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ASSESSMENT REPORT

describing

GEOLOGICAL MAPPING, PROSPECTING, SOIL GEOCHEMISTRY AND DIAMOND DRILLING

at the

RAU PROPERTY

Rau 1-64	YC50268-YC50331
65-96	YC57529-YC57560
97F-98F	YC69925-YC69926
99F-100F	YC69961-YC69962
GF 3-4	YC32305-YC32306
Q 1-13	YC92361-YC92373
14	YC92470
15-109	YC92375-YC92469
R 1-103	YC68334-YC68436
105-1295	YC68438-YC69628
1296-1337	YC70595-YC70636
S 1-700	YC90801-YC91500
701-1154	YC91901-YC92354

NTS 105M/15, 106C/04, 106D/01, 02, 03, 06, 07 & 08
Latitude 64°11´N; Longitude 134°22´W

in the
Mayo Mining District,
Yukon Territory

prepared by
Archer, Cathro & Associates (1981) Limited

for
ATAC RESOURCES LTD.

by
Matthew R. Dumala, P.Eng. and Julia Lane, B.Sc.
March 2010

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36	Section 10+040NW – Tiger Zone	in pocket
37	Section 10+080NW – Tiger Zone	in pocket
38	Section 10+120NW – Tiger Zone	in pocket
39	Section 10+160NW – Tiger Zone	in pocket
40	Section 10+200NW – Tiger Zone	in pocket

41	Section 10+250NW – Tiger Zone	in pocket
42	Section 10+300NW – Tiger Zone	in pocket
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INTRODUCTION

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

This report describes an exploration program that was conducted on the majority of the claims comprising the property between June 4 and October 17, 2009 by Archer, Cathro & Associates (1981) Limited on behalf of ATAC. The authors participated in and supervised that program, which consisted of geological mapping, prospecting, soil geochemical sampling, stream sediment sampling, ground geophysical surveys and 9578.30 m of diamond drilling in 58 holes. The authors' Statement of Qualifications appears in Appendix I.

PROPERTY LOCATION, CLAIM DATA, ACCESS AND INFRASTRUTURE

The Rau property consists of 2701 contiguous mineral claims which are located in central Yukon at latitude 64°11´N and longitude 134°22´W on NTS map sheets 105M/15, 106C/04, 106D/01, 106D/02, 106D/03, 106D/06, 106D/07 & 106D/08 (Figure 1). Collectively, the property covers an area of approximately 54,807 hectares (548 km^2). The claims are all registered with the Mayo Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Specifics concerning claim registration are tabulated below while the locations of individual claims are shown on Figures 2 through 5.

Claim Name	Grant Number	Expiry Date*
Rau 1-64	YC50268-YC50331	April 28, 2024
65-96	YC57529-YC57560	April 28, 2017
97F-98F	YC69925-YC69926	April 28, 2018
99F-100F	YC69961-YC69962	April 28, 2018
GF 3-4	YC32305-YC32306	April 28, 2018
Q 1-13	YC92361-YC92373	April 28, 2015
14	YC92470	April 28, 2015
15-109	YC92375-YC92469	April 28, 2015
R 1-103	YC68334-YC68436	April 28, 2017
105-1295	YC68438-YC69628	April 28, 2017
1296-1337	YC70595-YC70636	April 28, 2014
S 1-700	YC90801-YC91500	April 28, 2015
701-1154	YC91901-YC92354	April 28, 2015

* Expiry dates include 2009 work which has been filed for assessment credit but not yet accepted.

The property lies 100 km northeast of Mayo, the nearest supply centre. The closest road access is to the community of Keno City, situated about 49 km by road northeast of Mayo and 55 km by air southwest of the property. Mayo and Keno City can be reached in all seasons by two wheel drive vehicles using the Yukon highway system. The Wind River trail is also accessible via the

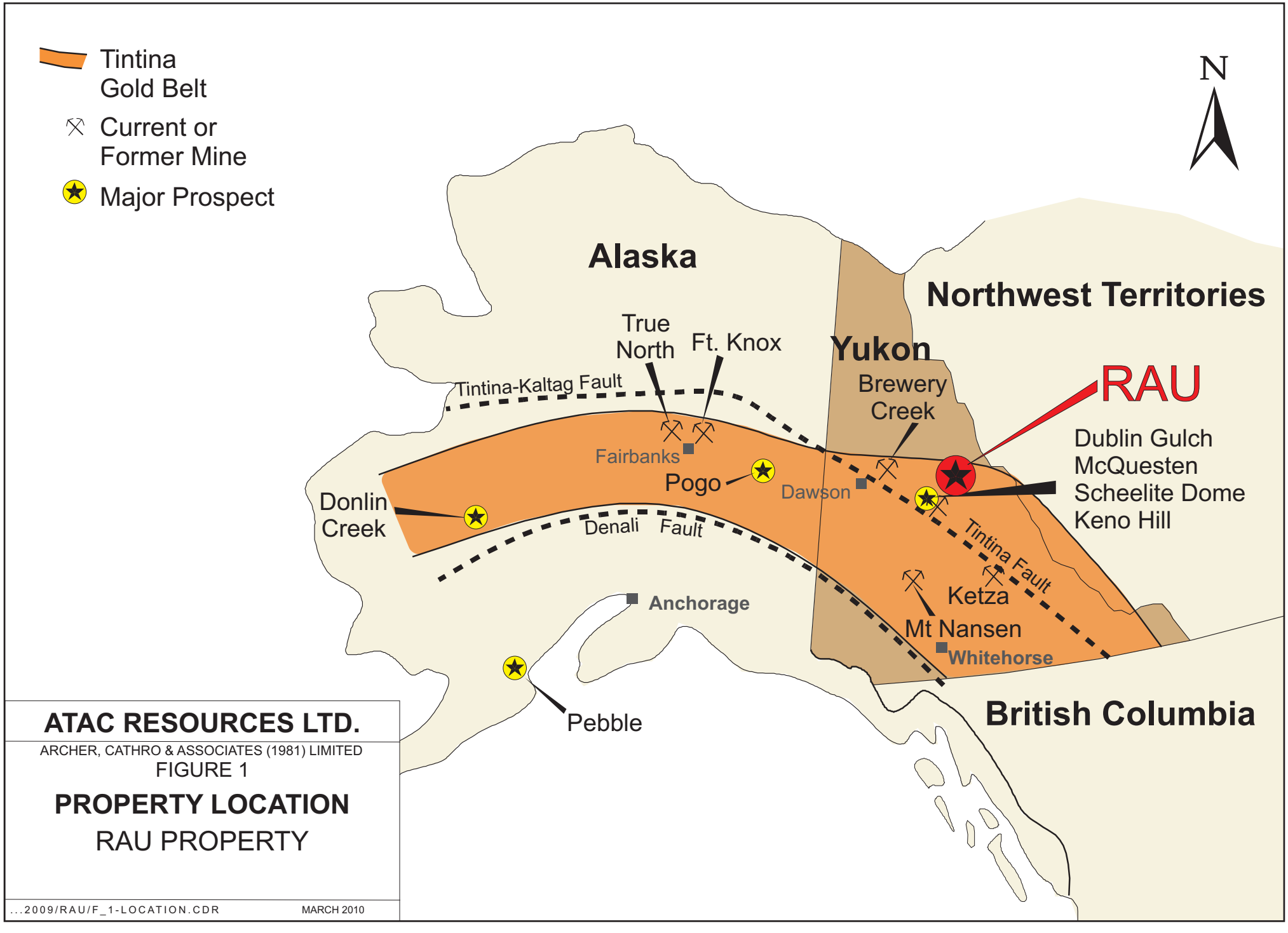

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FIGURE 1

PROPERTY LOCATION

RAU PROPERTY

...2009/RAU/F_1-LOCATION.CDR MARCH 2010

T.N.
40°
24°00'
Grid north
Magnetic north
Annual change decreasing 26.6'

7,130,000 mN
7,120,000 mN
7,110,000 mN
5,10,000 mE
5,20,000 mE
5,30,000 mE

Wind River Winter Trail
Beaver River
Kathleen Lakes
Blue Lily
Chetan
Puma
Cougar
Lynx
Woodland Caribou
Caribou
Rocky Mountain Goat
Rocky Mountain Sheep
Grizzly Bear
Black Bear
Wolverine
Lake
Fisher
Racchia River

FIGURE 3
FIGURE 2
FIGURE 5
FIGURE 4
106D06
106D07
106D08
106C05
106D03
106D02
106D01
106C04
0 10 20 km

- Showing location
- Geographic location
- Claim number
- Grant number
- First Nations A Land
- First Nations B Land

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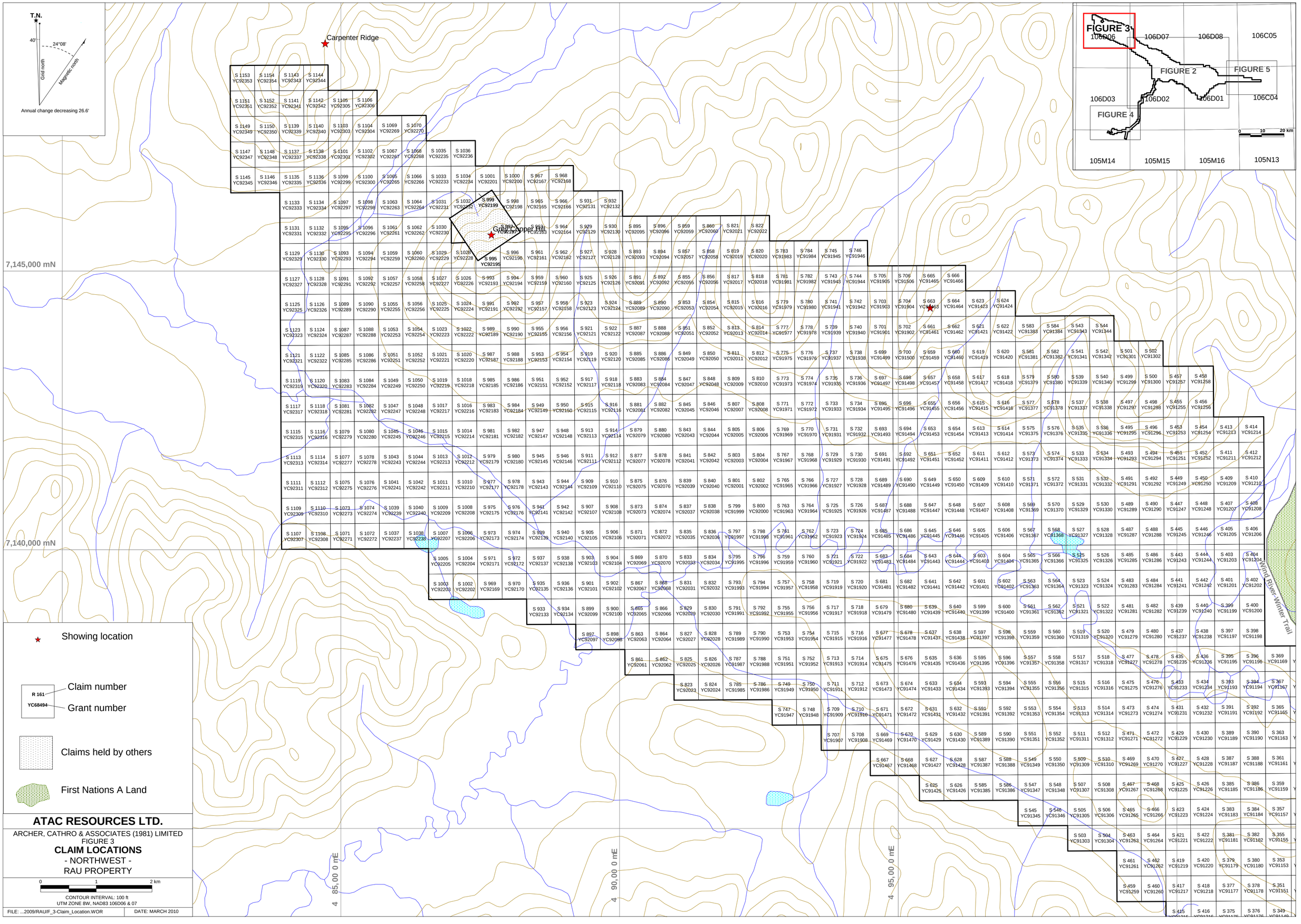
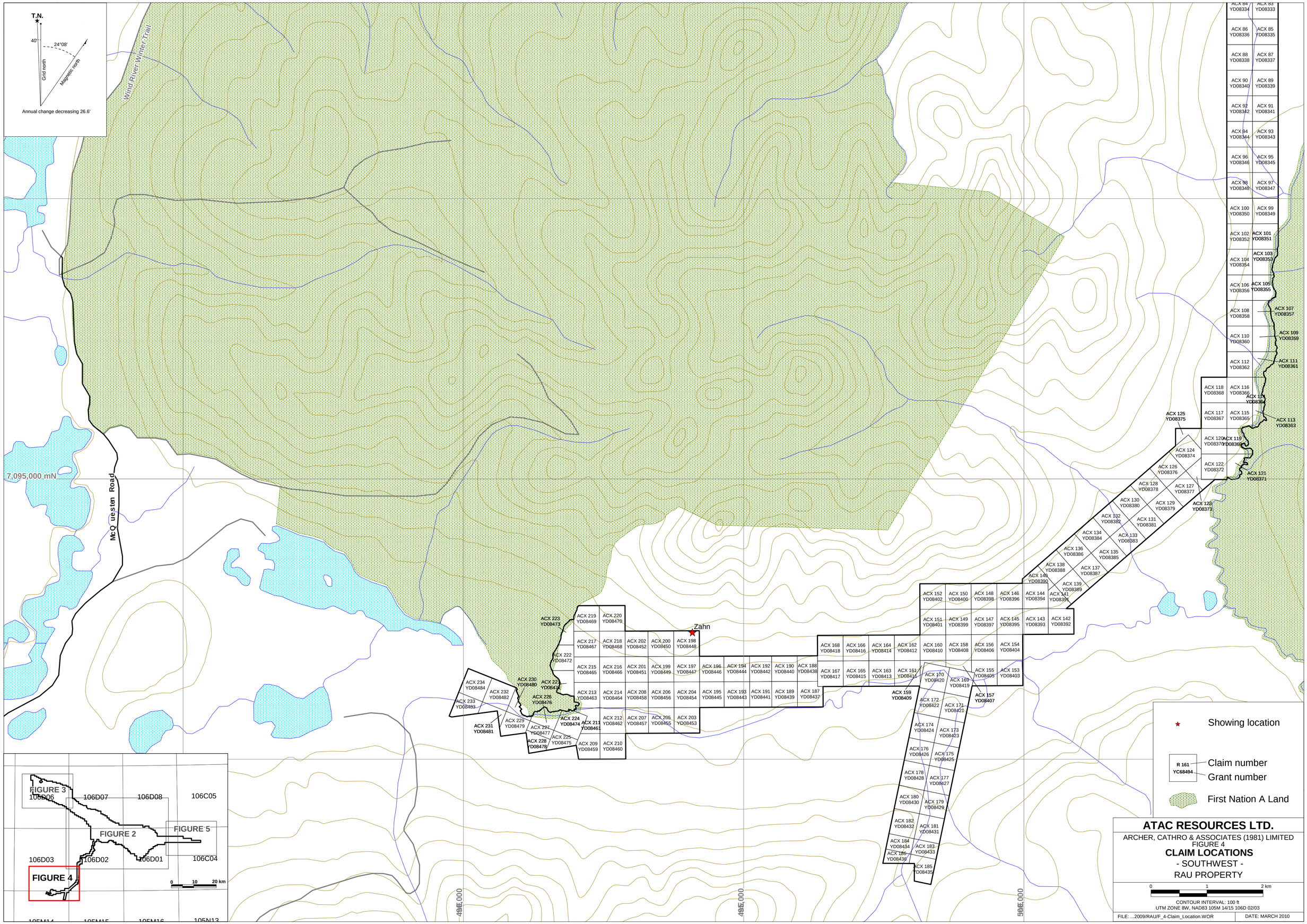
FIGURE 2
CLAIM LOCATIONS
- MAIN -
RAU PROPERTY
0 1 2 3 km
CONTOUR INTERVAL: 100 ft
UTM ZONE 8W, NAD 83, 1090D1, 03, 07 & 08
FILE: ...\2009\RAU\R_2-Claim_Location.WOR
DATE: MARCH 2010


T.N.
40°
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'
Carpenter Ridge
Grew Upper Fall
7,145,000 mN
7,140,000 mN
4 85,00 0 mE
4 90,00 0 mE
4 95,00 0 mE
Wind River-Winter Trail
FIGURE 3
106D06
106D07
106D08
106C05
FIGURE 2
FIGURE 5
106D03
106D02
106D01
106C04
FIGURE 4
0 10 20 km
105M14
105M15
105M16
105N13
Showing location
R 161
YC68494
Claim number
Grant number
Claims held by others
First Nations A Land
ATAC RESOURCES LTD.
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 3
CLAIM LOCATIONS
- NORTHWEST -
RAU PROPERTY
0 1 2 km
CONTOUR INTERVAL: 100 ft
UTM ZONE 8W, NAD83 106D06 & 07
FILE: ...2009/RAU/F_3-Claim_Location.WOR
DATE: MARCH 2010


