1.96	1.2	2	0.7	67.2	0.11	<0.05	0.9	0.032	0.62	7.8
I383543		213	0.9	<0.002	0.01	1.80	0.2	2	0.4	68.5	<0.05	<0.05	<0.2	0.006	0.11	1.6
I383544		>10000	30.5	<0.002	0.02	138.0	5.5	2	37.4	29.2	0.64	0.20	2.5	0.218	6.02	9.3
I383545		11.0	1.6	<0.002	0.01	0.15	0.3	2	<0.2	49.2	<0.05	<0.05	<0.2	<0.005	0.02	0.4
I383546		179.0	980	0.002	0.32	2.79	3.6	1	3.4	56.5	2.48	0.18	2.2	0.087	8.51	0.8
I383547		255	16.9	<0.002	0.01	4.84	2.0	2	3.3	47.8	0.25	<0.05	1.2	0.067	0.23	3.6
I383548		39.5	2.7	<0.002	0.01	0.50	0.5	2	0.7	62.1	<0.05	<0.05	0.2	0.010	0.05	3.2
I383549		71.9	4.1	<0.002	0.01	0.64	0.7	2	1.8	60.2	0.07	<0.05	0.5	0.022	0.08	4.0
I383550		81.3	3.7	<0.002	0.01	0.72	0.6	2	2.5	58.3	0.07	<0.05	0.5	0.022	0.06	4.5
I383551		437	13.9	<0.002	0.02	8.12	2.6	2	3.6	50.0	0.26	<0.05	1.2	0.091	0.39	3.6
I383552		55.0	2.3	<0.002	0.01	0.95	0.5	2	0.7	65.5	0.05	<0.05	0.2	0.016	0.07	4.6
I383553		21.7	0.5	<0.002	0.01	0.73	0.2	2	<0.2	53.3	<0.05	<0.05	<0.2	<0.005	0.03	3.5
I383554		6.5	1630	<0.002	0.03	0.86	7.2	1	1.2	62.7	0.32	<0.05	0.6	0.265	14.60	0.3
I383555		3850	14.2	<0.002	0.01	27.9	3.2	4	17.3	28.1	0.29	0.09	1.3	0.100	1.25	4.0
I383556		47.5	3.0	<0.002	<0.01	0.69	0.6	2	0.4	81.4	<0.05	<0.05	0.2	0.011	0.06	1.6
I383557		471	12.9	<0.002	<0.01	6.35	2.2	2	4.5	24.8	0.23	0.10	1.0	0.082	0.37	1.7
I383558		612	23.7	0.003	0.01	14.15	5.6	3	3.3	24.0	0.50	0.16	2.3	0.162	0.88	6.5
I383559		803	27.5	0.005	0.01	28.9	6.2	2	4.6	22.2	0.46	0.56	4.9	0.171	1.05	27.4



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Project: Rau (Puma/Cheetah)

CERTIFICATE OF ANALYSIS WH11169077

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Pb- OG62 Pb % 0.001	As- OG62 As % 0.001
I383524		45	0.2	1.2	1000	0.7		
I383525		26	0.1	0.7	99	0.6		
I383526		34	0.2	1.6	156	2.2		
I383527		132	0.6	9.8	320	14.5		
I383528		14	0.1	1.1	138	2.0		
I383529		16	0.1	0.8	430	2.3		
I383530		37	0.2	0.9	302	0.8		
I383531		18	0.1	0.7	262	1.6		
I383532		17	0.1	0.7	196	1.4		
I383533		17	0.1	1.3	367	3.4		
I383534		26	0.1	1.0	176	1.9		
I383535		26	0.2	1.4	465	3.3		
I383536		23	0.9	2.1	2110	8.0		
I383537		91	3.6	3.4	1480	16.2		
I383538		1	0.1	0.9	27	0.5		
I383539		8	0.7	0.6	278	1.6		
I383540		16	0.2	1.0	19	1.3		
I383541		29	3.6	2.0	39	5.8		
I383542		50	3.6	3.1	39	11.6		
I383543		3	0.3	0.7	339	2.2		
I383544		62	92.9	18.7	5390	36.5	1.155	
I383545		2	0.2	1.0	23	<0.5		
I383546		22	8.6	4.3	146	105.5		
I383547		26	4.1	4.2	651	19.3		
I383548		12	0.7	1.3	137	3.1		
I383549		21	3.3	1.9	181	6.7		
I383550		22	2.8	1.7	327	7.2		
I383551		34	10.3	7.3	1360	17.2		
I383552		9	2.0	1.6	125	3.4		
I383553		14	0.8	0.6	92	1.1		
I383554		56	0.4	8.8	31	36.7		
I383555		50	90.9	12.0	4900	19.3		
I383556		18	3.7	1.6	185	2.6		
I383557		30	22.2	5.9	1210	14.3		
I383558		65	133.5	17.9	5810	27.7		
I383559		79	384	19.8	5340	23.1		2.49



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CERTIFICATE OF ANALYSIS WH11169077

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11174079

Project: Rau - Kathy

P.O. No.: Batch 31 - Area I

This report is for 14 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- SEP- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rau - Kathy