T.N.
40°
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'
Wind River Winter Trail
McQueen Road
7,095,000 mN
Zahn
ACX 84 YD08334
ACX 83 YD08333
ACX 86 YD08336
ACX 85 YD08335
ACX 88 YD08338
ACX 87 YD08337
ACX 90 YD08340
ACX 89 YD08339
ACX 92 YD08342
ACX 91 YD08341
ACX 94 YD08344
ACX 93 YD08343
ACX 96 YD08346
ACX 95 YD08345
ACX 98 YD08348
ACX 97 YD08347
ACX 100 YD08350
ACX 99 YD08349
ACX 102 YD08352
ACX 101 YD08351
ACX 104 YD08354
ACX 103 YD08353
ACX 106 YD08356
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ACX 135 YD08385
ACX 138 YD08388
ACX 137 YD08387
ACX 140 YD08390
ACX 139 YD08389
ACX 141 YD08391
ACX 142 YD08392
ACX 143 YD08393
ACX 145 YD08395
ACX 147 YD08397
ACX 149 YD08399
ACX 151 YD08401
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ACX 183 YD08433
ACX 184 YD08434
ACX 185 YD08435
ACX 186 YD08436
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ACX 189 YD08439
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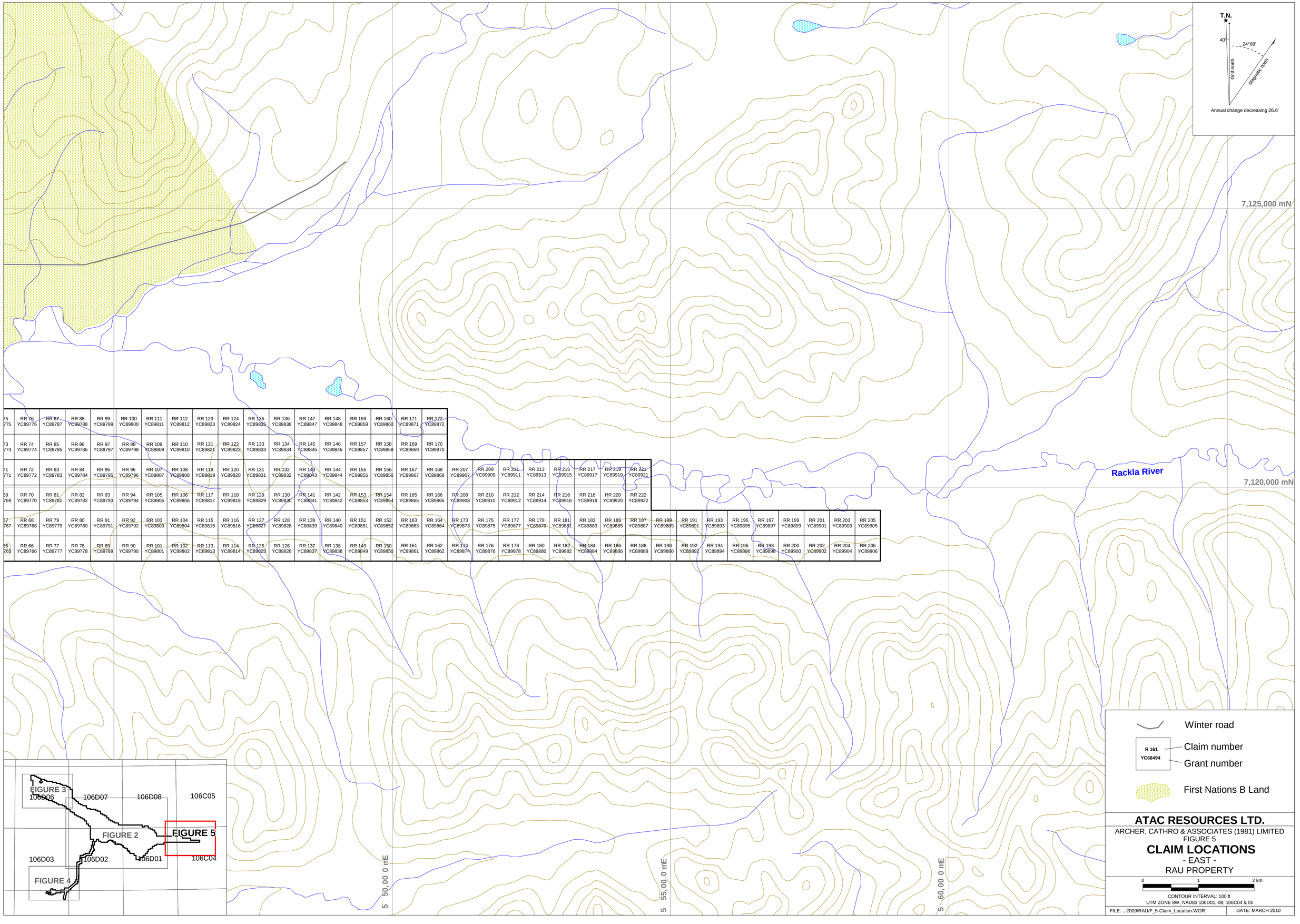
ACX 201 YD08451
ACX 202 YD08452
ACX 203 YD08453
ACX 205 YD08455
ACX 204 YD08454
ACX 206 YD08456
ACX 207 YD08457
ACX 208 YD08458
ACX 209 YD08459
ACX 210 YD08460
ACX 211 YD08461
ACX 212 YD08462
ACX 213 YD08463
ACX 214 YD08464
ACX 215 YD08465
ACX 216 YD08466
ACX 217 YD08467
ACX 218 YD08468
ACX 219 YD08469
ACX 220 YD08470
ACX 222 YD08472
ACX 223 YD08473
ACX 224 YD08474
ACX 225 YD08475
ACX 226 YD08476
ACX 227 YD08477
ACX 228 YD08478
ACX 229 YD08479
ACX 230 YD08480
ACX 231 YD08481
ACX 232 YD08482
ACX 233 YD08483
ACX 234 YD08484
FIGURE 3
FIGURE 2
FIGURE 5
FIGURE 4
106D06
106D07
106D08
106C05
106D03
106D02
106D01
106C04
105M14
105M15
105M16
105N13
0 10 20 km
Showing location
R 161 YC68494
Claim number
Grant number
First Nation A Land
ATAC RESOURCES LTD.
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 4
CLAIM LOCATIONS
- SOUTHWEST -
RAU PROPERTY
0 1 2 km
CONTOUR INTERVAL: 100 ft
UTM ZONE 8W, NAD83 105M 14/15 106D 02/03
FILE: ...2009/RAU/F_4-Claim_Location.WOR
DATE: MARCH 2010



75 775	RR 76 YC89776	RR 87 YC89787	RR 88 YC89788	RR 99 YC89799	RR 100 YC89800	RR 111 YC89811	RR 112 YC89812	RR 123 YC89823	RR 124 YC89824	RR 135 YC89835	RR 136 YC89836	RR 147 YC89847	RR 148 YC89848	RR 159 YC89859	RR 160 YC89860	RR 171 YC89871	RR 172 YC89872	
73 773	RR 74 YC89774	RR 85 YC89785	RR 86 YC89786	RR 97 YC89797	RR 98 YC89798	RR 109 YC89809	RR 110 YC89810	RR 121 YC89821	RR 122 YC89822	RR 133 YC89833	RR 134 YC89834	RR 145 YC89845	RR 146 YC89846	RR 157 YC89857	RR 158 YC89858	RR 169 YC89869	RR 170 YC89870	
71 771	RR 72 YC89772	RR 83 YC89783	RR 84 YC89784	RR 95 YC89795	RR 96 YC89796	RR 107 YC89807	RR 108 YC89808	RR 119 YC89819	RR 120 YC89820	RR 131 YC89831	RR 132 YC89832	RR 143 YC89843	RR 144 YC89844	RR 155 YC89855	RR 156 YC89856	RR 167 YC89867	RR 168 YC89868	RR 207 YC89907	RR 209 YC89909	RR 211 YC89911	RR 213 YC89913	RR 215 YC89915	RR 217 YC89917	RR 219 YC89919	RR 221 YC89921
69 769	RR 70 YC89770	RR 81 YC89781	RR 82 YC89782	RR 93 YC89793	RR 94 YC89794	RR 105 YC89805	RR 106 YC89806	RR 117 YC89817	RR 118 YC89818	RR 129 YC89829	RR 130 YC89830	RR 141 YC89841	RR 142 YC89842	RR 153 YC89853	RR 154 YC89854	RR 165 YC89865	RR 166 YC89866	RR 208 YC89908	RR 210 YC89910	RR 212 YC89912	RR 214 YC89914	RR 216 YC89916	RR 218 YC89918	RR 220 YC89920	RR 222 YC89922
67 767	RR 68 YC89768	RR 79 YC89779	RR 80 YC89780	RR 91 YC89791	RR 92 YC89792	RR 103 YC89803	RR 104 YC89804	RR 115 YC89815	RR 116 YC89816	RR 127 YC89827	RR 128 YC89828	RR 139 YC89839	RR 140 YC89840	RR 151 YC89851	RR 152 YC89852	RR 163 YC89863	RR 164 YC89864	RR 173 YC89873	RR 175 YC89875	RR 177 YC89877	RR 179 YC89879	RR 181 YC89881	RR 183 YC89883	RR 185 YC89885	RR 187 YC89887	RR 189 YC89889	RR 191 YC89891	RR 193 YC89893	RR 195 YC89895	RR 197 YC89897	RR 199 YC89899	RR 201 YC89901	RR 203 YC89903	RR 205 YC89905
65 765	RR 66 YC89766	RR 77 YC89777	RR 78 YC89778	RR 89 YC89789	RR 90 YC89790	RR 101 YC89801	RR 102 YC89802	RR 113 YC89813	RR 114 YC89814	RR 125 YC89825	RR 126 YC89826	RR 137 YC89837	RR 138 YC89838	RR 149 YC89849	RR 150 YC89850	RR 161 YC89861	RR 162 YC89862	RR 174 YC89874	RR 176 YC89876	RR 178 YC89878	RR 180 YC89880	RR 182 YC89882	RR 184 YC89884	RR 186 YC89886	RR 188 YC89888	RR 190 YC89890	RR 192 YC89892	RR 194 YC89894	RR 196 YC89896	RR 198 YC89898	RR 200 YC89900	RR 202 YC89902	RR 204 YC89904	RR 206 YC89906

Yukon highway system from McQuesten Lake near Keno City and crosses the western portion of the property (Figure 6). This winter trail has been used intermittently by various exploration companies since it was built in the late 1960s.

In 2009, access to the property and daily logistical support were accomplished using Bell 206L4 and Hughes 500D helicopters based on the property and operated by Fireweed Helicopters Ltd. of Whitehorse. A large clearing located at McQuesten Lake served as a staging area. If required, fixed wing aircraft can land at the Kathleen Lakes airstrip along the northeastern boundary of the property. These lakes are also suitable for float equipped aircraft.

In response to continuously encouraging drill results, a John Deer 450 bulldozer was mobilized to the property by a Bell 204 operated by Fireweed Helicopters in fall 2009. A local road system was constructed down through the main drill area and into the valley to a new camp location. The road system is accessible with the use of four wheel drive ATV from camp to the main drill area.

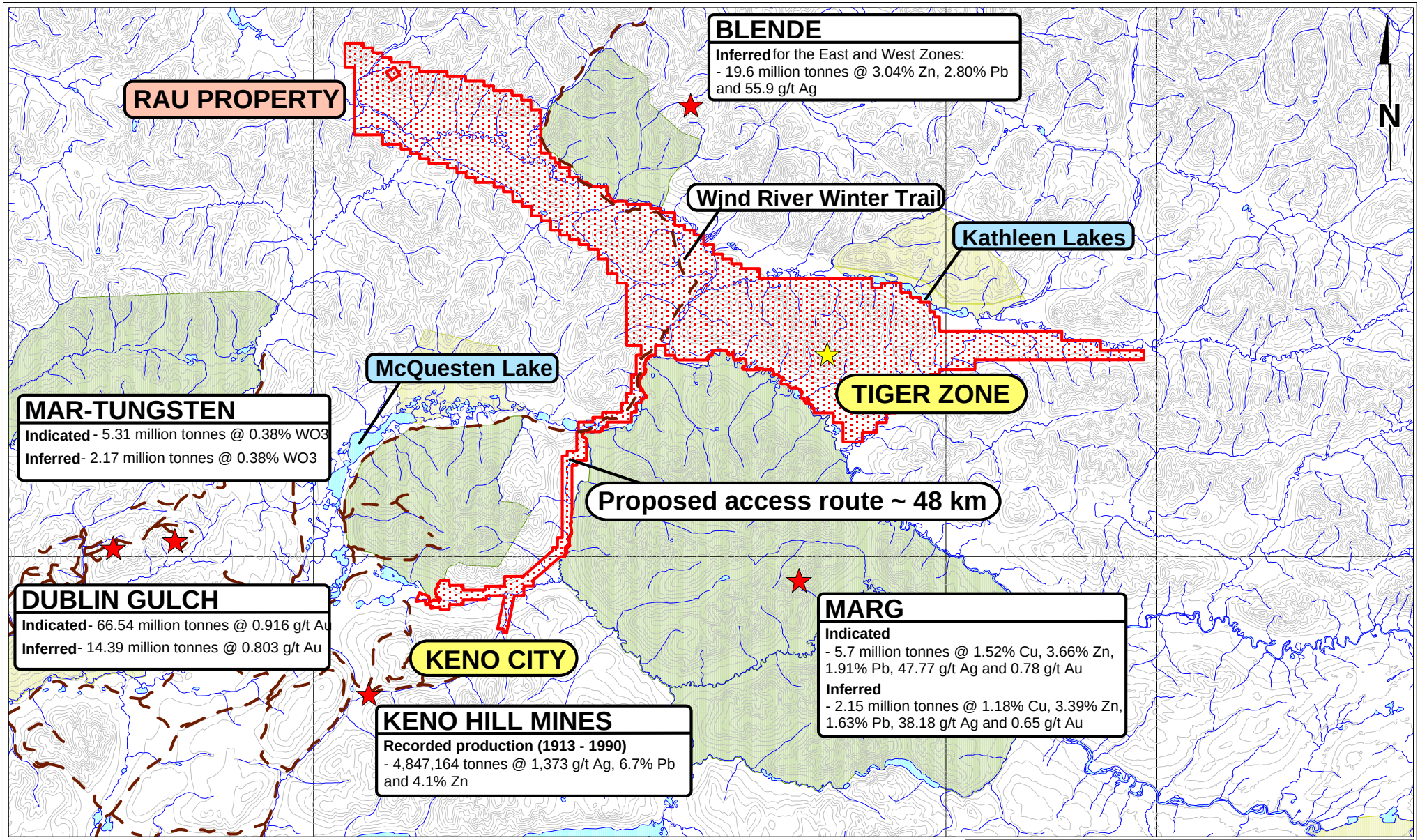
In fall 2009, additional claims were staked to cover a proposed 48 km pioneer road route connecting the property to the Yukon Highway system near McQuesten Lake. EBA Engineering Consultants Ltd. was contracted to conduct a preliminary route selection and terrain assessment. Results of this survey are contained in Appendix II.

Three separate baseline water quality surveys were completed by J. Gibson Environmental Consulting of Whitehorse in June, July and October, 2009. All three reported neutral to slightly alkaline waters and low dissolved metal contents in all streams. The results of these surveys were comparable to those obtained in 2008 (Dumala, 2009). In addition to baseline water quality surveys, a stream profile of the Beaver River at a proposed road crossing was also created by J. Gibson in July 2009. Copies of Gibson's reports can be found in Appendix III. In addition to these surveys Laberge Environmental Services commenced wildlife and benthic studies within the core portion of the claim block and along the proposed pioneer road route which appear in Appendix IV. Similarly, heritage assessment along the proposed route was conducted by Matrix Research Ltd which can be found in Appendix V.

EXPLORATION HISTORY

The approximate locations of various showings referred to in this section are shown on Figures 2 through 5.

The earliest reported exploration within the area now covered by the Rau property occurred in 1922 following the discovery of silver mineralization at Keno Hill when prospectors first identified and staked mineralized float occurrences at Carpenter Ridge in the far northwest corner of the current property. In 1924, reconnaissance work conducted by the Geological Survey of Canada discovered galena-calcite-siderite in float on the southwest end of Carpenter Ridge. A sample of this float returned 8.75 oz silver and 56.0% lead (Cockfield, 1925); however, the source of this mineralization was not found. Hand pits were dug in 1927 and 1928 but little record remains of the work completed during this period. All claims were ultimately dropped.



First Nations settlement land: Category A

First Nations settlement land: Category B

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FIGURE 6

ACCESS AND INFRASTRUCTURE

RAU PROPERTY

0 10 20 30 40 km

UTM ZONE 8W, NAD 83

FILE: ...2009\RAU\F_6-ACCESS.WOR | DATE: MARCH 2010

Nearby at Grey Copper Hill, 9 km to the southeast, silver-rich tetrahedrite float was discovered in 1923 by an independent prospector. This showing and other nearby prospects were staked later that year. Several investigatory adits were dug into the hillside during follow up exploration but eventually all claim holdings lapsed.

Between 1930 and 1974 Grey Copper Hill was staked several times by independent prospectors and exploration companies, including Cypress Resources Limited and United Keno Hill Mines Limited. Little work was reported (Hilker, 1969) and all claims ultimately expired.

Hesca Resources Corporation Ltd restaked Grey Copper Hill in 1974 and conducted prospecting, soil sampling, hand trenching and adit maintenance. In addition, two shallow, small diameter diamond drill holes totaling 56.3 m were drilled; however, the results from this drilling are not documented. No further work was done by Hesca and the claims were dropped (Deklerk and Traynor, 2004).

In spring 1978 Prism Resources Limited restaked the area and conducted prospecting and geochemical sampling later that year. Soil sampling identified several lead and silver anomalies; however, follow up prospecting failed to explain them (Sivertz, 1979). A sample collected from an outcrop of dolomite yielded 0.60% lead and 51.43 g/t silver, while a tetrahedrite sample collected near an old adit assayed 7000 g/t silver (Sivertz, 1980). Prism allowed the claims to lapse.

Grey Copper Hill was again restaked in 1983 by a prospector who conducted grid soil sampling later that year. This program delineated silver anomalies coincident with surface lineations. No further work was completed and the claims expired.

In 1988 Bonventures Limited staked the area and conducted limited blast trenching, prospecting, mapping plus soil and rock sampling. A gossan zone with pyrite and strong fracture filling malachite and azurite was identified between two collapsed adits (Carlyle, 1989). These claims eventually lapsed.

The area remained open until August of 2005 when an independent prospector staked four claims over the Grey Copper Hill showing. No work on these claims has been reported and they are now surrounded by the Rau property.

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

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

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

NDU Resources Ltd. staked claims over the Now Showing in 1987 to cover the lead, zinc and silver soil geochemical anomalies identified by Cominco and Prism. The following year, NDU conducted a geochemical sampling program which focused on the gold vein mineralization at the Now Showing (Cathro, 1989). Regional prospecting at the south end of the current proposed Rau access corridor identified a 20 cm wide vein cutting Mississippian Keno Hill quartzite that had been intruded by Mesozoic greenstone sills. Two old shafts and a collapsed adit were also located at this location, referred to as the Zahn Showing. A specimen assaying 435.4 g/t silver, 18.3% lead, and 1.4% zinc was collected but no claims were staked.

In 1977, 6.25 km further to the northwest, Prism conducted mapping, soil sampling and electromagnetic surveys. Numerous samples from that program returned high zinc-in-soil values ranging from 2100 ppm to 12.2%. One sample collected from a large transported gossan (EL Showing) yielded 3.8 g/t silver, 800 ppm lead and 12.2% zinc (Montgomery and Cavey, 1978), suggesting the metals were leached and remobilized in acidic groundwater before being reprecipitated when the fluids were neutralized. These promising results were not followed up. In 1977, Prism also performed minor soil sampling near a strong gossan developed along the eastern edge of the current Rau property (Kathy Showing) (Prism Joint Venture, 1979b).

In 1979 and 1980, Prism explored in two areas in the north central part of the current Rau property and conducted prospecting, soil geochemical sampling and one diamond drill hole. This work led to the discovery of scheelite mineralization at the Blue Lite and Flat Top Showings. Well mineralized tremolite skarn specimens from the Flat Top Showing assayed up to 8.4% WO_3, but most material graded below 0.04% (Churchill, 1980). No further work was done at either showing.

ATAC's interest in the area was prompted by an isolated, high gold value (150 ppb) reported by a regional-scale stream sediment geochemical survey, conducted by the Geological Survey of Canada (Hornbrook, et al 1990). This value is in the 99th percentile of gold results from the survey and is supported by a 99th percentile tungsten value (25 ppm). The approximate location of the anomalous sample site is shown on Figure 2.

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

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

ATAC and Yankee Hat Minerals Limited signed an option agreement in spring 2008 concerning 40 claims that covered the Rackla Pluton and the tungsten-bearing skarns. During the summer of 2008 Yankee Hat conducted prospecting and a total of 437.38 m of diamond drilling in three holes (Dumala, 2008). Several narrow skarn bands with weak to moderate tungsten mineralization were identified within the carbonate host rocks. The option agreement was terminated in late 2008 following poor results and the claims were returned to ATAC.

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

GEOMORPHOLOGY

The Rau property is roughly 180 km long and covers a diverse geomorphological setting. Much of the claim block covers low lying vegetated valley bottom and similarly covered low elevation ridge systems.

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

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

GEOLOGY

Regional Geology

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

The Rau property lies within a band of regional-scale thrust and high angle reverse faults that imbricate rocks of Selwyn Basin and Mackenzie Platform (Figure 7). Selwyn Basin stratigraphy consists of regionally metamorphosed, basinal sediments of Neoproterozoic to Paleozoic age. Mackenzie Platform stratigraphy comprises dominantly shallow water carbonate and clastic sediments that were deposited from Mid-Proterozoic through Paleozoic times. Both packages of sediments were deposited on the western margin of ancestral North America.

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

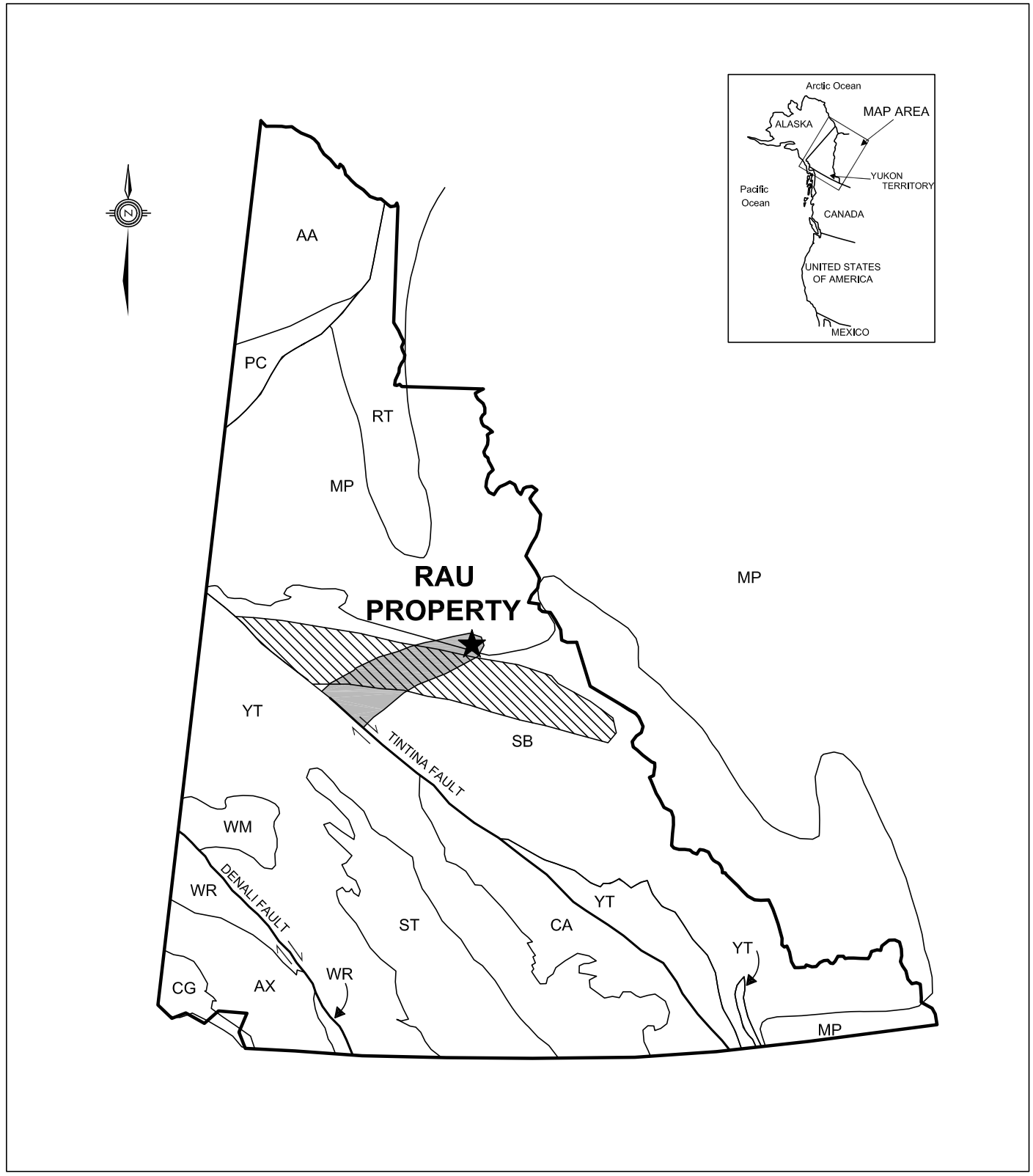
Figure 8 shows regional geology in central Yukon. It is a geological compilation that takes into account recent age dating and new unit correlations, which Charlie Roots prepared for the Yukon Geological Survey (Cathro, 2006).

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

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

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

Tectonic Element	Age (Ma)	Unit and Lithologies
Rocks of Ancestral North America		
Mackenzie Platform	1700 - 1800	Gillespie Lake Group: orange-brown dolostone and sandstone.
Mackenzie Platform	540 - 390	Bouvette Formation: white and grey limestone with rare black shale.
Mackenzie Platform	540 - 420	Marmot Formation: dark green to brown mafic, vesicular and amygdaloidal volcanic flows.



ANCESTRAL NORTH AMERICA

- MP — Mackenzie Platform
- SB — Selwyn Basin
- RT — Richardson Trough

TERRANES
Displaced Continental Margin

- AA — Arctic Alaska
- CA — Cassiar
- PC — Porcupine

Pericratonic Terranes

- YT — Yukon-Tanana / Slide Mountain

ACCRETED TERRANES

- ST — Stikinia / Cache Creek
- AX — Alexander
- WR — Wrangellia
- CG — Chugach
- WM — Windy McKinley

INTRUSIVE SUITES

- Tombstone
- McQuesten

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FIGURE 7

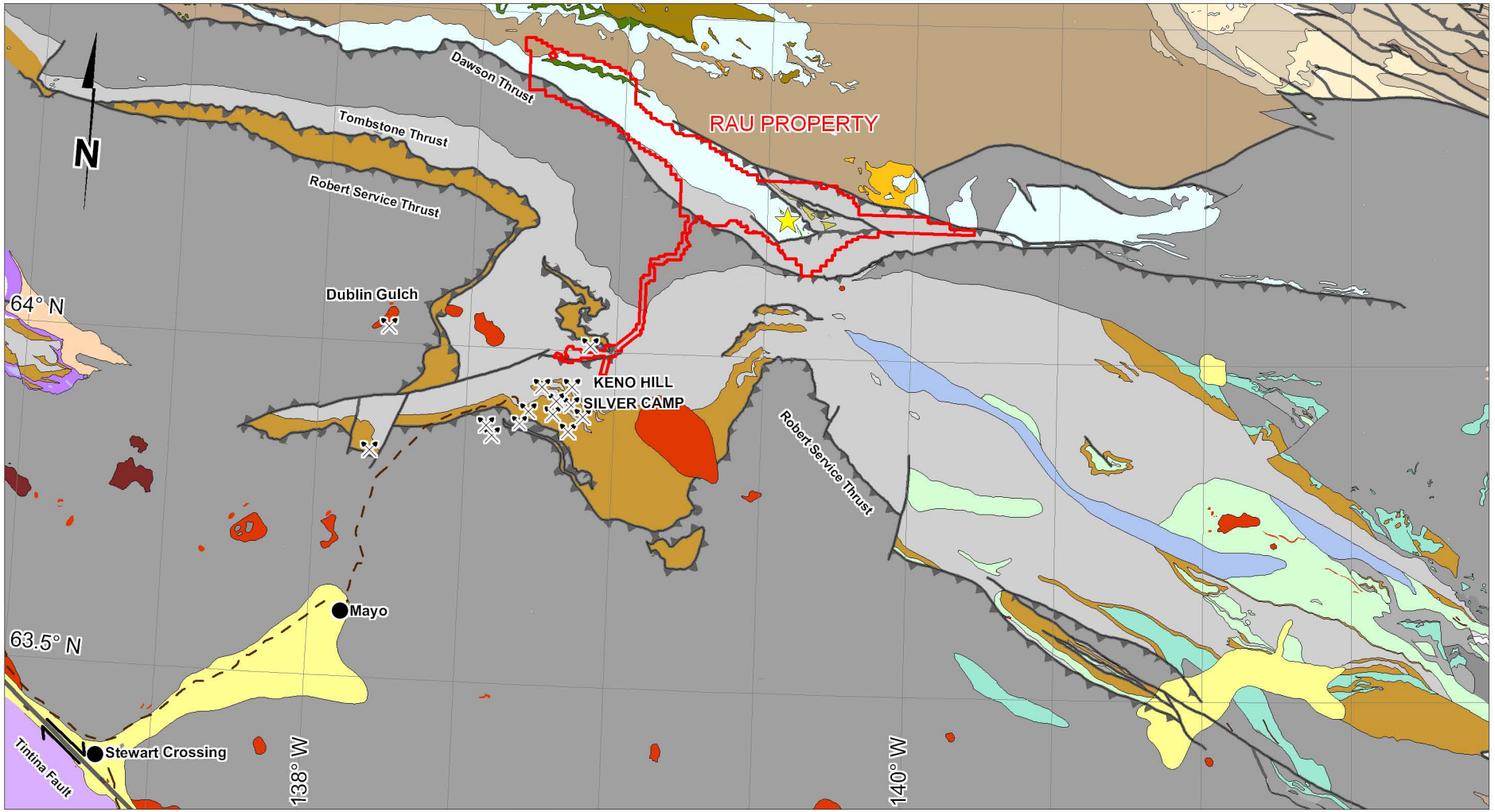
TECTONIC SETTING

RAU PROPERTY

0 100 200 km

FILE: ...2009\RAU\F_7-TECTONIC.DWG

DATE: MARCH 2009



Overburden
McQuesten Suite Intrusions
Tombstone Suite Intrusions
Jones Lake Formation
Accreted Terranes
Mount Christie Formation
Icefield Ranges Suite
Keno Hill Quartzite
Earn Group
Gossage Formation
Bouvette Formation
Marmot Formation
Rabbitkettle Formation
Cambrian Sediments
Gull Lake Formation
Iltyd Formation
Hyland Group
Risky Formation
Proterozoic Sediments

Former mine
High angle fault
Thrust fault
Major transcurrent fault
Road
Tiger Zone

Modified from: Gordey and Makepeace (2001)

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FIGURE 8

REGIONAL GEOLOGY

RAU PROPERTY

0 50 km

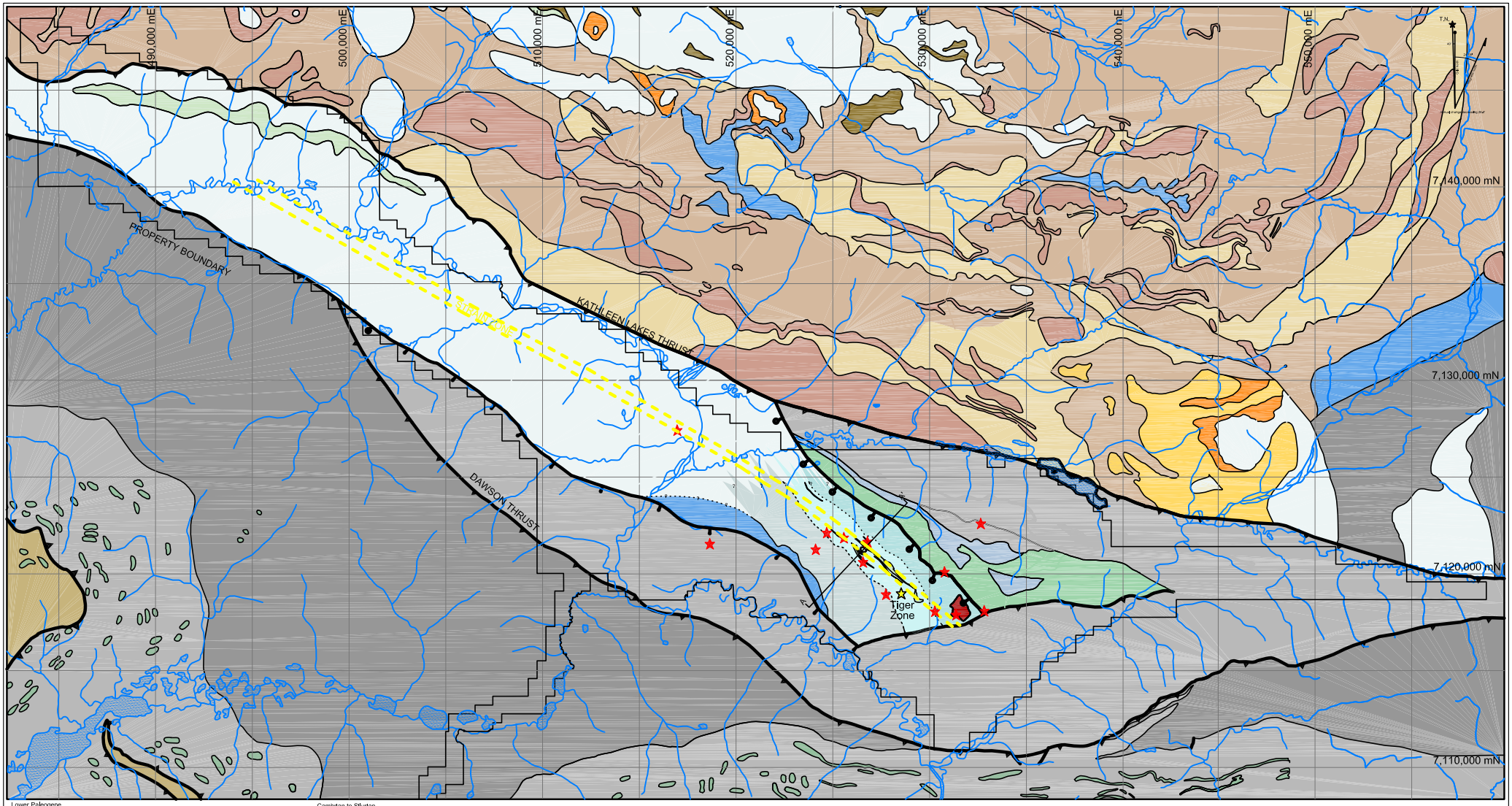
FILE: ...2009/RAU/F_8-REGIONAL.WOR | DATE: MARCH 2010

Selwyn Basin	750? - 530	Hyland Group: brown quartz-mica schist, with rare limestone.
Selwyn Basin	530 - 500	Gull Lake Formation: brown and green shale, sandstone, conglomerate and volcanic tuff.
Selwyn Basin	500 - 480	Rabbitkettle Formation: dark silty limestone and limy mica-rich conglomerate.
Selwyn Basin	480 - 390	Road River Group: black shale, chert and limy siltstone.
Rock formed before orogenic event		
	390 - 350	Earn Group: black shale and chert with lesser pebble conglomerate, sandstone and grit.
	340	Keno Hill Quartzite: grey metamorphosed sandstone, minor black shale and phyllite.
Rocks formed during orogenic event		
	225	Galena Suite intrusions: brown and green diorite and gabbro.
	200 - 250	Jones Lake and Mt. Christie Formations: sandstone, brown shale and dark limestone.
Rocks formed after orogenic event		
	90 - 94	Tombstone Suite intrusions: granite and granodiorite.
	62 - 67	McQuesten Suite intrusions: granite with two types of mica.
Sediments younger than 3 Ma		
	0 - 3	Overburden: ice-deposited sand and gravel; river silt.

Property Geology

Very little detail geological mapping has been conducted within the current property boundary. Most work has focused within the favourable Bourette Formation stratigraphy in close proximity to the Tiger Zone mineralization. The following descriptions are taken largely from previously documented government and historical mapping.

The Rau property lies within a northwest trending thrust package bound to the south by the Dawson Thrust and to the north by the Kathleen Lakes Fault. Property scale geology is illustrated on Figure 9. Stratigraphy within this package forms open folds that are aligned parallel to the thrusts and plunge gently to the southeast. Several high angle faults, which parallel the general structural trend, are inferred on the property and others could be present. One or more of these faults may have acted as a conduit for mineralizing fluids.



Lower Paleogene
- Rackla Pluton: granite with two types of mica.

Triassic
- TrG: Galena Suite: brown and green diorite and gabbro.

Carboniferous to Permian
- CPps: Skolai Group: dark grey slate interbedded with laminated quartz sandstone and thick bedded massive, fine grained quartzite; buff and green phyllite.

Carboniferous to Permian
- CPI: Icefield Ranges Suite: thick bedded, buff and grey weathering, dark grey limestone.

Mississippian
- MK: Keno Hill Quartzite: grey metamorphosed sandstone, minor black shale and phyllite.

Devonian and Mississippian
- DME: Earn Group: black shale and chert with lesser pebble conglomerate, sandstone and grit.

Devonian
- DG: Gossage Formation: limestone and dolostone with lesser black limestone and shale.

Upper Cambrian to Lower Devonian
- CDB: Bouvette Formation: white and grey limestone with rare black shale.
- €DC: Cambrian to Devonian: massive pale grey dolostone, oncolitic dolostone, minor quartzite, sandy dolostone.
- OSc: Ordovician to Silurian: thin to medium bedded grey and buff weathering silty limestone with massive white limestone and well bedded tan grey limestone in the upper part of the unit.
- SDc: Silurian and Devonian: thick bedded to massive light grey dolostone and limestone.

Cambrian to Silurian
- CSM: Marmot Formation: dark green to brown mafic, vesicular and amygdaloidal volcanic flows.

Lower and Middle Cambrian
- lmCs: Slats Creek Formation: rusty brown turbiditc quartz sandstone, minor shale and siltstone.
- lCl: Illyd Formation: light grey, medium bedded dolostone and limestone.

Upper Proterozoic to Lower Cambrian
- PCH: Hyland Group: brown quartz-mica schist with rare limestone.

Middle Proterozoic
- mPPFl: Fifteen Mile Group: red, green and grey shale to silty dolomite.
- mPH: Hart River Formation: dark weathering mafic volcanic flows.

Lower Proterozoic
- lPG: Gillespie Lake Group: orange-brown dolostone and sandstone.
- lPQ: Quartet Group: black shale and siltstone.

- High angle fault
- Thrust fault
- Defined contact
- Inferred contact
- Showing

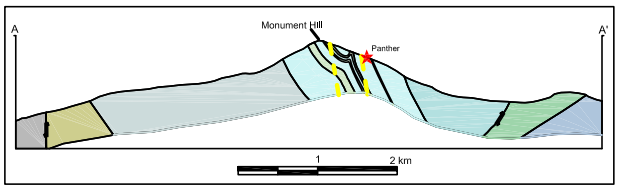


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FIGURE 9

PROPERTY GEOLOGY

RAU PROPERTY

0 1 3 10 km

FILE: ...2009\RAU\F_9-PROPERTY_GEOLOGY.DWG | DATE: MARCH 2010

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

1) **Cambrian and Ordovician** – massive pale grey dolostone, oncolitic dolostone, minor quartzite and sandy dolostone.

2) **Ordovician and/or Silurian** – thin to medium bedded grey and buff weathering silty limestone; massive white limestone, well bedded tan and grey limestone in the upper part of the unit.

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

The thickness of the Bouvette Formation on the property is estimated to be at least 1400 m. The primary focus of mapping in 2009 was limited to the area around Monument Hill and the Tiger Zone within the Ordovician-Silurian strata hosting carbonate gold replacement mineralization Elsewhere the Bouvette Formation has not been mapped in detail and remains undifferentiated.

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

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

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

The central part of the property hosts numerous dykes and sills believed to represent a roughly 1000 m diameter granitic plug referred to as the "**Rackla Pluton**". The plug is mostly composed of coarse grained, equigranular, biotite-and muscovite-bearing granite that is locally miarolitic (Panton 2008). The dykes and sills typically range between 30 cm and 7 m in thickness. They are often more fractionated than the plug and include garnet bearing aplite and coarse pegmatite that locally features beryl, amazonite (a green variety of feldspar) and one or more tourmaline

minerals (rubellite, indigolite and schorl). The pegmatite bodies comprise mainly orthoclase and quartz but often exhibit abundant lithium-and vanadium-rich micas on their margins.

On surface, the Rackla Pluton is mostly covered by glacial till and only aplite and pegmatite sills and dykes are visible. The pluton is best delineated by its airborne magnetic signature (Figure 10). At the property scale the pluton is represented by a strong magnetic high. When the data is collapsed to the area immediately surrounding the pluton and a high-pass filter is applied, the signature shows a core magnetic low with a fringing magnetic high.