CERTIFICATE OF ANALYSIS WH11174079

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA26 Au ppm 0.01	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
I383632		6.34	<0.01	0.03	0.64	8	1460	2.10	0.16	19.80	1.02	5.66	2.5	8	49.6	7.2
I383633		1.88	<0.01	0.10	6.64	1.6	580	24.5	0.51	1.16	0.07	63.3	0.3	5	5.31	15.6
I383634		7.60	<0.01	0.01	0.07	<5	30	0.08	0.03	20.4	0.06	1.31	1.4	<1	0.23	1.3
I383635		2.46	<0.01	0.25	2.29	6	430	25.7	3.64	17.20	0.12	39.5	3.6	2	20.5	61.6
I383636		2.80	<0.01	0.11	1.43	20	120	12.00	0.76	18.90	0.14	17.45	1.6	2	4.82	9.2
I383637		1.35	<0.01	0.14	1.22	46	110	10.40	0.83	19.45	0.06	13.40	2.5	2	4.31	28.5
I383638		10.59	<0.01	0.05	0.41	<5	220	14.20	5.53	21.8	0.08	3.34	1.2	2	10.50	16.2
I383639		4.08	<0.01	0.05	6.84	0.5	170	15.60	0.38	1.31	0.05	34.8	0.5	9	6.81	5.2
I383640		0.24	0.51	1.47	0.15	5990	50	0.08	74.6	16.05	2.23	15.20	1.6	6	0.38	15.8
I383641		4.86	0.11	1.13	0.11	316	180	0.34	2.33	11.65	1.17	6.68	2.0	<1	0.50	26.3
I383642		6.08	0.12	1.47	0.18	353	220	0.49	4.52	20.0	0.86	3.30	1.3	1	0.27	8.9
I383643		6.75	<0.01	0.09	0.96	<5	950	14.75	1.64	20.4	0.06	34.7	1.5	1	12.40	16.3
I383644		6.12	<0.01	0.03	0.50	<5	390	8.62	0.29	20.8	0.05	5.19	1.3	1	3.61	7.4
I383645		8.12	<0.01	<0.01	0.06	<5	20	0.09	0.02	20.2	0.06	1.21	1.5	<1	0.20	1.3



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CERTIFICATE OF ANALYSIS WH11174079

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383632		0.40	2.51	0.26	0.2	0.032	0.43	4.1	97.2	11.10	120	20.4	0.10	1.5	27.7	340
I383633		0.49	45.4	0.31	3.5	0.026	2.02	23.5	19.5	0.30	124	1.47	2.75	56.0	0.8	30
I383634		0.45	0.43	0.45	<0.1	0.005	0.02	0.6	1.1	12.40	201	0.12	0.01	0.4	3.1	170
I383635		3.68	20.6	0.09	0.5	0.892	1.00	15.8	28.7	9.58	1680	27.4	0.34	40.3	3.1	70
I383636		1.25	10.45	0.08	0.3	0.117	0.49	7.5	12.3	10.35	894	12.80	0.37	15.1	4.3	50
I383637		1.55	8.53	0.07	0.3	0.139	0.41	5.8	12.5	10.90	887	10.65	0.34	10.6	5.8	50
I383638		0.52	4.33	0.26	0.1	0.063	0.32	1.8	9.5	12.10	530	3.54	0.01	2.3	2.9	50
I383639		0.49	38.3	0.35	5.7	0.032	4.13	12.6	16.9	0.28	211	11.00	2.41	146.5	0.5	10
I383640		10.50	1.26	0.10	0.1	0.126	0.05	6.4	1.9	8.66	4370	2.18	0.02	1.5	6.0	130
I383641		15.70	2.64	0.24	<0.1	4.70	0.05	4.2	3.3	5.39	25900	5.67	0.01	0.6	9.6	50
I383642		2.10	0.92	<0.05	0.1	0.490	0.08	2.0	2.2	11.50	3890	1.88	0.01	0.7	4.8	40
I383643		1.49	9.78	0.06	0.4	0.510	0.41	16.6	12.5	11.45	751	37.0	0.09	13.8	3.6	40
I383644		0.51	3.02	0.22	0.3	0.160	0.16	2.6	4.9	11.65	363	3.46	0.06	2.7	3.5	30
I383645		0.44	0.45	0.50	<0.1	0.005	0.02	0.6	0.8	12.25	195	0.10	<0.01	0.4	3.7	170



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Project: Rau - Kathy

CERTIFICATE OF ANALYSIS WH11174079

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383632		2.4	261	0.053	0.30	0.22	1.1	3	6.9	93.5	0.07	<0.05	0.9	0.031	3.05	10.4
I383633		8.2	450	<0.002	0.09	0.17	2.7	1	2.8	52.3	57.1	<0.05	16.0	<0.005	2.20	5.4
I383634		1.2	1.9	<0.002	0.01	<0.05	0.2	1	<0.2	45.8	0.06	<0.05	<0.2	<0.005	0.02	0.8
I383635		13.1	550	0.008	0.75	0.38	5.5	2	22.7	80.5	16.85	0.06	4.7	0.008	2.22	5.9
I383636		5.0	125.5	0.009	0.43	0.25	1.6	2	8.8	111.0	11.00	<0.05	3.0	0.006	0.61	5.6
I383637		8.3	124.0	0.011	0.90	0.28	1.4	2	15.4	118.5	7.97	<0.05	2.4	0.007	0.61	6.2
I383638		2.0	225	0.003	0.18	0.19	0.8	2	4.1	139.5	1.32	<0.05	0.5	0.007	0.91	6.3
I383639		34.9	520	<0.002	0.05	0.13	2.4	2	7.8	26.6	35.1	0.07	21.8	<0.005	2.24	23.3
I383640		104.5	4.8	0.002	8.83	3.45	0.6	2	3.7	116.0	<0.05	0.10	0.8	0.009	0.07	0.5
I383641		78.2	10.6	0.006	0.20	1.90	0.4	<1	18.3	51.6	<0.05	<0.05	<0.2	<0.005	0.06	1.9
I383642		55.3	14.4	0.003	0.19	1.09	0.4	1	10.0	106.0	<0.05	<0.05	0.4	0.008	0.08	2.2
I383643		2.0	203	0.062	0.22	0.19	4.5	2	13.9	156.5	8.06	<0.05	2.5	0.008	1.17	5.9
I383644		2.7	63.0	0.011	0.13	0.14	0.3	1	3.2	148.0	2.40	<0.05	1.2	<0.005	0.46	5.0
I383645		1.3	1.5	<0.002	0.01	<0.05	0.2	1	<0.2	44.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.6



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CERTIFICATE OF ANALYSIS WH11174079

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
I383632		33	9.5	4.9	112	8.1
I383633		1	9.2	15.9	16	18.1
I383634		1	0.1	0.9	16	<0.5
I383635		7	106.5	19.8	139	4.4
I383636		8	56.0	7.9	43	3.3
I383637		7	64.2	7.1	42	3.7
I383638		4	38.1	2.2	64	2.9
I383639		1	6.5	53.3	16	61.0
I383640		6	134.0	6.9	444	3.4
I383641		17	2.3	6.6	417	1.2
I383642		8	2.4	3.4	176	2.9
I383643		5	550	9.3	47	3.1
I383644		4	48.0	2.7	19	2.5
I383645		1	1.2	0.9	17	<0.5



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CERTIFICATE OF ANALYSIS WH11174079

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE WH11175140

Project: Rau - Kathy

P.O. No.: Batch 30 - Area I

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11175140

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I383596		10.37	0.02	0.73	0.30	114	160	0.18	8.57	19.80	1.34	8.02	2.4	5	0.27	8.0
I383597		8.42	0.12	3.62	0.98	547	360	0.30	16.50	22.4	6.50	19.15	4.7	17	1.22	17.2
I383598		3.29	0.04	4.66	2.35	514	790	0.54	24.7	20.3	5.46	41.3	8.4	34	3.17	31.1
I383599		17.35	<0.01	0.14	0.16	6	90	0.13	0.28	20.7	0.59	4.48	1.6	3	0.11	3.0
I383600		7.81	0.05	1.28	0.79	152	280	0.23	16.05	19.00	2.16	16.50	5.0	14	0.85	16.8
I383601		10.26	0.02	0.69	0.41	46	190	0.16	5.28	19.60	1.07	8.54	3.0	7	0.40	8.0
I383602		11.44	0.01	0.30	0.22	14	190	0.16	0.75	20.9	0.73	3.54	2.2	4	0.13	5.3
I383603		9.58	0.02	1.00	1.12	114	410	0.34	12.65	19.35	1.69	19.90	6.1	18	1.30	19.0
I383604		5.70	0.01	0.35	0.21	17	170	0.14	1.20	20.7	0.66	3.65	2.1	4	0.17	4.4
I383605		6.86	0.02	0.64	0.30	48	210	0.19	2.69	19.40	0.97	5.60	2.7	6	0.26	7.6
I383606		9.23	1.03	43.8	3.82	4920	5300	1.14	257	4.28	26.8	82.8	16.6	101	3.51	255
I383607		4.03	3.13	16.65	6.63	1705	1150	2.92	145.0	0.42	19.65	54.9	8.7	85	1.49	499
I383608		5.68	2.45	17.60	4.55	2310	1820	1.37	236	0.69	27.5	75.2	20.7	91	3.77	202
I383609		10.08	0.38	11.40	3.57	2080	1360	0.83	47.5	10.45	24.0	65.7	17.8	74	3.85	90.5
I383610		9.97	0.92	21.1	4.12	3670	2490	0.88	65.3	5.38	31.4	72.7	20.9	87	4.79	78.8
I383611		8.71	<0.01	0.10	0.08	6	30	0.05	0.26	20.8	0.15	1.53	1.7	2	0.21	2.3
I383612		9.21	0.93	25.9	2.92	4120	1730	0.78	57.2	10.80	33.6	72.0	15.4	62	3.25	58.1
I383613		0.25	2.45	1.67	6.39	1855	340	1.06	2.82	2.01	1.08	37.0	50.4	550	5.00	992
I383614		9.24	0.74	18.75	3.33	6490	1580	0.67	93.8	0.52	33.3	108.5	14.0	75	3.96	86.8
I383615		4.90	0.42	20.6	2.01	1780	1730	0.47	33.4	16.05	32.6	46.6	11.0	36	2.44	42.9
I383616		0.25	8.57	26.1	5.42	9.8	40	1.38	1.29	1.49	0.08	6.88	9.8	41	65.9	19.7
I383617		10.11	0.87	36.4	1.02	2780	1920	0.30	58.2	12.20	49.7	43.5	7.4	20	1.28	55.8
I383618		8.36	<0.01	0.07	0.06	8	40	0.06	0.18	21.2	0.16	1.56	1.8	<1	0.22	2.3
I383619		9.45	0.35	21.8	0.28	1110	1210	0.16	32.0	29.6	28.0	11.90	1.9	5	0.16	23.7
I383620		2.55	0.59	43.9	0.83	2350	9320	0.35	137.5	13.55	81.6	36.7	8.2	27	0.93	193.0
I383621		9.03	0.02	1.00	0.14	52	160	0.18	1.01	20.7	4.00	3.63	1.6	2	0.11	2.5
I383622		4.41	0.01	1.05	0.14	53	170	0.20	1.00	21.3	4.02	3.85	1.7	3	0.11	2.5
I383623		11.39	<0.01	0.35	0.17	18	140	0.16	1.22	16.70	0.50	4.38	1.7	6	0.10	1.8
I383624		6.60	0.02	2.63	0.96	466	340	0.43	10.65	17.50	4.40	23.1	6.5	13	1.31	19.2
I383625		5.91	<0.01	0.35	0.29	29	100	3.95	22.4	19.95	0.55	3.49	1.6	2	4.82	5.0
I383626		7.81	0.02	0.53	7.59	86.7	800	21.5	2.58	4.31	1.00	52.4	6.0	3	11.75	50.0
I383627		9.25	0.10	0.10	0.23	83	380	1.40	9.59	20.9	0.48	3.16	1.9	3	0.69	1.6
I383628		7.91	<0.01	0.04	0.17	<5	1150	0.56	0.15	21.9	0.05	2.41	1.5	2	0.98	1.0
I383629		7.51	<0.01	0.07	0.71	<5	1650	5.47	1.31	22.4	0.25	13.30	2.1	6	11.35	11.1
I383630		3.86	<0.01	0.11	0.83	<5	260	55.7	0.88	12.75	0.10	4.68	2.4	8	8.83	18.5
I383631		8.23	<0.01	0.02	0.26	<5	700	1.32	0.07	21.3	0.04	2.74	1.7	3	3.67	2.5