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

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

MINERALIZATION

Several types of mineralization are known to occur on the Rau property including: **1)** sediment-hosted replacement-style gold; **2)** zinc±silver±lead±gold±bismuth in limonite-rich veins and replacement bodies; **3)** scheelite in tremolite skarns; **4)** pyrrhotite±scheelite±chalcopyrite in actinolite-diopside±garnet skarns; **5)** wolframite± tantalite in granite; and **6)** gold bearing quartz-boulangerite veins. **7)** iron±zinc in hydromorphically transported gossans.

Rock samples were collected from several parts of the property during prospecting traverses completed in 2009. They were sent to ALS Chemex in North Vancouver, B.C. where they were fine crushed before a 250 g split was pulverized to better than 85% passing 75 microns. Splits of the pulverized fraction were routinely dissolved in aqua regia and analyzed for 48 elements using inductively coupled plasma (ICP) together with mass spectroscopy (MS) or atomic emission spectroscopy (AES). The samples were also routinely assayed for gold by Au-AA26, which takes a 50 g charge and prepares it by fire assay before being finished by atomic absorption spectroscopy.

Appendix VI contains Certificates of Analysis and Appendix VII comprises rock sample descriptions. Rock sample locations are shown on Figure 11. Figures 12 to 15 illustrate data for gold/silver, arsenic/bismuth, lead/zinc and tungsten, respectively.

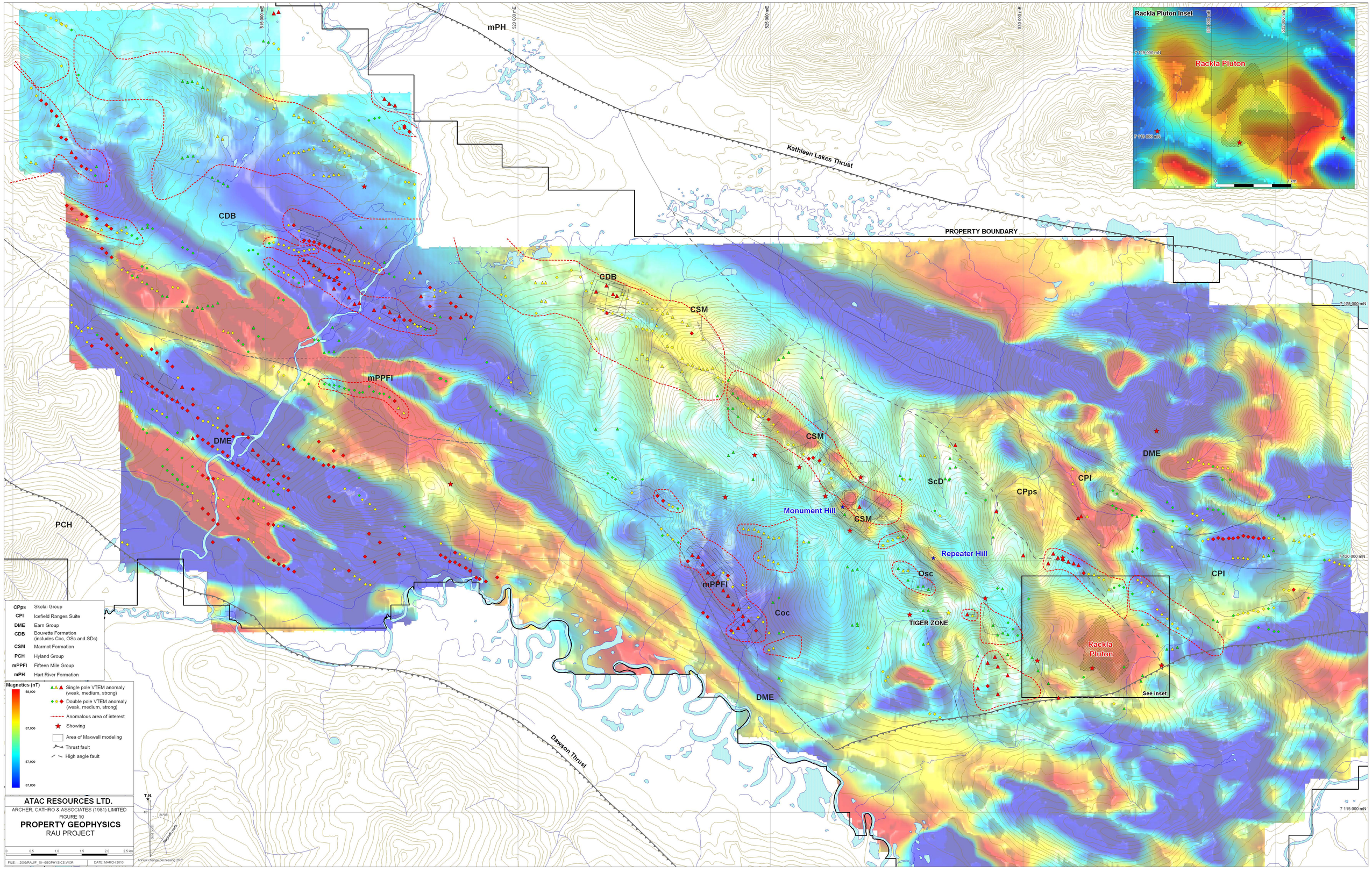
Rackla Pluton Inset
7 119 000 mN
7 118 000 mN
553 000 mE
0
1km
mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
7 125 000 mN
7 120 000 mN
7 115 000 mN
515 000 mE
520 000 mE
525 000 mE
550 000 mE
CDB
GDB
CSM
mPPFI
DME
PCH
Coc
ScD
CPps
CPI
Osc
Monument Hill
Repeater Hill
TIGER ZONE
Rackla Pluton
See inset
Dawson Thrust
CPs Skolai Group
CPI Icefield Ranges Suite
DME Earn Group
CDB Bouvette Formation (includes Coc, OSc and SDc)
CSM Marmot Formation
PCH Hyland Group
mPPFI Fifteen Mile Group
mPH Hart River Formation
Magnetics (nT)
58,000
57,900
57,900
57,800
Single pole VTEM anomaly (weak, medium, strong)
Double pole VTEM anomaly (weak, medium, strong)
Anomalous area of interest
Showing
Area of Maxwell modeling
Thrust fault
High angle fault
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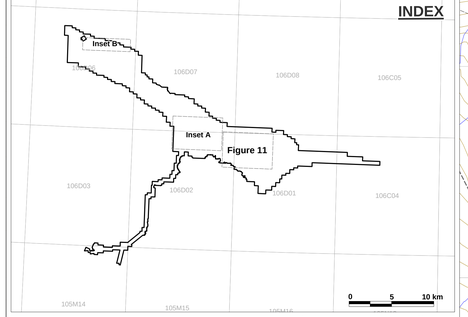
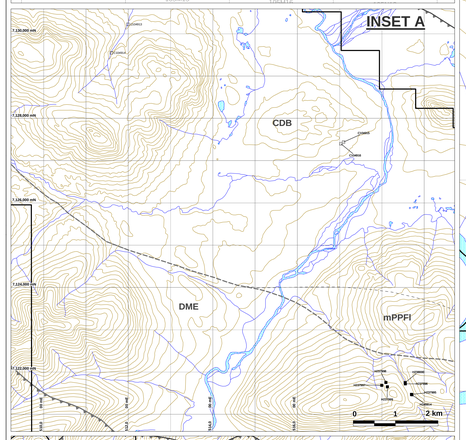
FIGURE 10
PROPERTY GEOPHYSICS
RAU PROJECT
0 0.5 1.0 1.5 2.0 2.5 km
T.N.
24°00'
Magnetic north
Annual change decreasing 26.6'
FILE: 2009/RAU/F_10~GEOPHYSICS.WOR
DATE: MARCH 2010

T.N.
60°
24°09'
Grid North
Magnetic North
Annual change decreasing 25.6'

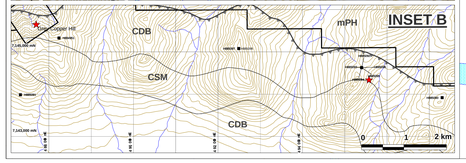
INDEX

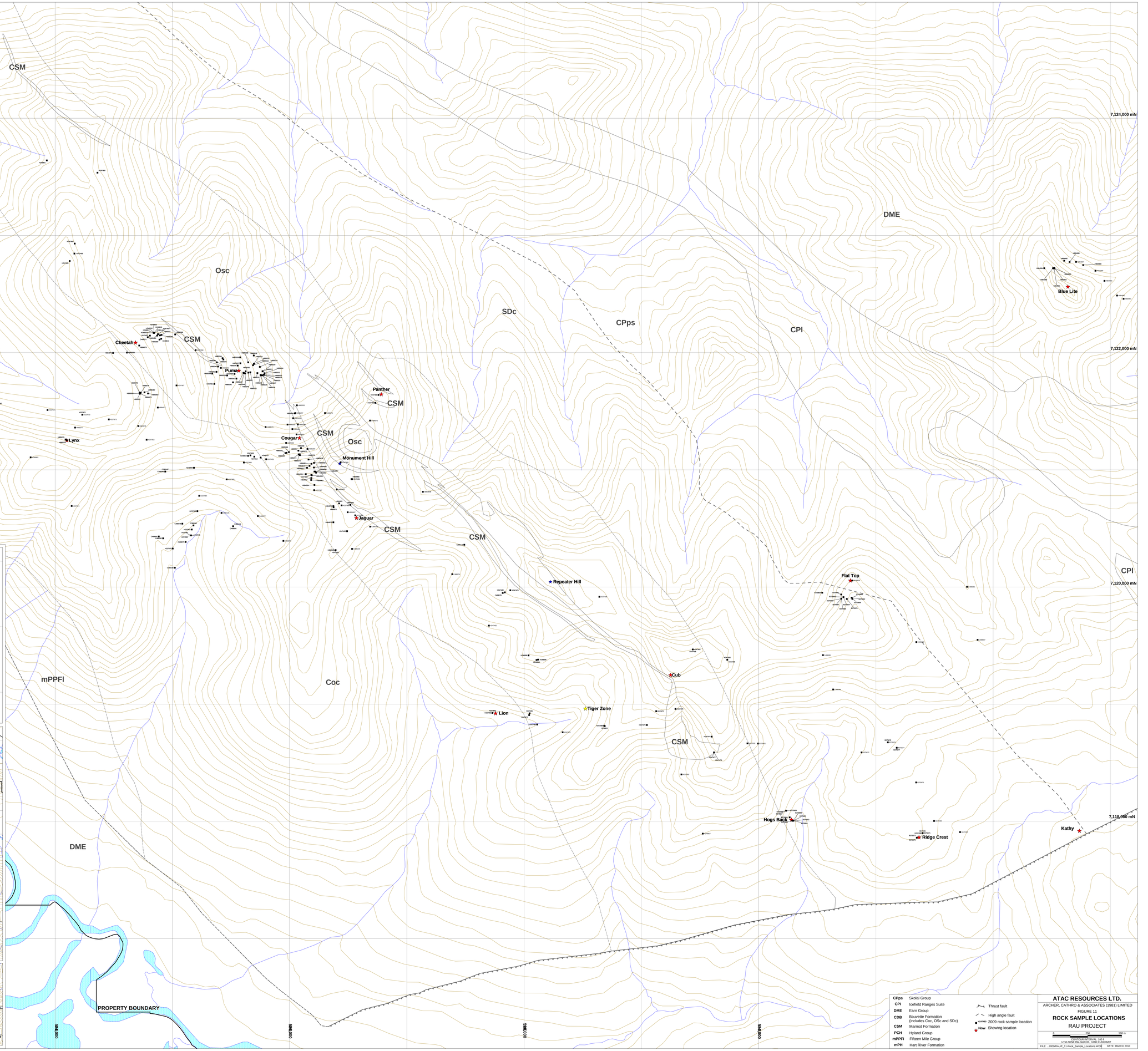


INSET A



INSET B





CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFI	Fifteen Mile Group
mPH	Hart River Formation

Thrust fault
High angle fault
2009 rock sample location
Now Showing location

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FIGURE 11

ROCK SAMPLE LOCATIONS

RAU PROJECT

0 250 500 m

CONTOUR INTERVAL: 100 ft
UTM ZONE 8W, NAD 83, 1983 CSRS98(V7

FILE: ...2009\RAUP_11-Rock_Sample_Locations.WOR DATE: MARCH 2010

T.N.
40°
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'

CSM
Osc
SDc
CPps
CPl
DME
Coc
mPPFI
CSM
Osc
CSM
CSM
CSM
DME
DME
mPPFI
CDB
CSM
mPH
CDB
CDB

Cheetah
Puma
Panther
Cougar
Lynx
Monument Hill
Jaguar
Repeater Hill
Lion
Tiger Zone
Cub
Flat Top
Blue Lite
Hogs Back
Ridge Crest
Kathy

7,124,000 mN
7,122,000 mN
7,120,000 mN
7,118,000 mN

PROPERTY BOUNDARY

INDEX
Inset B
Inset A
Figure 12
106D07
106D08
106C05
106D03
106D02
106D01
106C04
105M14
105M15
105M16
0 5 10 km

INSET A
0 1 2 km

INSET B
0 1 2 km

CPps	Skolai Group		Thrust fault
CPl	Icefield Ranges Suite		High angle fault
DME	Earn Group		2009 rock sample (gold [g/t]/silver [g/t])
CDB	Bouvette Formation (includes Coc, OSc and SDc)		2006-2008 rock sample (gold [g/t]/silver [g/t])
CSM	Marmot Formation	Now	Showing location
PCH	Hyland Group		
mPPFI	Fifteen Mile Group		
mPH	Hart River Formation		

Samples with zero values were not analyzed for gold or silver

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FIGURE 12

ROCK GEOCHEMISTRY - GOLD AND SILVER -

RAU PROJECT

0 500 1000 m

CONTOUR INTERVAL: 100 ft
UTM ZONE 8W, NAD 83, 1000 FEET GRIDS

FILE: ...2009/RAU/F_12-Rock_Geochem_Au_Ag.WOR | DATE: MARCH 2010

T.N.
40°
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'

INDEX

Inset B
Inset A
Figure 13
106D07
106D08
106C05
106D03
106D02
106D01
106C04
105M14
105M15
105M16
0 5 10 km

INSET A

CDB
DME
mPPFl
7,126,000 mN
7,124,000 mN
7,122,000 mN
0 1 2 km

INSET B

CDB
CSM
mPH
Copper Hill
7,126,000 mN
7,124,000 mN
7,122,000 mN
0 1 2 km

CSM
Osc
SDc
CPps
CPl
DME
mPPFl
Coc
CSM
CSM
CSM
CSM
CSM
CSM
CSM
CSM
DME
DME
DME
CSM
CSM
CSM
CSM
CSM
CSM
CSM
CSM

T.N.

40°

24°09'

Grid North

Magnetic North

Annual change decreasing 25.6'

CSM

Osc

SDc

CPps

CPl

DME

mPPFl

Coc

mPH

CDB

7,124,000 mN

7,122,000 mN

7,120,000 mN

7,118,000 mN

Cheetah

Puma

Panther

Cougar

Lynx

Monument Hill

Jaguar

Repeater Hill

Blue Lite

Flat Top

Cub

Lion

Tiger Zone

Hogs Back

Ridge Crest

Kathy

PROPERTY BOUNDARY

9960,000

INDEX

Inset B

Inset A

Figure 14

106D07 106D08 106C05 106D03 106D02 106D01 106C04 105M14 105M15

0 5 10 km

INSET A

CDB

DME

mPPFl

0 1 2 km

INSET B

Copper Hill

CDB

mPH

CSM

CDB

0 1 2 km

CPps	Skolai Group		Thrust fault
CPl	Icefield Ranges Suite		High angle fault
DME	Earn Group		
CDB	Bouvette Formation (includes Coc, OSc and SDc)	222342	2009 rock sample (lead [ppm]/zinc [ppm])
CSM	Marmot Formation	222342	2006-2008 rock sample (lead [ppm]/zinc [ppm])
PCH	Hyland Group		
mPPFl	Fifteen Mile Group	Now	Showing location
mPH	Hart River Formation		

Samples with zero values were not analyzed for lead or zinc

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ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 14

ROCK GEOCHEMISTRY

- LEAD AND ZINC -

RAU PROJECT

0 250 500 m

CONTOUR INTERVAL: 100 ft

UTM ZONE 8W, NAD 83, 1001-0207

FILE: ...2009/RAU/F_14-Rock_Geochem_Pb_Zn.WOR DATE: MARCH/ 2010

T.N.

40°

24°09'

Grid north

Magnetic north

Annual change decreasing 26.6'

CSM

Osc

SDc

CPps

CPl

DME

Coc

mPPFl

CDB

mPH

Cheetah

Puma

Panther

Cougar

Lynx

Monument Hill

Jaguar

Repeater Hill

Flat Top

Blue Lite

Cub

Tiger Zone

Lion

Hogs Back

Ridge Crest

Kathy

7,124,000 mN

7,122,000 mN

7,120,000 mN

7,118,000 mN

386,000

PROPERTY BOUNDARY

INDEX

Inset B

Inset A

Figure X

106D03 106D02 106D01 106C04 106D07 106D08 106C05 105M14 105M15

0 5 10 km

INSET A

7,126,000 mN

7,124,000 mN

7,122,000 mN

7,120,000 mN

0 1 2 km

INSET B

Upper Hill

7,140,000 mN

7,138,000 mN

0 1 2 km

CPps	Skolai Group		Thrust fault
CPl	Icefield Ranges Suite		High angle fault
DME	Earn Group		
CDB	Bouvette Formation (includes Coc, OSc and SDc)	899	2009 rock sample (tungsten [ppm])
CSM	Marmot Formation	899	2006-2008 rock sample (tungsten [ppm])
PCH	Hyland Group		
mPPFl	Fifteen Mile Group	Now	Showing location
mPH	Hart River Formation		

Samples with zero values were not analyzed for tungsten

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FIGURE 15

ROCK GEOCHEMISTRY

- TUNGSTEN -

RAU PROJECT

0 250 500 m

UNIVERSAL TRANSVERSE MERCATOR PROJECTION

UTM ZONE 8W, NAD 83, 1000 : 0.0100457

FILE: ...2008/RAU/F_15-Rock_Geochem_W.WOR | DATE: MARCH 2010

Replacement Style Gold Mineralization

Replacement style gold mineralization has been the primary focus of exploration in 2008 and 2009. To date several showings have been identified with the Tiger Zone being the best understood and most aggressively explored.

The **Tiger Zone** is located 3 km west-northwest of the Rackla Pluton in a moderate to steep walled valley.

The Tiger Zone is a thick northwesterly trending body of carbonate replacement style gold mineralization hosted by a moderately northeast dipping horizon. It is currently 650 m long, 100 to 200 m wide and up to 96 m thick. Mineralization is developed within and adjacent to a regionally extensive corridor of highly strained rocks that are manifested as a 40 to 150 m wide zone of small scale folding and shearing. The geometry of the mineralized system is defined by a series of stacked and folded limestone horizons intercalated with locally extensive mafic flows and volcaniclastic units.

Most of the exploration has been directed toward the Discovery Horizon, although there is evidence for at least two additional stratabound intervals of gold mineralization occurring above and below the Discovery Horizon.

Due to a combination of topography, overburden and stratigraphic orientation, the Discovery Horizon is the only mineralized horizon observed at surface. It is exposed over a 75 m long by 10 m wide area on the east side of Tiger Creek. In 2009 a hand trench was dug at the northeast end of this exposure where oxidized limonite boulders and subcrop occur. The trench contains moderately oxidized limonite boxwork with remnant sulphide mineralization, capped by highly sericite altered volcaniclastic. Two samples of subcrop were collected in 2008 from the area near this trench. They returned 22.5 g/t gold, greater than 1% arsenic, 415 ppm bismuth and 116 ppm tungsten; and 13.6 g/t gold, greater than 1% arsenic, 410 ppm bismuth and 51.9 ppm tungsten.