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Project: Rau - Kathy

CERTIFICATE OF ANALYSIS WH11175140

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I383596		1.10	1.28	0.18	0.2	0.089	0.11	5.0	4.7	11.60	652	0.59	0.02	1.9	9.3	240
I383597		3.27	3.72	0.05	0.4	0.227	0.38	12.7	4.7	6.70	1260	1.04	0.02	5.8	21.6	520
I383598		5.05	6.99	0.08	0.9	0.441	1.00	23.2	10.8	4.77	3410	1.07	0.02	14.0	35.2	790
I383599		0.24	0.77	0.52	0.1	0.014	0.07	2.3	2.9	12.55	200	0.84	0.01	1.0	6.3	220
I383600		1.72	2.34	0.08	0.4	0.132	0.32	10.0	4.3	11.50	691	0.97	0.01	4.5	20.5	320
I383601		0.69	1.39	0.20	0.2	0.071	0.17	5.3	2.2	12.10	417	1.64	0.01	2.5	14.2	170
I383602		0.27	0.96	0.61	0.1	0.018	0.09	2.0	1.9	12.80	162	1.53	0.01	1.2	12.8	100
I383603		1.66	3.15	0.09	0.5	0.130	0.44	12.6	5.5	10.70	627	1.29	0.02	6.3	27.3	400
I383604		0.30	0.81	0.45	0.1	0.017	0.08	2.0	1.8	12.35	166	0.96	0.01	1.2	10.2	110
I383605		0.52	0.93	0.13	0.1	0.031	0.12	3.5	3.0	11.85	334	1.13	0.01	1.6	12.9	160
I383606		21.0	11.20	0.33	0.6	3.97	1.30	51.9	9.4	1.17	3280	11.80	<0.01	12.1	87.9	1810
I383607		21.5	7.12	0.26	0.5	7.15	0.50	29.8	7.1	0.34	1340	6.31	0.02	3.8	96.5	2020
I383608		21.5	12.30	0.34	1.0	2.10	1.25	39.1	10.2	0.71	5740	13.15	0.04	10.4	108.5	3320
I383609		19.85	10.45	0.31	1.1	1.275	1.27	37.3	10.4	1.30	3120	7.02	0.04	13.5	75.6	1510
I383610		24.8	14.70	0.42	1.1	2.81	1.55	42.1	12.4	0.96	10300	5.29	0.05	15.5	86.3	1690
I383611		0.55	0.37	0.26	<0.1	0.012	0.03	0.7	0.9	12.65	227	0.09	<0.01	0.4	4.0	180
I383612		20.9	14.70	0.33	1.0	1.795	1.08	47.2	10.1	1.30	7610	5.02	0.04	12.9	60.7	1560
I383613		8.06	18.25	0.16	5.9	0.129	1.30	18.2	22.5	2.37	752	6.76	0.81	3.8	460	360
I383614		34.4	14.10	0.60	1.2	4.01	1.22	76.8	9.9	0.80	8440	5.33	0.04	10.3	59.8	1930
I383615		14.65	7.76	0.16	0.8	5.40	0.77	28.9	7.7	0.88	15700	3.06	0.03	10.1	45.0	970
I383616		2.22	17.05	0.12	1.0	0.028	3.74	2.9	18.0	0.68	333	23.2	1.23	2.1	14.2	660
I383617		21.8	5.51	0.28	0.4	6.50	0.37	27.5	3.6	1.94	20300	4.93	0.03	4.8	30.1	910
I383618		0.54	0.59	0.20	<0.1	0.022	0.03	0.8	1.3	12.45	284	0.11	<0.01	0.4	<0.2	180
I383619		6.81	4.85	0.05	0.1	3.37	0.07	7.3	0.8	0.63	10600	3.17	0.02	1.2	8.5	350
I383620		21.6	8.68	0.34	0.3	8.49	0.28	23.3	3.0	0.43	35400	8.04	0.08	3.5	33.4	1050
I383621		0.64	1.26	0.27	0.1	0.155	0.06	2.0	4.0	11.20	844	0.90	0.01	0.6	1.6	60
I383622		0.69	1.22	0.24	0.1	0.154	0.06	2.2	3.9	11.50	841	0.96	0.01	0.7	1.4	60
I383623		0.33	0.96	0.25	0.1	0.028	0.08	2.4	3.9	10.15	375	1.66	0.01	0.9	6.0	60
I383624		4.50	3.91	0.06	0.5	0.162	0.38	15.3	5.7	9.95	1530	4.39	0.02	7.5	30.1	400
I383625		1.75	2.09	<0.05	0.1	0.319	0.16	1.6	6.7	11.65	3080	1.38	0.01	1.8	5.4	40
I383626		2.32	63.6	0.10	2.1	0.566	4.01	16.4	70.0	1.72	1190	0.47	0.06	54.4	19.0	50
I383627		0.89	1.13	0.10	0.1	0.155	0.09	1.8	4.7	11.70	1710	1.83	0.01	0.8	7.5	50
I383628		0.14	0.73	0.52	<0.1	0.016	0.07	1.5	3.3	12.40	182	1.73	0.01	0.5	4.3	40
I383629		1.24	7.42	0.16	0.4	0.496	0.37	7.7	10.7	13.00	601	11.35	0.07	6.2	19.1	130
I383630		5.46	13.50	<0.05	0.3	1.385	0.50	1.8	33.3	9.48	3930	8.00	0.18	6.5	21.6	290
I383631		0.16	0.86	0.40	0.1	0.005	0.14	1.6	9.0	11.85	85	5.33	0.02	0.7	6.0	40



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Account: RCM

Project: Rau - Kathy

CERTIFICATE OF ANALYSIS WH11175140

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
I383596		156.5	4.1	<0.002	0.01	3.02	1.0	1	1.8	59.8	0.09	<0.05	0.4	0.033	0.14	1.5
I383597		338	14.4	<0.002	0.01	7.28	2.9	2	3.5	44.0	0.29	0.05	1.2	0.112	0.39	2.1
I383598		556	38.0	<0.002	0.01	10.45	7.2	2	4.5	74.9	0.73	0.07	2.3	0.276	0.73	2.1
I383599		19.2	2.4	<0.002	0.01	0.82	0.5	1	0.2	52.8	<0.05	<0.05	0.4	0.012	0.09	3.5
I383600		260	11.0	<0.002	0.01	6.15	2.3	2	3.6	50.7	0.22	<0.05	0.9	0.088	0.35	2.1
I383601		116.0	5.8	<0.002	0.01	2.50	1.2	2	1.1	64.2	0.12	<0.05	0.5	0.045	0.21	2.4
I383602		31.3	3.0	<0.002	0.01	1.00	0.6	2	0.3	66.4	0.05	<0.05	0.3	0.018	0.09	1.8
I383603		240	15.4	<0.002	0.01	6.54	3.0	2	2.1	60.2	0.32	<0.05	1.3	0.117	0.41	2.6
I383604		36.0	2.7	<0.002	0.01	1.34	0.6	1	0.3	68.7	0.05	<0.05	0.3	0.020	0.07	2.1
I383605		78.8	4.2	<0.002	0.01	1.87	1.0	1	0.5	66.4	0.08	<0.05	0.4	0.031	0.12	1.9
I383606		>10000	42.6	<0.002	0.39	82.1	10.5	6	22.7	435	0.68	1.06	2.9	0.274	1.62	14.5
I383607		2100	14.1	<0.002	0.03	80.1	21.4	3	3.2	9.2	0.22	0.11	2.5	0.098	0.68	48.5
I383608		1160	46.5	<0.002	0.03	22.5	13.0	4	5.5	15.7	0.56	0.44	4.4	0.264	1.39	26.9
I383609		893	49.0	<0.002	0.03	16.40	11.9	2	7.2	17.5	0.75	0.20	3.7	0.289	1.13	12.8
I383610		1320	59.5	<0.002	0.02	27.5	12.6	2	18.4	17.8	0.84	0.33	4.2	0.353	1.45	8.2
I383611		6.1	1.5	<0.002	0.01	0.13	0.3	1	<0.2	50.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.7
I383612		1260	42.6	<0.002	0.03	32.5	10.0	2	12.0	19.7	0.69	0.31	3.6	0.274	1.19	5.5
I383613		219	80.2	0.002	1.42	180.5	24.6	2	3.0	130.0	0.33	1.34	5.2	0.234	0.88	1.7
I383614		1620	47.7	<0.002	0.05	52.6	10.5	2	26.5	13.8	0.57	0.72	3.8	0.296	1.14	5.6
I383615		943	30.1	<0.002	0.02	14.95	7.1	2	6.7	25.7	0.54	0.18	2.3	0.210	0.78	4.3
I383616		7.2	1590	<0.002	0.03	0.94	9.0	1	1.1	61.5	0.35	<0.05	0.6	0.254	13.95	0.3
I383617		3490	15.2	<0.002	0.04	33.4	4.1	2	13.4	35.0	0.25	0.41	1.3	0.094	0.50	5.0
I383618		5.9	1.9	<0.002	0.01	0.12	0.3	<1	<0.2	49.6	<0.05	<0.05	<0.2	<0.005	<0.02	0.8
I383619		1800	3.4	<0.002	0.02	11.85	1.2	1	8.7	17.6	0.05	0.13	0.4	0.016	0.20	1.7
I383620		>10000	11.5	<0.002	0.21	100.0	3.0	3	21.0	184.5	0.16	0.30	1.3	0.055	0.81	7.2
I383621		133.0	3.0	<0.002	0.01	1.84	0.7	1	1.0	78.3	<0.05	<0.05	0.2	0.008	0.07	1.3
I383622		154.5	3.1	<0.002	0.01	2.12	0.7	1	1.3	81.9	<0.05	<0.05	0.2	0.009	0.06	1.4
I383623		32.9	3.3	<0.002	0.02	1.00	0.7	1	0.5	65.5	<0.05	<0.05	0.4	0.014	0.11	2.3
I383624		536	16.6	<0.002	0.01	7.21	3.2	2	4.7	59.3	0.36	0.05	1.6	0.106	1.10	3.8
I383625		33.9	132.5	0.003	0.38	1.33	0.3	1	3.3	116.0	3.31	<0.05	0.5	<0.005	0.59	3.5
I383626		55.1	790	0.004	0.96	8.24	5.3	2	252	21.8	>100	0.05	19.4	<0.005	3.64	5.4
I383627		9.8	16.1	0.007	0.11	0.76	0.4	1	5.7	166.5	0.52	<0.05	0.4	0.007	0.26	4.7
I383628		4.8	18.8	0.006	0.05	0.13	0.4	1	1.1	130.0	0.10	<0.05	0.2	0.007	0.29	6.6
I383629		5.3	221	0.027	0.11	0.08	1.6	2	12.3	195.5	4.17	<0.05	0.9	0.016	1.53	7.4
I383630		6.6	195.5	0.015	0.14	0.25	1.4	1	23.7	27.7	1.65	<0.05	0.6	0.025	0.94	5.7
I383631		1.5	36.3	0.015	0.09	0.07	0.7	1	1.1	139.5	0.06	<0.05	0.4	0.010	0.73	6.0



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Finalized Date: 24- SEP- 2011
Account: RCM