Gold occurs in both sulphide and oxide facies mineralization. Sulphide mineralization is accompanied by, and developed within, limestone which is replaced by ferruginous dolomite and iron carbonate minerals. Sulphide species consist of disseminated to banded pyrite, with subordinate arsenopyrite and pyrrhotite and minor bismuthinite and sphalerite. Small amounts of disseminated scheelite are also present. The main sulphide minerals exhibit at least three stages of mineralization. The best intersection from sulphide bearing mineralization averaged 4.04 g/t gold over 96.01 m from hole Rau-09-66.

Oxide mineralization is completely devoid of sulphide minerals and ranges from very competent, weakly porous limonitic mud to rubbly porous limonitic grit. The oxide appears texturally amorphous within most intersections but occasionally exhibits residual color banding that may represent relict sulphide textures. Complete oxidation extends up to 150 m from surface. The best oxide grades (e.g. hole Rau-09-19 which assayed 24.07 g/t gold across 28.04 m) and deepest oxidation occur where northerly trending extensional faults intersect the regional structure. The nature of the contacts between the oxide and sulphide facies is poorly understood, as is the gold

distribution within the mineralized horizon and within individual sulphide species. Mineralization at the Tiger Zone remains open to extension along strike and down dip at both ends of the known zone, as well as at depth across a normal fault that locally defines the southwest margin of the favourable structural corridor.

Mineralization hosted within the lower horizon is also referred to as the East Zone. If is diagnostic from Tiger Zone mineralization as it contains proportionally more quartz in the hydrothermal dolomite and iron carbonate replacement assemblage and contains mostly pyrite with very little arsenopyrite.

Big Creek Resources explored and conducted a 610 m diamond drill program on Carpenter Ridge from 1990 to 1991. Drilling intersected a vein grading 9.5% combined lead-zinc over 5 m, and another grading 4.5% combined lead-zinc over 9.3 m (INAC, 1992). Trenching during this period yielded 64 g/t with 39% combined lead-zinc over 7.5 m. Mapping by the Yukon Geological Survey in the 1990's interpreted these veins as being related to Proterozoic aged Mississippi-Valley type replacement, similar to those of the Blende deposit 32 km to the east (Abbott, 1990). The claims were eventually abandoned and no further work was recorded at Carpenter Ridge.

Several other showings containing mineralization similar to that found at the Tiger Zone have been identified on the property. These include the Cub, Lion, Jaguar, Panther, Cougar, Puma, Cheetah and Lynx Showings. All of the showings are occurrences of mineralized float found on grassy or talus covered slopes and ridges.

The **Cub Showing** occurs 575 m to the east of the Tiger Zone. Mineralized float was found in a 110 m wide by 250 m long area on a south facing talus covered slope. The showing coincides with a strong bismuth-in-soil anomaly (>200 ppm). Float samples typically yielded greater than 200 ppm bismuth and include peak values of 1645 ppm, 1990 ppm and 6160 ppm. Rock samples returned peak gold values of 1.08 g/t and 1.15 g/t. A float sample taken from the southeastern edge of the showing contained 18.15 g/t silver, 4630 ppm lead and greater than 1% zinc. The sample that contained 1990 ppm bismuth also produced the highest tungsten value (223 ppm).

The **Lion Showing** was discovered while surveying the Tiger Zone drill access road. Here, strongly pitted orange-black limonite and orange-red limonitic siderite and dolomite cobbles were found 770 m west of the Tiger Zone. A sample of this material returned 0.17 g/t gold, greater than 1% arsenic, 2000 ppm lead, 2080 ppm tungsten and 1.36% zinc.

The **Jaguar Showing** is located on a grassy spur radiating outwards from the south side of Monument Hill. Thirteen samples were collected within a 400 m by 300 m area. Float samples generally consisted of dense, rusty purple, goethite-rich limonite with rare patches of quartz.

Two samples taken from this showing returned 1.57 g/t and 2.81 g/t gold. The remainder of the samples returned values less than 1.0 g/t gold. Silver values ranged from 0.81 g/t to 7.08 g/t with most samples yielding between 1.0 g/t and 3.0 g/t. Lead was generally below 0.07% and peaks at 0.2%, while zinc has a peak value of 5930 ppm but typically ranges from 200 ppm to 1000

ppm. Only cursory prospecting has been performed at this locale and the source of mineralization has yet to be identified.

The **Panther Showing** is situated along a ridge on the north side of Monument Hill. Limonite float was found within a north northeast trending recessive linear feature that marks the contact between limestone to the south and volcaniclastic to the north. A specimen returned 5.72 g/t gold, 5.01 g/t silver, 9460 ppm arsenic, 61.7 ppm bismuth, 94.9 ppm lead and 1070 ppm zinc. Limonitic float was also found downhill, to the north and yielded 0.06 g/t gold, 11.05 g/t silver, 6200 ppm arsenic, 47.3 ppm bismuth, 2100 ppm lead and 1.29% zinc. To the south, a purple limonite stained siderite fragment yielded gold below the detection limit, 0.36 g/t silver, 7 ppm arsenic, 0.58 ppm bismuth, 383 ppm lead, and 1.5% zinc. The source of mineralization has not yet been located.

The **Cougar Showing** is located in a north facing cirque, along the northwest slope of Monument Hill. Mineralized float is found in an avalanche chute which stretches approximately 600 m from the base of the hill to the ridge. This float train continues over the ridge and into the valley to the southeast. Cobbles of dense rusty limonite with rare blebby bismuthinite and galena in quartz occur in a talus field comprising mostly limestone with volcaniclastic material to the east and west. Mineralized float becomes more concentrated near the ridge, although no outcrop was located.

A number of samples collected from this float train produced elevated gold (1.57 g/t and 3.13 g/t) and silver values (483 g/t). Three samples taken near the ridge yielded greater than 1% bismuth; however, these samples were only slightly elevated for other elements. Arsenic values throughout the Cougar Showing were elevated and include peak values of 1.2% and 2.1%. Four samples yielded greater than 10% lead with a peak of 35.7%, while most samples contained below 5000 ppm lead. The sample yielding 1.57 g/t gold also contained 19.4% lead. Almost all samples ranged between 0.2% and 1.1% zinc with a peak value of 1.38%.

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

A total of 39 samples were collected from this showing and submitted for analysis, six of which were goethite or goethite rich limonite that returned gold values greater than 1.0 g/t including a peak value of 18.45 g/t gold. Silver ranged between 0.2 g/t and 68.8 g/t with four samples exceeding 100 g/t to a maximum of 241 g/t silver.

Twelve of the samples contain greater than 1000 ppm arsenic with a peak of 6230 ppm. Most of the bismuth results were less than 400 ppm, with only five samples greater than 1000 ppm bismuth, two of which are greater than 1%.

Six samples returned lead values greater than 1%, including one containing 10.6 %. These samples were collected downhill, on the eastern slope of the Puma Showing. Zinc values range from 100 ppm to 9000 ppm, with five samples yielding greater than 1% zinc, up to a maximum of 2.7 %. These five samples are also anomalous for lead.

The **Cheetah Showing** is located approximately 800 m west northwest of the Puma Showing. A 500 m long by 100 m wide float train extends up a south facing slope to a ridge which is cut by a northeast trending linear. The linear was traced for approximately 30 m to the northeast until becoming buried in limestone talus. Samples collected from this showing were predominately composed of goethite and limonite float.

A sample of a purple brown, goethite rich boxwork limonite returned 3.06 g/t gold, while all other samples contained less than 0.24 g/t gold. Silver values ranged from 0.73 g/t to 34.4 g/t. Most arsenic values were below 300 ppm with five samples greater than 1000 ppm including one sample that yielded 1.3%. While most bismuth results ranged from 0.12 ppm to 578 ppm, five samples yielded values greater than 1000 ppm bismuth, up to a peak of 2640 ppm. Two distinct populations of zinc values occur at this showing. Half of the samples contain less than 300 ppm zinc, while the other half have greater than 1000 ppm zinc and peaks at 1.4%.

A ten metre long trench was dug across the ridge in an attempt to locate the source of mineralization. Five chip samples were taken from this trench, returning only background values for all elements. The trench was located approximately 50 m downhill from the mineralized float and did not expose any mineralization.

The **Lynx Showing** is located 2.3 km west of Monument Hill and consists of isolated limonite float within a limestone talus field. This showing is located on the opposite side of the valley as the Cheetah Showing. A sample collected at the Lynx returned 0.24 g/t gold, 7290 ppm arsenic, 789 ppm lead and 5970 ppm zinc. A similar sample, collected 700 m to the east, yielded 1.45 g/t gold.

Scheelite Tremolite-Actinolite Skarns

Four known tungsten skarn showings occur on the Rau property. Three of these are located less than 1.5 km from the Rackla Pluton, while the fourth is located 4.8 km to the north. They are a combination of scheelite-tremolite and actinolite skarns containing varying concentrations of pyrite, pyrrhotite and rare chalcopyrite. These showings have associated moderate to strong tungsten, gold and copper soil geochemical anomalies (Dumala, 2009).

The **Hogs Back Showing** is located 800 m southwest of the pluton. This showing is exposed on the north and south side of a northwest trending gully. It was first identified in 2006 and followed up in 2007. The showing consists of three actinolite skarn layers occurring conformably within a portion of the Bourette limestone sequence. Mineralization comprises finely disseminated to patchy pyrrhotite, pyrite and lesser chalcopyrite. Marbleisation of the surrounding limestone is variable but extends up to 5 m in areas. The skarn layers have been traced to the northwest for over 750 m and vary in thickness from 0.3 m to 6 m, averaging 0.8 m. The thickest and best mineralized exposure occurs at the southeast edge of a crosscutting

drainage before disappearing to the southeast beneath cover. In general the exposed skarn horizons appear too thin to the northwest.

The two thickest packages of mineralization appear proximal to a pair of southwest striking, quartz muscovite pegmatite dykes. The northwesterly dyke is one metre wide and exposed along strike for only two metres, while the dyke to the southwest is three metres wide and exposed for ten metres. No direct contact was observed between the dykes and the skarns.

Select rock samples collected from this showing in 2006 and 2007 yielded peak values of 4010 ppm tungsten and 1.24 g/t gold from the north side of the showing (Dumala, 2008), while chip samples collected in 2009 from the south side returned gold values less than 0.05 g/t, and a peak tungsten result of 3110 ppm. A one metre chip sample of sugary weathered limestone containing fine grained pyrite that was taken between two skarn layers returned 0.45 g/t gold. A single diamond drill hole tested this showing in 2008; however, it was collared too far forward to test the skarn mineralization.

The **Ridge Crest Showing**, located on the southwest side of the Rackla Pluton, was discovered in 2009 while following up a gold-in-soil anomaly (990 ppb) within the 2007 sample grid. A 70 cm deep hand pit dug at this location revealed glacial till and grey limestone fragments. Two cobbles of rusty dark green pyroxene skarn and several oxidized skarn fragments were also extracted from this pit. Samples of the skarn yielded 0.02 g/t gold and 850 ppm tungsten. A dyke containing equigranular coarse grained white to smoky quartz and minor muscovite with occasional patches of chlorite and trace fine grained sulphides occurs 15 m to the west. A float sample collected nearby returned 1060 ppm tungsten.

The **Flat Top Showing** occurs along a north trending ridge approximately 1.3 km northwest of the Rackla Pluton. It is localized along the contact between the Bouvette Formation and Earn Group strata. The showing is marked by approximately coincident, moderately to strongly anomalous gold, copper and tungsten soil geochemical values approximately 600 m long and up to 300 m wide. Scheelite in tremolite skarn was first found at this locale in 1979 by Prism. Prospecting in 2009 traced skarn mineralization around the nose of the ridge for 400 m.

Four types of skarn mineralization occur across a stratigraphic thickness of about 40 m. The first, found immediately above the contact, occurs as felted to radiating masses of acicular tremolite/actinolite or wollastonite/actinolite localized in a band that ranges from a few 10's of cm to a few metres thick. The second, found within unaltered carbonate rock, are masses of tremolite mixed with calcite found in 0.5 mm to 2 cm thick veinlets. Thirdly, an iron rich skarn consisting of coalescing aggregates of radiating acicular masses of tremolite/actinolite preferentially replaces the host carbonate. Rare interstitial green tourmaline or vesuvianite, calcite and quartz also occur with this skarn type. Finally extending upward from the contact is the most iron rich species. It contains felted masses of light green actinolite with local black tourmaline, biotite books, light grey to smoky quartz and patches of massive medium brown limonite.

Prism Resources reported rock samples assaying up to 8.38% WO_3 but most samples collected from the area grade less than 0.04% WO_3 (Churchill, 1980). One sample consisting of a quartz

fragment surrounded by green actinolite with black tourmaline and traces of pyrrhotite returned 0.127 g/t gold. A single diamond drill hole tested the area in 2008 but it was collared too far downhill and only intersected shale belonging to the Earn Group.

The **Blue Lite Showing,** first discovered by Prism in 1979, is a scheelite tremolite skarn located 4.8 km northeast of the Rackla Pluton. The skarn mineralization is well exposed on a cliffy outcrop on the north side of a prominent peak. Mineralization consists of scheelite as disseminations with massive pyrrhotite and minor chalcopyrite. The skarn horizon disappears under talus to the east and grass to the west. The Blue Lite Showing is located along a high angle normal fault that dips to the south. This fault marks the contact between Devo-Mississippian clastics to the north and Devonian to Jurassic clastics to the south.

Samples collected by Prism in 1979 from this showing returned between 0.02% and 4.3% WO_3. A drill hole completed later that year yielded between 0.02% and 0.08% WO_3 in drill core across narrow widths. Three samples taken at the Blue Lite Showing in 2009 returned greater than 0.10% tungsten with a peak of 0.34%. Most of the other samples ranged from 200 to 950 ppm tungsten. Gold values were all below background, with a peak of 9 ppb.

Gold-Bearing Quartz-Boulangerite Vein

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

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

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

In 1988, NDU Resources collected rock samples in the areas identified by Cominco and Prism as being anomalous for zinc. Samples were collected from two blocky quartz veins, one with blebby galena and the other with jamesonite and boulangerite. The sample containing blebby

galena graded greater than 1% lead while the sample containing jamesonite boulangerite contained greater than 1% lead and greater than 100 g/t silver (Cathro, 1989).

Prospecting by ATAC in 2009 revealed that these anomalies appears to follow stratigraphy but are locally overprinted by one or more vein faults. The deep gully located near the Now Showing trends slightly oblique to bedding and corresponds to a main fault. Three of the six holes drilled by Prism are believed to have intersected this and are represented by gougy intervals surrounded by zones of intense veining. These intervals were not sampled. No outcrops of the vein were observed on surface but samples of float yielded encouraging results. A composite sample was made from chips collected from several mineralized coarse grained, white quartz vein boulders which contain up to 10 % galena and boulangerite aggregates along late fractures. This sample returned 0.02 g/t gold, 78.9 g/t silver, 1.84 % lead, and 412 ppm zinc. Another float sample collected nearby graded 1.03 g/t gold, 447 g/t silver, 13.45 % lead, and 350 ppm zinc.

Transported Gossans

Two transported gossans occur on the Rau Property separated by approximately eighteen kilometers. The **Kathy Showing** comprises a 40 m wide by 30 m long brick red gossanous ferricrete slab, located approximately 750 m southeast of the Rackla Pluton. The gossan is situated downhill of a thrust fault that places Earn Group shale, to the south, over Bouvette Formation carbonates to the north. It is believed that the gossan is formed by fluids traveling along this thrust fault. Soil samples collected by Prism in 1978 returned silver values between 0.08 g/t and 25 g/t, lead values ranging from 32 to 90 ppm and zinc values ranging from 95 to 3900 ppm. Results for other elements were not reported.

The **EL Showing** (also referred to as Ocelot is located 11.5 km northwest of Monument Hill and was first identified by Prism in 1978. The showing is marked by a 110 m long by 25 m wide gossan, which formed by the precipitation of iron oxides containing silver, lead and zinc from solutions traveling along a permeable horizon (Montgomery and Cavey, 1978). The gossan has a northwest orientation and parallels an adjacent topographic linear feature. The showing is most pronounced in a kill zone to the northwest, which originates at a weakly flowing spring.

The gossan is predominately dolomite rubble cemented by iron oxides and is surrounded by buff to orange weathering dolomite and limestone. Soil samples collected by Prism returned peak values of 3.8 g/t silver, 800 ppm lead and 12.2% zinc.

In 2008, ATAC established a small soil grid over the gossan. Samples from this program returned peak values of 345 ppm lead and 4860 ppm zinc, while a nearby stream sediment sample returned 306 ppm lead and 1.8% zinc (Dumala, 2009).

Other

Prospecting in the Grey Copper Hill area was limited to a single day in 2009 and comprised quick stops along prominent ridges. One ridge, located approximately 7.5 km east of Grey Copper Hill contained abundant limonite float within a gully known as the ***** Showing**. One

sample returned 186 g/t silver, >1% arsenic, 0.287% zinc, 0.176% lead and 0.895% copper. Three other limonite samples ranged from 0.92 to 3.92 g/t silver and had a peak arsenic value of 2740 ppm. Altered volcaniclastic float was also found and yielded 2.91 g/t silver.

GEOCHEMISTRY

General

In 2009, crews performed grid and contour sampling along the favourable structural corridor defining the Tiger Zone mineralization and at the Now and Blue Lite showings. Samples were also taken along a 20 km long trend encompassing the central ridge system located to the southwest of the structural corridor, and from a line running along the crest of this ridge system. Soil sample locations are shown on Figures 16 to 18, while results for gold, silver, arsenic, bismuth, lead, zinc and tungsten are shown on Figures 19 to 25, respectively.

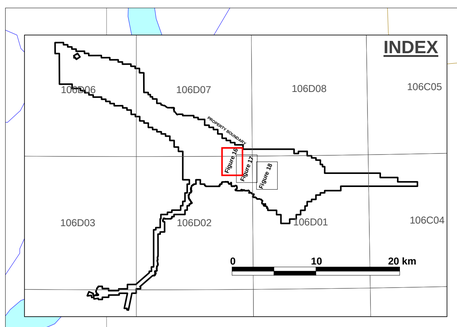
At the northwest end of the trend where topography permitted, grid samples were collected at 50 m intervals along lines spaced 200 m apart. Samples taken around the existing 2008 soil grids were completed on a 50 m by 50 m grid. Around Monument Hill, steep terrain required sampling to be done along contours. These samples were collected at 50 m intervals along lines spaced 100 m to 200 m apart. The relative line positions were established using handheld GPS, while sample spacing was maintained using compass and topofil. Sample sites are marked by wooden lath bearing aluminum tags inscribed with the corresponding sample number and the grid coordinates, where appropriate.

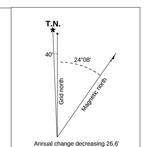
All soil samples were collected from holes, which were dug with a mattock or augered to depths of 20 to 50 cm below surface. The soil was taken from the bottom of the holes and placed in pre-numbered Kraft paper bags. Above treeline, the samples consisted of immature soils mixed with talus fines. At lower elevations, the sampled material mostly comprised residual soils mixed with glacially transported material.

The samples were transported from the property to Whitehorse in the custody of Archer Cathro employees. From there, they were shipped to ALS Chemex in North Vancouver. At the lab, soil samples were dried and screened to -35 mesh to produce a fine fraction, which was then pulverized to 85% passing 75 microns. Splits of the pulverized fraction were routinely dissolved in aqua regia and analyzed for 35 elements using the ICP-AES technique (ME-ICP41). All samples were also analyzed for gold using fire assay and ICP-AES (Au-ICP21). Certificates of Analysis appear in Appendix VI.