Project: Rau - Kathy

CERTIFICATE OF ANALYSIS WH11175140

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Pb- OG62 Pb % 0.001	Zn- OG62 Zn % 0.001
I383596		19	5.8	2.6	294	6.3		
I383597		34	15.2	8.7	1320	19.1		
I383598		73	29.1	17.9	1510	35.7		
I383599		20	0.6	2.4	134	3.6		
I383600		33	7.9	5.1	416	16.4		
I383601		27	2.9	2.9	177	7.8		
I383602		27	0.8	1.4	89	4.1		
I383603		46	7.0	6.4	469	20.8		
I383604		22	1.1	1.6	100	4.2		
I383605		26	2.3	1.8	157	5.6		
I383606		139	57.6	15.1	6190	26.7	1.230	
I383607		117	148.0	10.8	7060	21.1		
I383608		125	30.8	21.0	3600	40.9		
I383609		107	24.7	19.0	2890	41.8		
I383610		126	38.9	23.0	3850	43.0		
I383611		2	0.2	0.9	29	0.5		
I383612		94	36.2	21.4	4630	41.6		
I383613		147	37.6	14.5	366	248		
I383614		115	44.7	26.1	5400	43.4		
I383615		74	24.4	19.1	4240	32.5		
I383616		57	0.4	8.9	37	33.8		
I383617		50	23.3	17.4	9000	17.6		
I383618		2	0.2	1.0	28	<0.5		
I383619		17	4.7	6.5	4710	5.2		
I383620		49	20.7	18.9	>10000	12.0	1.390	1.940
I383621		10	1.4	1.7	451	2.0		
I383622		11	1.5	1.8	478	2.0		
I383623		8	1.8	1.9	117	4.5		
I383624		38	12.3	8.6	1280	23.7		
I383625		4	0.8	2.2	139	1.8		
I383626		1	8.7	8.4	690	7.9		
I383627		2	1.7	2.7	135	2.0		
I383628		7	0.5	1.4	14	1.7		
I383629		37	80.1	13.0	68	6.1		
I383630		55	1010	13.5	209	10.3		
I383631		7	2.1	1.3	4	3.5		



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CERTIFICATE OF ANALYSIS WH11175140

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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Finalized Date: 23- OCT- 2011
Account: RCM

CERTIFICATE WH11203943

Project: Rau - PUMA

P.O. No.: Batch 25 - Area J

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- OCT- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rau - PUMA

CERTIFICATE OF ANALYSIS WH11203943

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
I383416		0.04
I383417		0.02
I383418		0.01
I383419		0.01
I383420		0.01
I383421		0.03
I383422		<0.01
I383423		<0.01
I383424		0.01
I383425		<0.01
I383426		<0.01
I383427		<0.01
I383428		0.01
I383429		0.15
I383430		0.03
I383431		0.01
I383432		0.18
I383433		<0.01
I383434		2.97
I383435		0.03
I383436		0.01
I383437		0.01
I383438		<0.01
I383439		0.01
I383440		<0.01
I383441		0.01
I383442		<0.01
I383443		0.01
I383444		0.09
I383445		<0.01
I383446		0.04
I383447		0.04
I383448		<0.01
I383449		0.33
I383450		<0.01
I383451		0.03



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CERTIFICATE WH11203944

Project: Rau - Kathy

P.O. No.: Batch 30 - Area I

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- OCT- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rau - Kathy

CERTIFICATE OF ANALYSIS WH11203944

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
I383596		0.02
I383597		0.10
I383598		0.04
I383599		<0.01
I383600		0.06
I383601		0.02
I383602		0.01
I383603		0.03
I383604		0.02
I383605		0.02
I383606		0.98
I383607		2.73
I383608		1.60
I383609		0.36
I383610		0.88
I383611		<0.01
I383612		0.80
I383613		2.92
I383614		0.54
I383615		0.38
I383616		8.42
I383617		0.79
I383618		<0.01
I383619		0.33
I383620		0.59
I383621		0.02
I383622		0.02
I383623		<0.01
I383624		0.01
I383625		<0.01
I383626		0.03
I383627		0.12
I383628		<0.01
I383629		<0.01
I383630		<0.01
I383631		<0.01



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CERTIFICATE WH11203945

Project: Rau - Kathy

P.O. No.: Batch 31 - Area I

This report is for 14 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- OCT- 2011.

The following have access to data associated with this certificate:

ROB CARNE
JULIA LANE

ANDREW CARNE
JOAN MARIACHER

MATT DUMALA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: MATT DUMALA
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11203945

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
I383632		<0.01
I383633		<0.01
I383634		<0.01
I383635		<0.01
I383636		<0.01
I383637		<0.01
I383638		<0.01
I383639		<0.01
I383640		0.43
I383641		0.11
I383642		0.13
I383643		<0.01
I383644		<0.01
I383645		<0.01

APPENDIX IV
STANDARD SAMPLE CERTIFICATES

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G306-1

Certified Control Values

50 gram Fire Assay

Gold Grade	0.41 ppm
Standard Deviation	0.03 ppm
Confidence Interval	+/- 0.006 ppm

Aqua Regia Digest

Gold Grade	0.41 ppm
Standard Deviation	0.05 ppm
Confidence Interval	+/- 0.016 ppm

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the :

<u>April-2006</u>	Geostats Pty Ltd Laboratory Round Robin Program.
<u>85</u>	laboratories tested this material using 50 gram Fire Assay.
<u>39</u>	laboratories tested it using an Aqua Regia Technique.
<u>1</u>	laboratories tested this material using Neutron Activation Analysis.

Source Material

Prior to homogenisation and testing, this material was sourced from
Cut-off Ore Oxide Material

Colour Designation

Grayish pink

Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

All standards are dried in an oven for a minimum of 12 hours at 110C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an Air Classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.

Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

Assay Testwork

All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.

Neutron Activation Analysis Results (ppm)

Antimony	0.70
Arsenic	-0.50
Barium	82.00
Bromine	0.60
Cadmium	nr
Cerium	19.00
Caesium	22.00
Chromium	37.00
Cobalt	10.00
Europium	0.50
Gold ppb	420.00
Hafnium	7.00
Iridium ppb	-5.00
Iron %	2.02
Lanthanum	10.00
Lutetium	0.14
Molybdenum	9.00
Nickel	-100.00
Rubidium	780.00
Samarium	1.80
Scandium	6.90
Selenium	-3.00
Sodium %	1.33
Tantalum	1.50
Tellurium	nr
Terbium	-0.50
Thorium	1.20
Tin	-100.00
Tungsten	-1.00
Uranium	0.90
Ytterbium	1.00
Zinc	-50.00
Zirconium	nr
Calcium%	nr
Potassium %	nr
Silver	6.00
Mercury	nr
Neodymium	nr
Strontium	nr

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G306-1

Geostats Pty Ltd, Certified Gold Reference Material, Product Code :

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G399-2

Certified Control Values

50 gram Fire Assay

Gold Grade	1.46 ppm
Standard Deviation	0.09 ppm
Confidence Interval	+/- 0.018 ppm

Aqua Regia Digest

Gold Grade	1.44 ppm
Standard Deviation	0.09 ppm
Confidence Interval	+/- 0.022 ppm

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the :

<u>April-1999</u>	Geostats Pty Ltd Laboratory Round Robin Program.
<u>100</u>	laboratories tested this material using 50 gram Fire Assay.
<u>66</u>	laboratories tested it using an Aqua Regia Technique.
<u>1</u>	laboratories tested this material using Neutron Activation Analysis.

Source Material

Prior to homogenisation and testing, this material was sourced from Oxides in the Kalgoorlie Region

Colour Designation

Pinkish gray

Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

All standards are dried in an oven for a minimum of 12 hours at 110C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an Air Classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.

Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

Assay Testwork

All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.

Neutron Activation Analysis Results (ppm)

Antimony	2.59
Arsenic	73.19
Barium	125.70
Bromine	-1.00
Cadmium	nr
Cerium	14.83
Caesium	26.10
Chromium	241.30
Cobalt	23.43
Europium	-0.50
Gold ppb	1430.00
Hafnium	13.87
Iridium ppb	-20.00
Iron %	1.98
Lanthanum	7.71
Lutetium	-0.20
Molybdenum	-5.00
Nickel	nr
Rubidium	968.40
Samarium	1.20
Scandium	3.32
Selenium	-5.00
Sodium %	1.30
Tantalum	2.41
Tellurium	-5.00
Terbium	nr
Thorium	2.20
Tin	nr
Tungsten	9.28
Uranium	-2.00
Ytterbium	0.73
Zinc	171.70
Zirconium	738.80
Calcium%	-1.00
Potassium %	3.60
Silver	-5.00
Mercury	nr
Neodymium	nr
Strontium	nr

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G399-2

Geostats Pty Ltd, Certified Gold Reference Material, Product Code :

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G399-4

Certified Control Values

50 gram Fire Assay

Gold Grade	4.78 ppm
Standard Deviation	0.21 ppm
Confidence Interval	+/- 0.043 ppm

Aqua Regia Digest

Gold Grade	4.61 ppm
Standard Deviation	0.22 ppm
Confidence Interval	+/- 0.054 ppm

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the :

<u>April-1999</u>	Geostats Pty Ltd Laboratory Round Robin Program.
<u>96</u>	laboratories tested this material using 50 gram Fire Assay.
<u>66</u>	laboratories tested it using an Aqua Regia Technique.
<u>1</u>	laboratories tested this material using Neutron Activation Analysis.

Source Material

Prior to homogenisation and testing, this material was sourced from
Composite Transition ores in the Eastern Goldfields

Colour Designation

Pale yellowish brown

Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

All standards are dried in an oven for a minimum of 12 hours at 110C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an Air Classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.

Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

Assay Testwork

All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.

Neutron Activation Analysis Results (ppm)

Antimony	5.22
Arsenic	436.67
Barium	-100.00
Bromine	2.11
Cadmium	nr
Cerium	36.17
Caesium	8.16
Chromium	339.30
Cobalt	115.35
Europium	0.63
Gold ppb	4997.00
Hafnium	14.90
Iridium ppb	-20.00
Iron %	5.87
Lanthanum	18.34
Lutetium	0.23
Molybdenum	-5.00
Nickel	nr
Rubidium	257.90
Samarium	3.08
Scandium	11.53
Selenium	-5.00
Sodium %	0.90
Tantalum	2.12
Tellurium	-5.00
Terbium	nr
Thorium	5.98
Tin	nr
Tungsten	51.15
Uranium	-2.00
Ytterbium	1.51
Zinc	319.30
Zirconium	771.10
Calcium%	1.90
Potassium %	1.14
Silver	-5.00
Mercury	nr
Neodymium	nr
Strontium	nr

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G399-4

Geostats Pty Ltd, Certified Gold Reference Material, Product Code :

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G306-3

Certified Control Values

50 gram Fire Assay

Gold Grade	8.66 ppm
Standard Deviation	0.33 ppm
Confidence Interval	+/- 0.047 ppm

Aqua Regia Digest

Gold Grade	8.60 ppm
Standard Deviation	0.52 ppm
Confidence Interval	+/- 0.113 ppm

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the :

<u>October-2006</u>	Geostats Pty Ltd Laboratory Round Robin Program.
<u>191</u>	laboratories tested this material using 50 gram Fire Assay.
<u>84</u>	laboratories tested it using an Aqua Regia Technique.
<u>1</u>	laboratories tested this material using Neutron Activation Analysis.

Source Material

Prior to homogenisation and testing, this material was sourced from
High Grade oxide ore

Colour Designation

Pale red

Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

All standards are dried in an oven for a minimum of 12 hours at 110C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an Air Classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.

Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

Assay Testwork

All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.