Results

Background and anomalous values for gold, silver, arsenic, bismuth, lead, zinc and tungsten were calculated for the 2674 soil samples collected from the property in 2009. Background averages, weak, moderate, strong and very strong anomalous thresholds approximately correspond to the 50^{th}, 90^{th}, 98^{th}, 99^{th} and 99.9^{th} percentiles. The geochemical characteristics are summarized in the following table.





7,126,000 mN

7,125,000 mN

7,124,000 mN

7,123,000 mN

7,122,000 mN

7,121,000 mN

518,000 mE

519,000 mE

520,000 mE

521,000 mE

522,000 mE

CDB

mPPFI

DME

CPps	Skolai Group		Thrust fault
CPI	Icefield Ranges Suite		High angle fault
DME	Earn Group	CC68759	Soil sample location
CDB	Bouvette Formation (includes Coc, OSc and SDc)	Now	Showing location
CSM	Marmot Formation		
PCH	Hyland Group		
mPPFI	Fifteen Mile Group		
mPH	Hart River Formation		

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FIGURE 16

SOIL SAMPLE LOCATIONS

- WEST -

RAU PROPERTY

0 100 200 m

CONTOUR INTERVAL: 100 ft
UTM ZONE 8W, NAD 83, 1060 02/07

FILE: ...2009\RAU\F_16-SAMPLE_LOCATIONS.WOR | DATE: MARCH 2010

CDB

CSM

CPps

SDc

Osc

Coc

mPPFI

DME

Cheetah

Lynx

7,125,000 mN

7,124,000 mN

7,123,000 mN

7,122,000 mN

7,121,000 mN

7,120,000 mN

525,000 mE

T.N.

40°

24°08'

Grid north

Magnetic north

Annual change decreasing 26.6'

INDEX

106D06 106D07 106D08 106C05

106D03 106D02 106D01 106C04

Regional Location

Figure 16

Figure 17

Figure 18

0 10 20 km

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FIGURE 17

SOIL SAMPLE LOCATIONS

- CENTRAL -

RAU PROPERTY

0 100 200 m

CONTOUR INTERVAL 100 ft

UTM ZONE 8W, NAD 83, 106D 01/02/07/08

FILE: ...2009\RAU\F_17-SAMPLE_LOCATIONS.WOR | DATE: MARCH 2010

CPps	Skolai Group		
CPI	Icefield Ranges Suite		
DME	Earn Group		Thrust fault
CDB	Bouvette Formation (includes Coc, OSc and SDc)		High angle fault
CSM	Marmot Formation	CC68759	Soil sample location
PCH	Hyland Group	Now	Showing location
mPPFI	Fifteen Mile Group		
mPH	Hart River Formation		

T.N.
40
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'

7,124,000 mN
7,123,000 mN
7,122,000 mN
7,121,000 mN
7,120,000 mN

526,000 mE
527,000 mE
528,000 mE
529,000 mE

CPps
CSM
SDc
Osc
Coc
CSM
CSM
CSM
CSM
CSM
CSM
CSM

Puma
Panther
Cougar
Monument Hill
Jaguar
Repeater Hill
Cub
Lion
Tiger Zone

INDEX

106D06 106D07 106D08 106C
106D03 106D02 106D01 106C

Property outline
Phase 1A
Phase 1B
Phase 2A

0 10 20 km

CPps	Skolai Group		Thrust fault
CPl	Icefield Ranges Suite		High angle fault
DME	Earn Group	CC68759	Soil sample location
CDB	Bouvette Formation (includes Coc, OSc and SDc)	Now	Showing location
CSM	Marmot Formation		Area of 2007 & 2008 soil sampling
PCH	Hyland Group		
mPPFl	Fifteen Mile Group		
mPH	Hart River Formation		

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FIGURE 18

SOIL SAMPLE LOCATIONS
- EAST -
RAU PROPERTY

0 100 200 m

CONTOUR INTERVAL: 100 ft.
UTM ZONE 8W, NAD 83, 1990.01

FILE: ...2009\RAU\F_18-SAMPLE_LOCATIONS.WOR

DATE: MARCH 2010

T.N.
40°
24°08'
Grid North
Magnetic north
Annual change decreasing 26.6'

7 130 000 mN
7 125 000 mN
7 120 000 mN

515 000 mE
520 000 mE
525 000 mE
535 000 mE
540 000 mE

mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
CDB
CSM
mPPFI
DME
PCH
Dawson Thrust
ScD
CPps
CPl
Osc
Coc
TIGER ZONE
Rackla Pluton

Gold (ppb)
Soil Samples
- ≥500
- ≥200 <500
- ≥100 <200
- ≥50 <100
- ≥20 <50
- ≥10 <20
- ≥0 <10

Gold (ppb)
Stream Sediment Samples
- F ≥100 <200
- F ≥50 <100
- F ≥20 <50
- F ≥10 <20
- F ≥0 <10

Gold (g/t)
Grid Soil Samples
- 1
- 0.5
- 0.2
- 0.1
- 0.05
- 0.02
- 0.01
- 0

- Showing
- Thrust fault
- High angle fault
- Trace of oxide zone

CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFI	Fifteen Mile Group
mPH	Hart River Formation

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FIGURE 19

PROPERTY GEOCHEMISTRY
GOLD
RAU PROJECT

0 0.5 1.0 1.5 2.0 2.5 km
UTM ZONE 8W. NAD83. 1060dG1, 02, 07 & 08

FILE: ...2009/RAU/F_19-GOLD_GEOCHEM.WOR | DATE: MARCH 2010

T.N.
40°
24°08'
Grid North
Magnetic north
Annual change decreasing 26.6'

7 130 000 mN
7 125 000 mN
7 120 000 mN

515 000 mE
520 000 mE
525 000 mE
535 000 mE
540 000 mE

mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
CDB
CDB
CSM
mPPFl
DME
CSM
DME
ScD
CPl
CPps
CSM
DME
PCH
mPPFl
Coc
Osc
TIGER ZONE
Rackla Pluton
CPl
DME
Dawson Thrust

Silver (g/t)
Soil Samples
- ≥10.0
- ≥5.0 <10.0
- ≥2.0 <5.0
- ≥1.0 <2.0
- ≥0.5 <1.0
- ≥0.0 <0.5

Silver (g/t)
Stream Sediment Samples
- F ≥5.0
- F ≥2.0 <5.0
- F ≥1.0 <2.0
- F ≥0.5 <1.0
- F ≥0.0 <0.5

Silver (g/t)
Grid Soil Samples
- 10
- 5
- 2
- 1
- 0.5
- 0

- Showing
- Thrust fault
- High angle fault
- Trace of oxide zone

CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFl	Fifteen Mile Group
mPH	Hart River Formation

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FIGURE 20

PROPERTY GEOCHEMISTRY SILVER

RAU PROJECT

0 0.5 1.0 1.5 2.0 2.5 km

UTM ZONE 8W, NAD83; 106D01, 02, 07 & 08

FILE: ...2009/RAU/F_20-SILVER_GEOCHEM.WOR | DATE: MARCH 2010

T.N.
40°
24°08'
Grid North
Magnetic north
Annual change decreasing 26.6'

7 130 000 mN
7 125 000 mN
7 120 000 mN

mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
CDB
CDB
CSM
mPPFl
DME
CSM
DME
ScD
CPl
CPps
CSM
PCH
Osc
TIGER ZONE
mPPFl
Coc
Rackla Pluton
CPl
DME
Dawson Thrust

515 000 mE
520 000 mE
525 000 mE
535 000 mE
540 000 mE

Arsenic (ppm)
Soil Samples
- ≥5,000
- ≥1,000 <5,000
- ≥500 <1,000
- ≥200 <500
- ≥100 <200
- ≥50 <100
- ≥0 <50

Arsenic (ppm)
Stream Sediment Samples
- F ≥200 <500
- F ≥100 <200
- F ≥50 <100
- F ≥0 <50

Arsenic (ppm)
Grid Soil Samples
- 5,000
- 2,000
- 1,000
- 500
- 200
- 100
- 50
- 0

- Showing
- Thrust fault
- High angle fault
- Trace of oxide zone

CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFl	Fifteen Mile Group
mPH	Hart River Formation

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FIGURE 21

PROPERTY GEOCHEMISTRY
ARSENIC
RAU PROJECT

0 0.5 1.0 1.5 2.0 2.5 km

UTM ZONE 8W, NAD83; 106D01, 02, 07 & 08

FILE: ...2009/RAU/F_21-ARSENIC_GEOCHEM.WOR | DATE: MARCH 2010

T.N.
40°
24°08'
Grid North
Magnetic north
Annual change decreasing 26.6'

7 130 000 mN
7 125 000 mN
7 120 000 mN

515 000 mE
520 000 mE
525 000 mE
535 000 mE
540 000 mE

mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
CDB
CDB
CSM
mPPFl
DME
CSM
DME
ScD
CPl
CPps
CSM
PCH
mPPFl
Coc
Osc
TIGER ZONE
Rackla Pluton
CPl
DME
Dawson Thrust

F
F
F
F

Bismuth (ppm)
Soil Samples
≥200
≥100 <200
≥50 <100
≥20 <50
≥10 <20
≥0 <10

Bismuth (ppm)
Stream Sediment Samples
F ≥20
F ≥10 <20
F ≥5 <10
F ≥0 <5

Bismuth (ppm)
Grid Soil Samples
500
200
100
50
20
10
0

Showing
Thrust fault
High angle fault
Trace of oxide zone

CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFl	Fifteen Mile Group
mPH	Hart River Formation

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FIGURE 22

PROPERTY GEOCHEMISTRY
BISMUTH
RAU PROJECT

0 0.5 1.0 1.5 2.0 2.5 km

UTM ZONE 8W, NAD83; 106D01, 02, 07 & 08

FILE: ...2009/RAU/F_22-BISMUTH_GEOCHEM.WOR | DATE: MARCH 2010

T.N.
40°
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'

7 130 000 mN
7 125 000 mN
7 120 000 mN

515 000 mE
520 000 mE
525 000 mE
535 000 mE
540 000 mE

mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
CDB
CDB
CSM
mPPFl
DME
CSM
DME
ScD
CPps
CPl
CSM
PCH
mPPFl
Coc
DME
Osc
TIGER ZONE
Rackla Pluton
CPl
Dawson Thrust

Lead (ppm)
Soil Samples
- ≥2,000
- ≥1,000 <2,000
- ≥500 <1,000
- ≥200 <500
- ≥100 <200
- ≥50 <100
- ≥0 <50

Lead (ppm)
Stream Sediment Samples
- F ≥200 <500
- F ≥100 <200
- F ≥50 <100
- F ≥0 <50

Lead (ppm)
Grid Soil Samples
- 2,000
- 1,000
- 500
- 200
- 100
- 50
- 20
- 0

- Showing
- Thrust fault
- High angle fault
- Trace of oxide zone

CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFl	Fifteen Mile Group
mPH	Hart River Formation

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FIGURE 23

PROPERTY GEOCHEMISTRY
LEAD
RAU PROJECT

0 0.5 1.0 1.5 2.0 2.5 km

UTM ZONE 8W, NAD83; 106D01, 02, 07 & 08

FILE: ...2009/RAU/F_23-LEAD_GEOCHEM.WOR | DATE: MARCH 2010

T.N.
40°
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'

7 130 000 mN
7 125 000 mN
7 120 000 mN

515 000 mE
520 000 mE
525 000 mE
535 000 mE
540 000 mE

mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
CDB
CDB
CSM
mPPFl
DME
CSM
DME
ScD
CPps
CPl
CSM
CPl
Osc
TIGER ZONE
mPPFl
Coc
Rackla Pluton
DME
PCH
Dawson Thrust

Zinc (ppm)
Soil Samples
- ≥10,000
- ≥5,000 <10,000
- ≥2,000 <5,000
- ≥1,000 <2,000
- ≥500 <1,000
- ≥200 <500
- ≥0 <200

Zinc (ppm)
Stream Sediment Samples
- ≥2,000
- ≥1,000 <2,000
- ≥500 <1,000
- ≥200 <500
- ≥0 <200

Zinc (ppm)
Grid Soil Samples
- 10,000
- 5,000
- 2,000
- 1,000
- 500
- 200
- 0

- Showing
- Thrust fault
- High angle fault
- Trace of oxide zone

CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFl	Fifteen Mile Group
mPH	Hart River Formation

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FIGURE 24

PROPERTY GEOCHEMISTRY
ZINC
RAU PROJECT

0 0.5 1.0 1.5 2.0 2.5 km

UTM ZONE 8W, NAD83; 106D01, 02, 07 & 08

FILE: ...2009/RAU/F_24-ZINC_GEOCHEM.WOR | DATE: MARCH 2010

T.N.
40°
24°08'
Grid North
Magnetic north
Annual change decreasing 26.6'

7 130 000 mN
7 125 000 mN
7 120 000 mN

mPH
Kathleen Lakes Thrust
PROPERTY BOUNDARY
CDB
CDB
CSM
mPPFl
DME
CSM
ScD
CPps
CPl
DME
PCH
CSM
Osc
TIGER ZONE
CPl
mPPFl
Coc
Rackla Pluton
DME
Dawson Thrust

515 000 mE
520 000 mE
525 000 mE
535 000 mE
540 000 mE

Tungsten (ppm)
Soil Samples
- ≥500
- ≥200 <500
- ≥100 <200
- ≥50 <100
- ≥20 <50
- ≥10 <20
- ≥0 <10

Tungsten (ppm)
Stream Sediment Samples
- F ≥50
- F ≥20 <50
- F ≥10 <20
- F ≥0 <10

Tungsten (ppm)
Grid Soil Samples
- 1,000
- 500
- 200
- 100
- 50
- 20
- 10
- 0

- Showing
- Thrust fault
- High angle fault
- Trace of oxide zone

CPps	Skolai Group
CPl	Icefield Ranges Suite
DME	Earn Group
CDB	Bouvette Formation (includes Coc, OSc and SDc)
CSM	Marmot Formation
PCH	Hyland Group
mPPFl	Fifteen Mile Group
mPH	Hart River Formation

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FIGURE 25

PROPERTY GEOCHEMISTRY
TUNGSTEN
RAU PROJECT

0 0.5 1.0 1.5 2.0 2.5 km

UTM ZONE 8W , NAD83, 1/50,01, 02, 07 & 08

FILE: ...2009/RAU/F_25-TUNGSTEN_GEOCHEM.WOR | DATE: MARCH 2010

Table II: Geochemical Characteristics for 2009 Soil Samples

Level	Gold	Silver	Arsenic	Bismuth	Lead	Zinc	Tungsten
Background	3	0.3	17	1	32	182	5
Weak	24	1.9	106	8	367	1154	10
Moderate	86	3.8	255	30	782	2106	30
Strong	175	5.4	514	72	1207	3624	70
Very Strong	1062	13.6	3821	328	7624	1.25%	629
Peak	9880	102	>1%	699	2.15%	2.3%	1830

(all values are ppm except gold which is ppb)

Grid samples and adjoining contour samples collected from a south facing cirque, 1.7 km northwest of the Tiger Zone, yielded moderately to strongly anomalous lead, zinc and silver. Peak values include 2570 ppm lead and 1.44% zinc from a sample collected along the ridge at the northern edge of the sample grid. While a sample 350 m to the south produced 10.3 g/t silver. These samples lie within a 600 m long, north striking anomalous trend that cuts obliquely across the hillside. A second group of weakly to moderately anomalous samples occur along the western edge of the sample grid. Gold values within this valley are mostly background level with the exception of two values yielding 88 ppb and 127 ppb.

At the Cheetah Showing, a 310 m long string of samples returned moderately to strongly anomalous values for gold, silver, arsenic, bismuth, lead, zinc and tungsten. This corresponds to a distinctive gossanous float train that originates along the ridge. The highest values for all elements came from a select soil sample collected from a distinct northwest trending lineament on the ridge, near the apparent source. This sample returned 3.62 g/t gold, 16.10 g/t silver, 3020 ppm arsenic, 339 ppm bismuth, 6130 ppm lead, 4640 ppm zinc and 230 ppm tungsten.

Samples taken at the Puma Showing outlined a 120 m by 120 m area, near the base of a slope, with moderately anomalous gold, silver, arsenic and bismuth. Lead and zinc response is weakly to moderately anomalous over a slightly broader area. Samples collected from a sample line 300 m uphill also returned similarly anomalous results. The highest values at the Puma Showing came from an isolated sample located uphill along the ridge. This sample yielded 1.495 g/t gold, 8.1 g/t silver, 1270 ppm arsenic, 323 ppm bismuth, 1365 ppm lead, 2590 ppm zinc and 500 ppm tungsten.

Contour sampling at the Cougar Showing produced moderately anomalous gold results over a 250 m wide area that cuts across the hillside. Here, the peak gold value was 221 ppb. Bismuth values are moderately anomalous, with a peak of 123 ppm, and correlate well with gold. Lead and zinc both yielded weak to moderately anomalous results over a slightly broader area and have peak values of 1020 ppm and 1565 ppm, respectively.

Weak to moderately anomalous gold, arsenic, bismuth, lead and zinc values were obtained from samples taken from the ridge and valley at the Jaguar Showing. A peak value of 489 ppb gold was obtained from a soil taken near this showing, while a sample collected from the valley below produced 334 ppb gold. Samples collected to the west, along the ridge above the Cougar Showing, yielded 14.6 g/t silver and 1.19 % lead. The peak zinc value (2.30%) in this cirque

was derived from a sample collected along a ridge southeast of Monument Hill. This sample also returned 225 ppb gold, 287 ppm bismuth and 8180 ppm arsenic.

Grid samples collected further to the northwest, along the structural corridor, revealed a number of weakly anomalous areas. Because of the gentler terrain and deeper soil cover the results are generally more subdued, however, peak values include 851 ppb gold and 3.3 g/t silver from samples collected towards the western part of the grid and 2310 ppm zinc and 877 ppm lead from samples on the eastern part of the grid. A peak arsenic value of 212 ppm came from a sample taken near the centre of the grid.

At the Now Showing, grid sampling delineated an anomalous trend that coincides with a dominant northwest trending gully. Moderately anomalous gold and moderately to strongly anomalous silver and lead were also highlighted along this trend. Peak values include 712 ppb gold, 102 g/t silver 539 ppm arsenic and 2.15% lead, all from one sample located near the southeast edge of the grid. Zinc returned a peak value of 1.06% from a sample nearby. To the west of the gully, arsenic and lead are weakly anomalous, while only background values were identified to the east.

The most anomalous tungsten results in 2009, which include a peak value of 1830 ppm, came from samples collected around the Blue Lite showing. Gold and bismuth results are also strongly anomalous at this showing and reach peak values of 403 ppb and 699 ppm, respectively.

Samples collected along the central ridge, west of Monument Hill, and the encompassing 20 km reconnaissance sample line yielded mostly background gold, arsenic and bismuth results. Peak values were 63 ppb gold, 96 ppm arsenic and 18 ppm bismuth. A 2.7 km long string of samples, located east of the Now Showing, returned weakly to moderately anomalous silver results, with a peak of 10.8 g/t. Samples taken from a 1.1 km long segment of the reconnaissance line, east of the silver anomaly, show slightly elevated levels of lead. Most of these samples returned between 50 and 100 ppm lead and have a peak value of 532 ppm. Zinc values are slightly elevated along the line segments with anomalous silver and the lead. A peak value of 2400 ppm zinc was produced from the sample with the highest lead. Further to the east, south of the Lynx Showing, another short string of samples yielded slightly elevated zinc values. No other elements appear to be enriched here.

Samples collected from the El Gossan in 2009 returned only background gold values, with a peak of 8 ppb. Lead and zinc yielded the most anomalous results. Peak lead values include 596 ppm and 452 ppm, while zinc reached a peak of 1.195%. Other elements only produced isolated anomalies. These include 2.9 g/t silver, 502 ppm arsenic and 40 ppm tungsten.