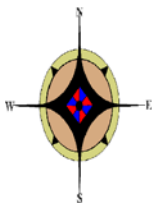
Neutron Activation Analysis Results (ppm)

Antimony	0.81
Arsenic	6.79
Barium	52.50
Bromine	0.24
Cadmium	nr
Cerium	4.00
Caesium	62.55
Chromium	49.90
Cobalt	11.05
Europium	-0.40
Gold ppb	9450.00
Hafnium	0.64
Iridium ppb	-12.20
Iron %	2.09
Lanthanum	2.33
Lutetium	0.14
Molybdenum	21.70
Nickel	-100.00
Rubidium	1615.00
Samarium	1.26
Scandium	7.13
Selenium	-4.49
Sodium %	1.22
Tantalum	-0.50
Tellurium	nr
Terbium	-0.50
Thorium	-0.25
Tin	-100.00
Tungsten	-1.00
Uranium	-0.50
Ytterbium	0.60
Zinc	-50.00
Zirconium	nr
Calcium%	nr
Potassium %	nr
Silver	26.60
Mercury	nr
Neodymium	-7.64
Strontium	-11.90

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G306-3

Geostats Pty Ltd, Certified Gold Reference Material, Product Code :



SMEE & ASSOCIATES CONSULTING LTD.
CONSULTING GEOCHEMISTRY / GEOLOGY

Certificate of Analysis

RAU Standard 2010 A

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	0.437 g/t	0.048 g/t

Means and standard deviations were calculated from data supplied by six laboratories using a fire assay, ICP-ES finish.

The participating laboratories were:

ALS Chemex, Vancouver
Acme, Vancouver
Actlabs, Ancaster
IPL, Vancouver
TSL, Saskatoon
Ecotech, Kamloops

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. This was done by using a Student's t test of means where a laboratory was removed from the data base if failing the t test. The means and standard deviations from the remaining data were calculated. Any analysis that fell outside of the mean $\pm$ 2SD was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data (shown as the 1st Iteration in the attached Excel spreadsheets). The final standard deviation is known as the "Between Lab" deviation, and can be used to monitor accuracy of a single analysis.

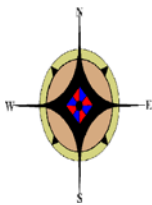
Elements are certified if the Relative Standard Deviation (RSD) is near 5 % or less. Elements that have a RSD of between 5 % and 15 % are given a Provisional mean and elements that have a RSD of more than 15 %, or have insufficient data are not certified but given an Indicated Mean.

The bulk standards were prepared and packaged by CDN Labs of Langley B.C. Each bulk sample was pulverized in a large rod mill, screened through 270 mesh using an electric sieve, and homogenized in a large rotating mixer.

Certified by:

A handwritten signature in black ink, appearing to read 'B.W. Smee'.

Barry W. Smee, Ph.D., P.Geo.



SMEE & ASSOCIATES CONSULTING LTD.
CONSULTING GEOCHEMISTRY / GEOLOGY

Certificate of Analysis

RAU Standard 2010 B

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	1.83 g/t	0.21 g/t

Means and standard deviations were calculated from data supplied by six laboratories using a fire assay, ICP-ES finish.

The participating laboratories were:

ALS Chemex, Vancouver
Acme, Vancouver
Actlabs, Ancaster
IPL, Vancouver
TSL, Saskatoon
Ecotech, Kamloops

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. This was done by using a Student's t test of means where a laboratory was removed from the data base if failing the t test. The means and standard deviations from the remaining data were calculated. Any analysis that fell outside of the mean $\pm$ 2SD was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data (shown as the 1st Iteration in the attached Excel spreadsheets). The final standard deviation is known as the "Between Lab" deviation, and can be used to monitor accuracy of a single analysis.

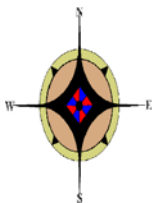
Elements are certified if the Relative Standard Deviation (RSD) is near 5 % or less. Elements that have a RSD of between 5 % and 15 % are given a Provisional mean and elements that have a RSD of more than 15 %, or have insufficient data are not certified but given an Indicated Mean.

The bulk standards were prepared and packaged by CDN Labs of Langley B.C. Each bulk sample was pulverized in a large rod mill, screened through 270 mesh using an electric sieve, and homogenized in a large rotating mixer.

Certified by:

A handwritten signature in black ink, appearing to read "B.W. Smee". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Barry W. Smee, Ph.D., P.Geo.



SMEE & ASSOCIATES CONSULTING LTD.
CONSULTING GEOCHEMISTRY / GEOLOGY

Certificate of Analysis

RAU Standard 2010 C

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	3.83 g/t	0.33 g/t

Means and standard deviations were calculated from data supplied by six laboratories using a fire assay, ICP-ES finish.

The participating laboratories were:

ALS Chemex, Vancouver
Acme, Vancouver
Actlabs, Ancaster
IPL, Vancouver
TSL, Saskatoon
Ecotech, Kamloops

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. This was done by using a Student's t test of means where a laboratory was removed from the data base if failing the t test. The means and standard deviations from the remaining data were calculated. Any analysis that fell outside of the mean $\pm$ 2SD was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data (shown as the 1st Iteration in the attached Excel spreadsheets). The final standard deviation is known as the "Between Lab" deviation, and can be used to monitor accuracy of a single analysis.

Elements are certified if the Relative Standard Deviation (RSD) is near 5 % or less. Elements that have a RSD of between 5 % and 15 % are given a Provisional mean and elements that have a RSD of more than 15 %, or have insufficient data are not certified but given an Indicated Mean.

The bulk standards were prepared and packaged by CDN Labs of Langley B.C. Each bulk sample was pulverized in a large rod mill, screened through 270 mesh using an electric sieve, and homogenized in a large rotating mixer.

Certified by:

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Barry W. Smee, Ph.D., P.Geo.