A total of eleven reconnaissance soil samples were taken within and around the Kathy Gossan. These returned moderate to strongly anomalous zinc and tungsten values, with peaks of 7980 ppm zinc and 60 ppm tungsten. Arsenic, silver and bismuth results were slightly elevated to weakly anomalous. Peak values for these elements are 1490 ppm arsenic, 3.7 g/t silver and 8 ppm bismuth. Samples collected from a moderately flowing spring on the southeastern edge of the gossan produced peak gold, silver and zinc results.

DIAMOND DRILLING

General

Drilling was done between June 12 and September 25 and was contracted to Superior Diamond Drilling of Kelowna, BC. The work was completed with a Mandrill 1200 and two B-15 diesel-powered drills using BTW, NQ2 and HQ3 equipment. A total of 9578.30 m of diamond drilling were completed in 58 holes.

Most of the 2009 holes were located in and around the Tiger Zone and tested along a structural corridor over a strike length of 800 m (Figure 26). Individual drill sections are shown on Figures 27 to 45. Three scout holes were also located within the structural corridor, further along strike to the northwest and southeast, while a fourth scout hole tested a VTEM anomaly at the Cub Showing, northwest of the Tiger Zone.

To provide local survey control, a baseline was established through the drill area, parallel to the structural corridor. Control points were located at either end (10+550NW and 09+650NW) and in the middle (10+000NW) of the baseline using a Trimble Real Time Kinematic GPS unit. A Trimble Total Station was then used to locate section lines perpendicular to the base line and new drill sites. The baseline and each section line is marked by a one metre wide clearing through the bush with pickets located every 50 m along their length.

Once each drill hole was completed, the GPS was used to locate and record the final collar position. Collars are marked by scrap drill rods cemented into the hole, steel tag showing the hole number is affixed to each. All drill sites were constructed by hand using rock, soil and timber found nearby. Drill data for the holes is listed in Table III.

Table III: Drill Hole Data

Hole	Section	Easting	Northing	Elev. (m)	Azimuth	Angle	Depth (m)	Size	Note**
Rau-08-18	10+120NW	528537	7119241	1294	230°	-60°	322.93*	BTW	
Rau-09-19	10+300NW	528343	7119314	1354	228°	-60°	118.26	BTW	UTC
Rau-09-20	10+400NW	528287	7119394	1410	228°	-60°	162.61	BTW	
Rau-09-21	10+035NW	528413	7119028	1238	048°	-60°	160.94	HQ	
Rau-09-22	10+400NW	528287	7119395	1410	228°	-75°	210.62	BTW	
Rau-09-23	10+300NW	528343	7119315	1354	228°	-75°	99.98	HQ	UTC
Rau-09-24	09+850NW	528608	7118943	1300	228°	-60°	207.27	BTW	
Rau-09-25	10+300NW	528266	7119246	1342	048°	-55°	153.32	HQ	
Rau-09-26	10+120NW	528488	7119205	1282	228°	-60°	292.61	BTW	
Rau-09-27	10+300NW	528314	7119291	1340	228°	-60°	89.31	HQ	UTC
Rau-09-28	10+300NW	528391	7119354	1382	228°	-80°	121.92	BTW	UTC
Rau-09-29	10+300NW	528237	7119222	1350	048°	-55°	159.41	HQ	UTC
Rau-09-30	10+300NW	528212	7119200	1358	048°	-55°	222.51	BTW	
Rau-09-31	10+200NW	528421	7119246	1316	228°	-60°	80.16	HQ	UTC
Rau-09-32	10+300NW	528392	7119356	1382	048°	-70°	101.19	HQ	
Rau-09-33	10+200NW	528466	7119290	1335	228°	-65°	147.83	BTW	
Rau-09-34	10+250NW	528379	7119275	1331	228°	-60°	121.31	HQ (30.48 m NQ)	UTC
Rau-09-35	10+200NW	528466	7119290	1335	228°	-90°	221.29	BTW	
Rau-09-36	10+200NW	528442	7119266	1323	228°	-65°	193.55	BTW	
Rau-09-37	10+200NW	528389	7119222	1302	228°	-60°	122.84	HQ	

T.N.

40'

24°08'

Grid north

Magnetic north

Annual change decreasing 26.6'

10+500NW

10+400NW

10+300NW

10+200NW

10+100NW

10+000NW

9+900NW

9+800NW

9+700NW

9+600NW

9+500NW

9+400NW

10+000NE

RAU-09-49

RAU-09-52

RAU-09-20
RAU-09-22
RAU-09-39

RAU-09-38
RAU-09-41
RAU-09-57

RAU-09-28
RAU-09-32

RAU-09-56

RAU-09-19
RAU-09-23
RAU-09-48

RAU-09-53

RAU-09-27

RAU-09-33
RAU-09-35

RAU-09-50

RAU-09-34

RAU-09-64

RAU-09-36

RAU-09-25

RAU-09-51

RAU-08-16
RAU-09-31

RAU-08-18

RAU-09-29

RAU-09-55

RAU-09-37

RAU-09-46

RAU-09-30

RAU-09-40

RAU-09-26

RAU-09-58

RAU-09-71

RAU-08-06

RAU-09-42

RAU-09-43

RAU-09-70

RAU-08-04

RAU-08-07
RAU-08-08
RAU-08-12

RAU-09-69

RAU-08-02

RAU-09-66

RAU-08-11

RAU-08-03
RAU-09-21

RAU-09-67
RAU-09-68

RAU-09-60

RAU-08-05

RAU-09-62

RAU-09-59

RAU-09-45
RAU-09-65

RAU-09-63

RAU-09-47

RAU-08-09
RAU-09-44

RAU-09-61

RAU-08-14

RAU-09-24

RAU-08-10

RAU-SC09-01

RAU-08-13
RAU-09-54

RAU-08-15
RAU-08-15B

RAU-08-01

RAU-08-17

RAU-SC09-04

1600 m

1500 m

1400 m

1300 m

1200 m

1600 m

7 119 500 mN

7 119 000 mN

7 118 500 mN

528 500 mE

529 000 mE

Access Road

Access Road

Diamond drill hole

Helicopter pad

Fault

Hand trench

*Topography extracted from detailed Trimble RTK GPS survey

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FIGURE 26

DRILL HOLE LOCATIONS

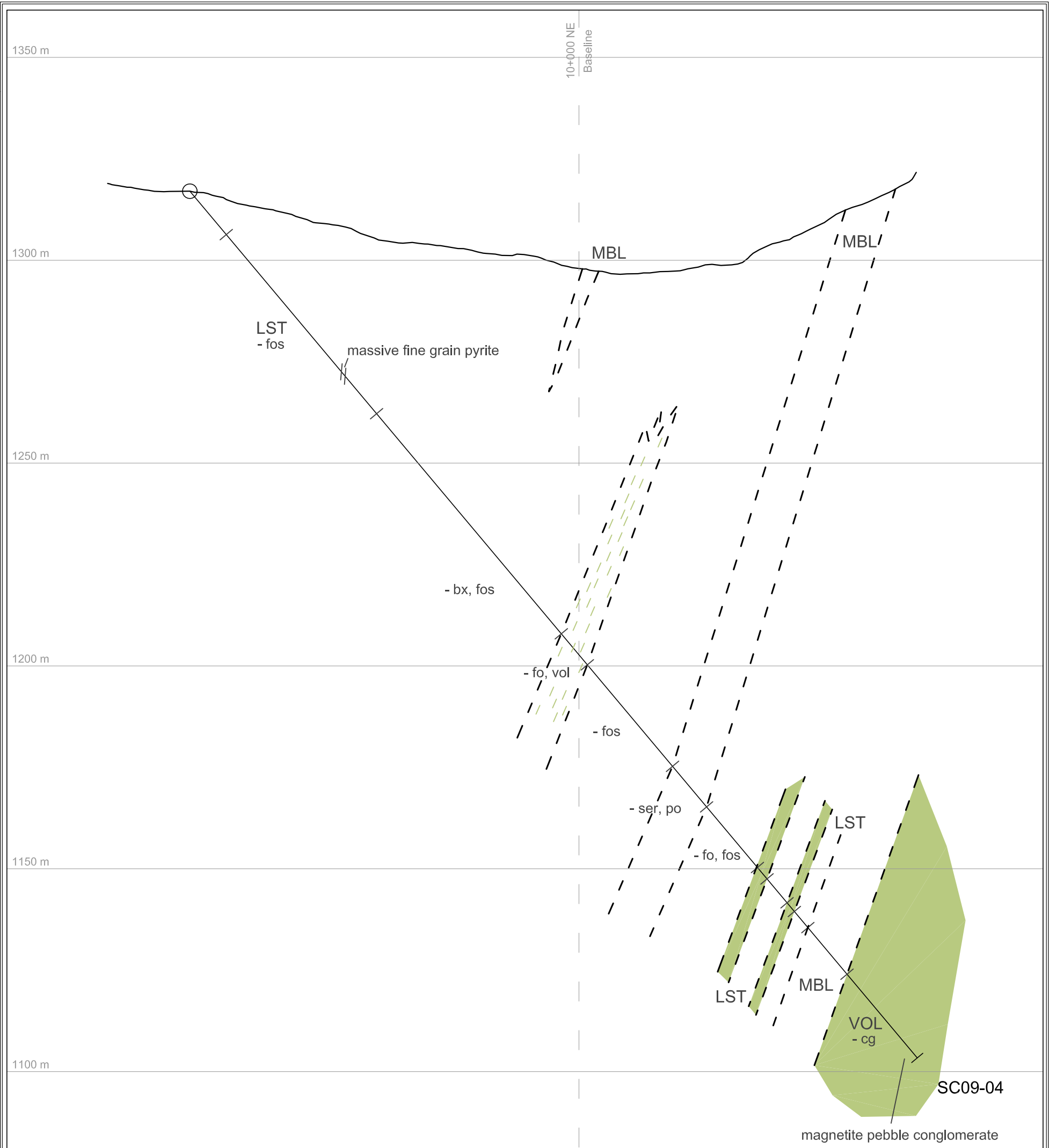
TIGER ZONE
RAU PROPERTY

0 50 100 150 200 m

UTM NAD 83, ZONE 8

FILE: ...2009\RAU\F_26-DRILL_HOLE_LOCATIONS.DWG

DATE: MARCH 2010



LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 27

SECTION 09+450NW

TIGER ZONE - EAST

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_27-09-450NW.DWG

DATE: MARCH 2010

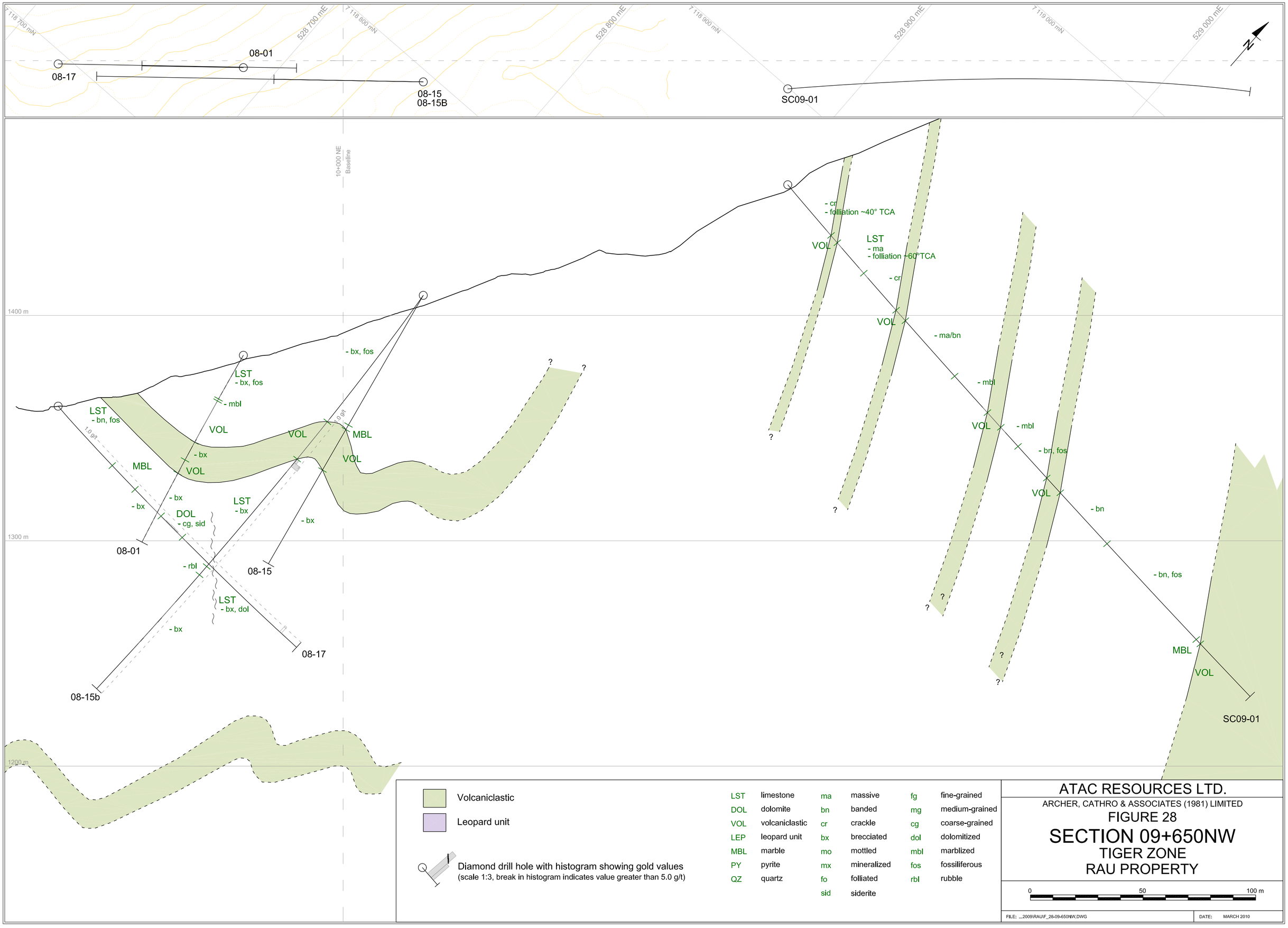
7 118 700 mN
528 700 mE
7 118 800 mN
528 800 mE
7 118 900 mN
528 900 mE
7 119 000 mN
529 000 mE
N
08-17
08-01
08-15
08-15B
SC09-01
10+000 NE
Baseline
1400 m
1300 m
1200 m
LST
- bx, fos
- mbl
LST
- bn, fos
1.0 g/t
VOL
MBL
- bx
VOL
VOL
MBL
VOL
- bx
- bx
DOL
- cg, sid
LST
- bx
- bx
- bx
08-01
08-15
- rbl
LST
- bx, dol
- bx
08-17
08-15b
- cr
- foliation ~40° TCA
VOL
LST
- ma
- foliation ~60°TCA
- cr
VOL
- ma/bn
- mbl
VOL
- mbl
- bn, fos
VOL
- bn
- bn, fos
MBL
VOL
SC09-01
?
Volcaniclastic
Leopard unit
Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)
LST limestone
DOL dolomite
VOL volcaniclastic
LEP leopard unit
MBL marble
PY pyrite
QZ quartz
ma massive
bn banded
cr crackle
bx brecciated
mo mottled
mx mineralized
fo folliated
sid siderite
fg fine-grained
mg medium-grained
cg coarse-grained
dol dolomitized
mbl marblized
fos fossiliferous
rbl rubble
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FIGURE 28
SECTION 09+650NW
TIGER ZONE
RAU PROPERTY
0
50
100 m
FILE: ...2009\RAU\F_28-09-650NW.DWG
DATE: MARCH 2010

528 600 mE
7 118 800 mN
528 700 mE
7 118 900 mN
528 800 mE
N
08-13
09-54
10+000 NE
Baseline
1400 m
1300 m
1200 m
1100 m
1000 m
LST
- bx
1.0 g/t
1.0 g/t
LST
- cr
QZ
- cr, mx(py, po)
- dol/mbl
- cr, mbl
- cr
- bx, mx(py)
- bx, dol
LST
- bx, dol
QZ
QZ
QZ
QZ
18
19
08-13
- bx, dol
- bx(w), dol
?
?
- mbl
- bx, mbl
- bx
09-54

Volcaniclastic (upper/discovery)
Leopard unit
Oxidation
Oxidized
Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

19 Petrographic sample

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-08-13	Sulphide	103.05	121.05	18.00	1.46	0.47	3	Upper
Rau-09-54	Sulphide	50.29	56.39	6.10	0.85	0.10	1	Upper

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FIGURE 29

SECTION 09+700NW

TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_29-09-700NW.DWG

DATE: MARCH 2010

528 500 mE
528 600 mE
7 118 900 mN
528 700 mE
7 119 000 mN
N
08-10
09-61
10+000 NE
Baseline
1400 m
1300 m
1200 m
1100 m
1000 m
1.0 g/t
LST
- bx
- folliation ~40° TCA
- mineralized interval (qz+py+po)
LST
- fo
- folliation 10-40° TCA
- bx
08-10
- contact 75° TCA
- folliation ~60° TCA
MBL
LST
- bx
?
?
DOL
- cg, mx
LST
- bx(w)
- dol, cr
LEP
09-61

Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-08-10	Sulphide	79.90	85.90	6.00	0.53	0.34	1	Upper
Rau-09-61	Sulphide	170.43	177.60	7.17	0.75	0.19	63	Upper
	Sulphide	317.40	340.46	23.06	3.36	0.77	107	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 30

SECTION 09+780NW

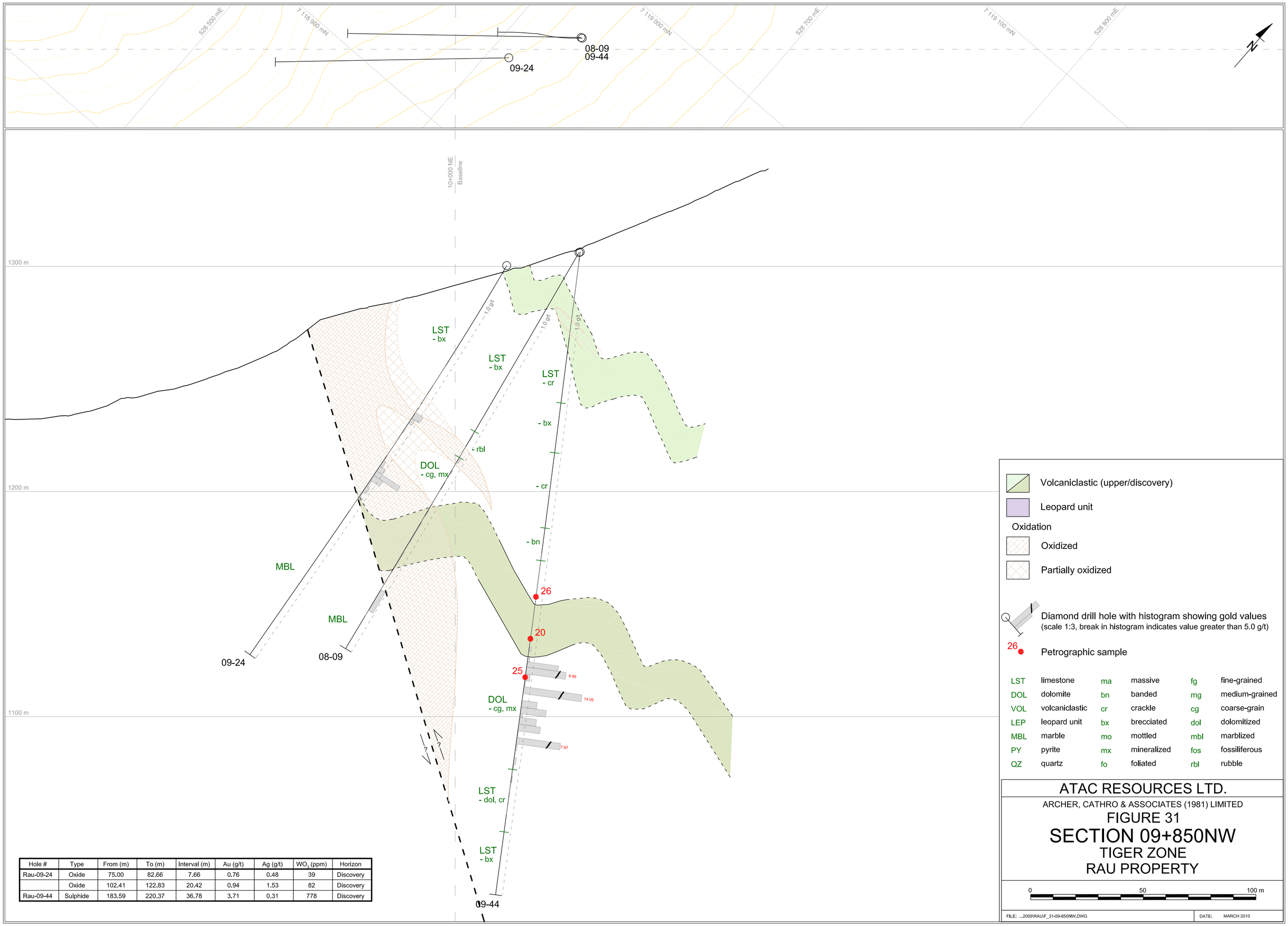
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_30-09-780NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-24	Oxide	75.00	82.66	7.66	0.76	0.48	39	Discovery
	Oxide	102.41	122.83	20.42	0.94	1.53	82	Discovery
Rau-09-44	Sulphide	183.59	220.37	36.78	3.71	0.31	778	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

26 Petrographic sample

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grain
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 31

SECTION 09+850NW

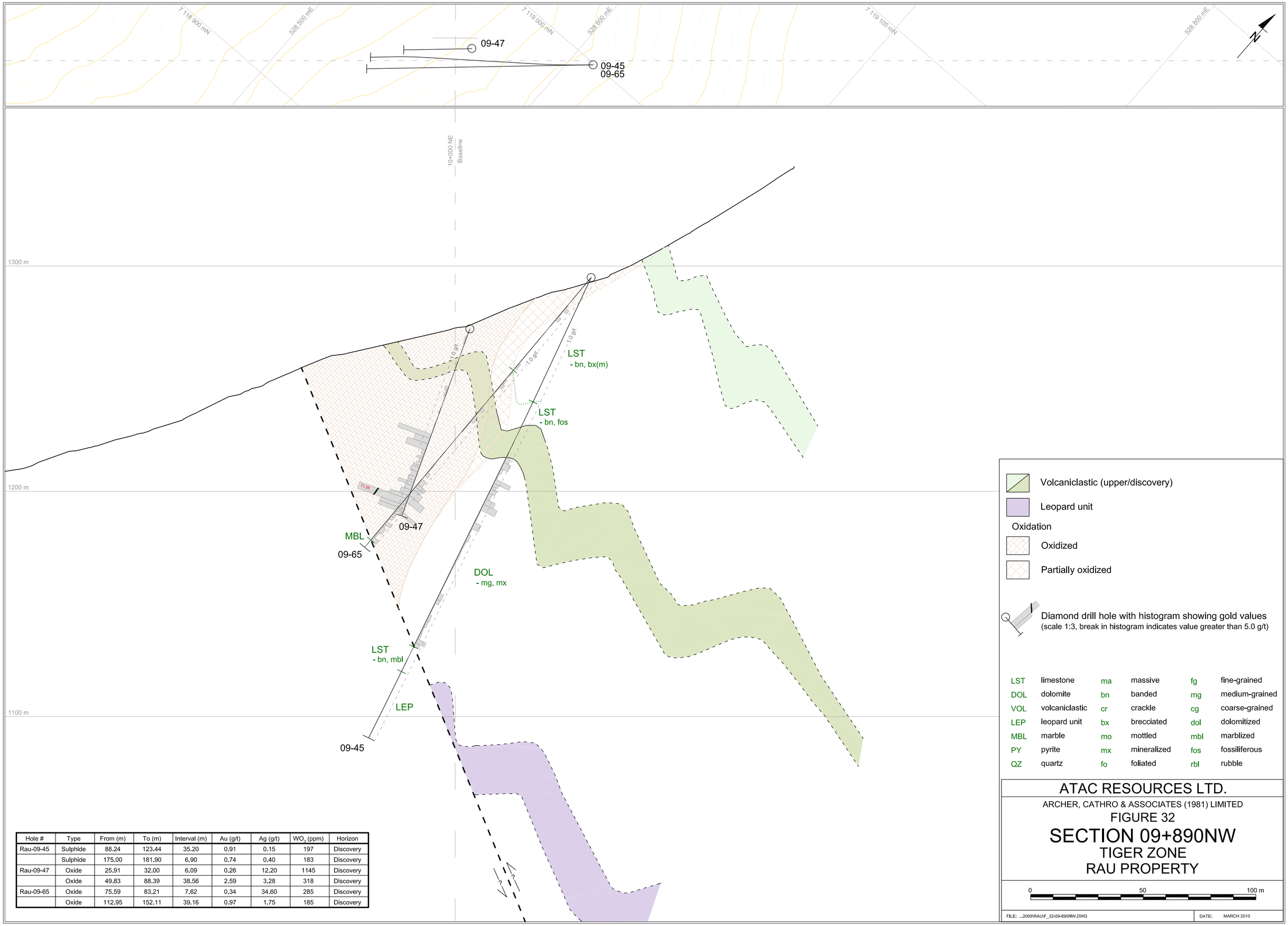
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_31-09-850NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-45	Sulphide	88.24	123.44	35.20	0.91	0.15	197	Discovery
	Sulphide	175.00	181.90	6.90	0.74	0.40	183	Discovery
Rau-09-47	Oxide	25.91	32.00	6.09	0.26	12.20	1145	Discovery
	Oxide	49.83	88.39	38.56	2.59	3.28	318	Discovery
Rau-09-65	Oxide	75.59	83.21	7.62	0.34	34.60	285	Discovery
	Oxide	112.95	152.11	39.16	0.97	1.75	185	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 32

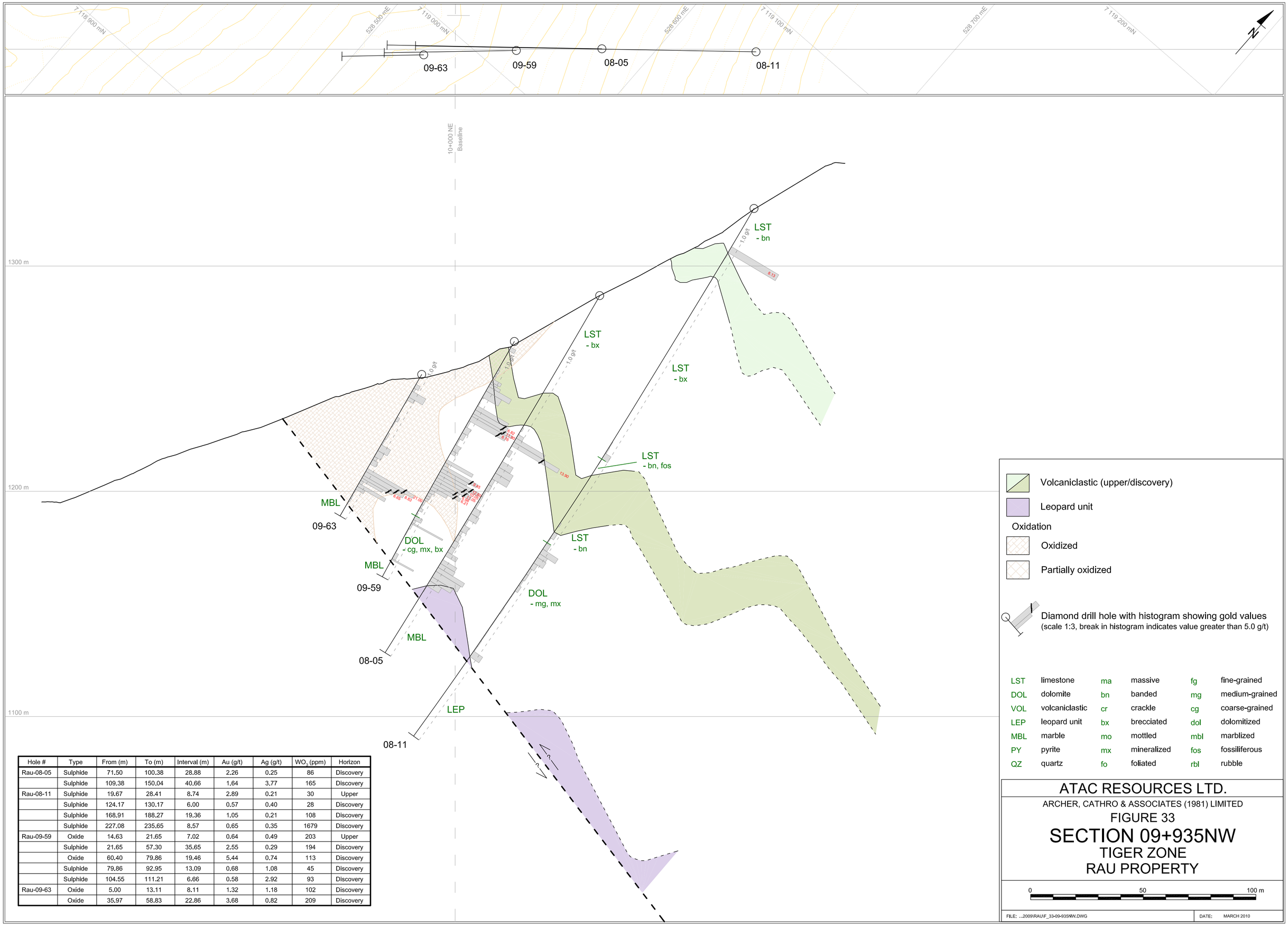
SECTION 09+890NW

TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_32-09-890NW.DWG DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-08-05	Sulphide	71.50	100.38	28.88	2.26	0.25	86	Discovery
	Sulphide	109.38	150.04	40.66	1.64	3.77	165	Discovery
Rau-08-11	Sulphide	19.67	28.41	8.74	2.89	0.21	30	Upper
	Sulphide	124.17	130.17	6.00	0.57	0.40	28	Discovery
	Sulphide	168.91	188.27	19.36	1.05	0.21	108	Discovery
	Sulphide	227.08	235.65	8.57	0.65	0.35	1679	Discovery
Rau-09-59	Oxide	14.63	21.65	7.02	0.64	0.49	203	Upper
	Sulphide	21.65	57.30	35.65	2.55	0.29	194	Discovery
	Oxide	60.40	79.86	19.46	5.44	0.74	113	Discovery
	Sulphide	79.86	92.95	13.09	0.68	1.08	45	Discovery
	Sulphide	104.55	111.21	6.66	0.58	2.92	93	Discovery
Rau-09-63	Oxide	5.00	13.11	8.11	1.32	1.18	102	Discovery
	Oxide	35.97	58.83	22.86	3.68	0.82	209	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 33

SECTION 09+935NW

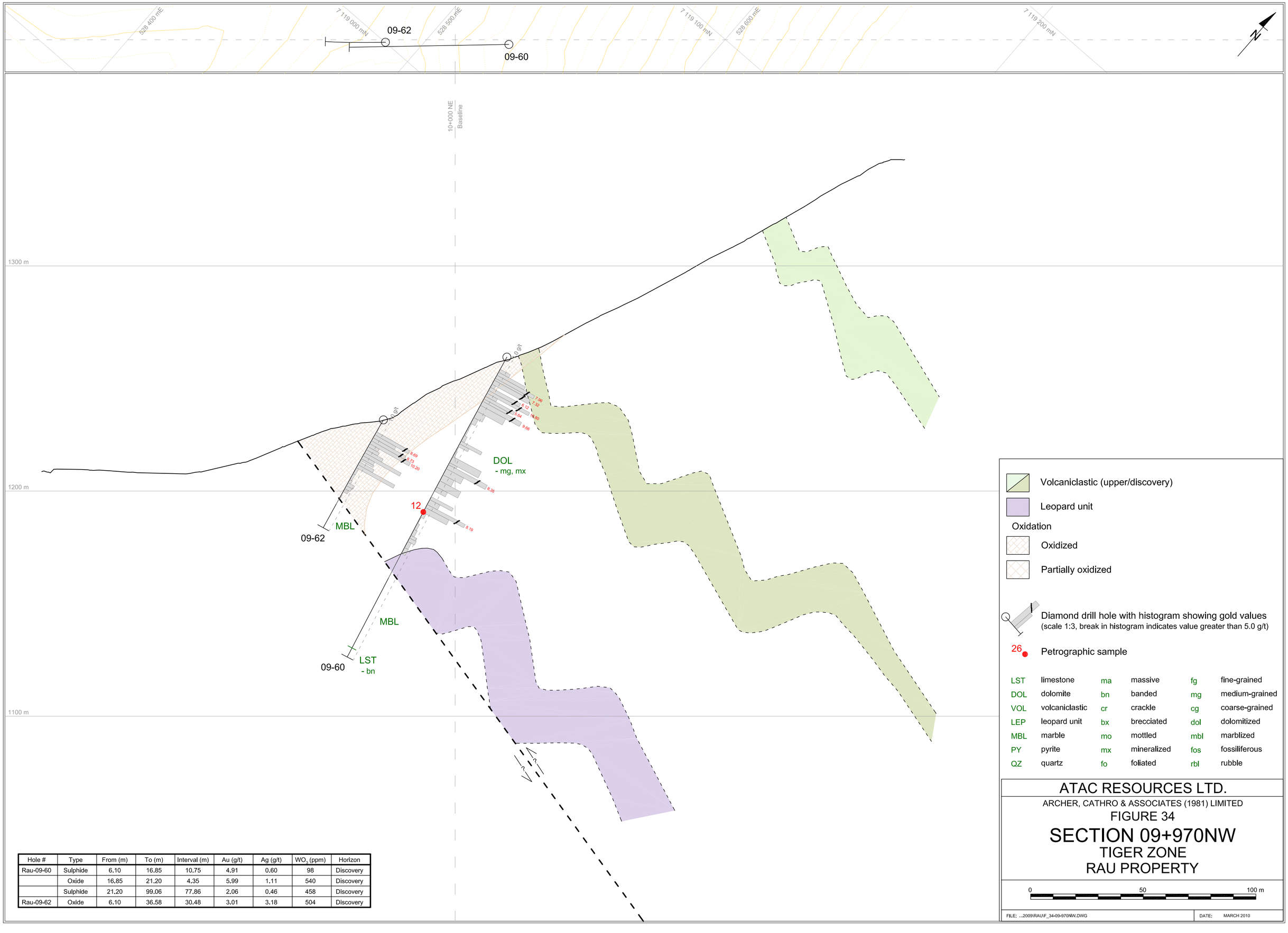
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_33-09-935NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-60	Sulphide	6.10	16.85	10.75	4.91	0.60	98	Discovery
	Oxide	16.85	21.20	4.35	5.99	1.11	540	Discovery
	Sulphide	21.20	99.06	77.86	2.06	0.46	458	Discovery
Rau-09-62	Oxide	6.10	36.58	30.48	3.01	3.18	504	Discovery

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FIGURE 34

SECTION 09+970NW

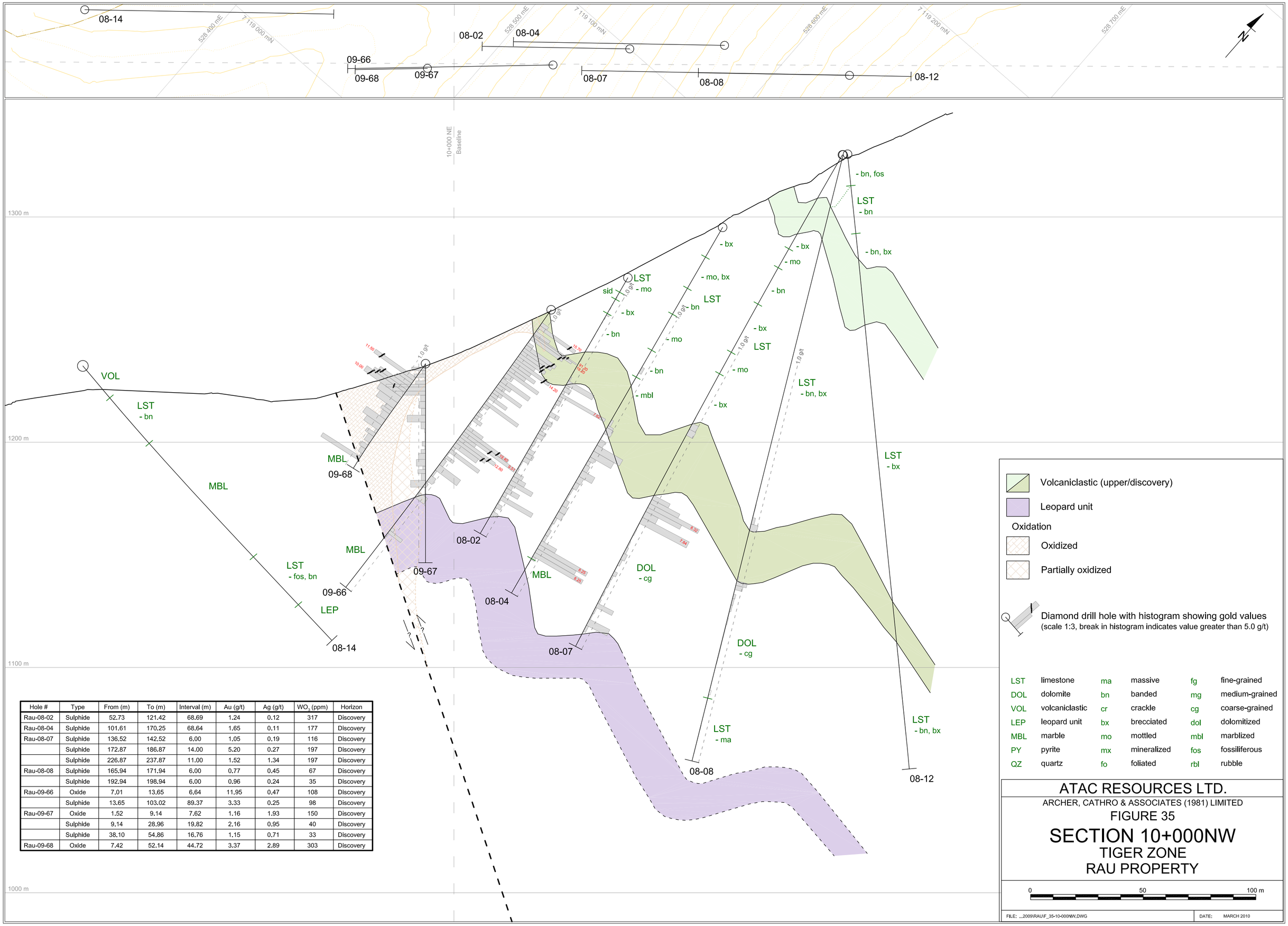
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_34-09-970NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-08-02	Sulphide	52.73	121.42	68.69	1.24	0.12	317	Discovery
Rau-08-04	Sulphide	101.61	170.25	68.64	1.65	0.11	177	Discovery
Rau-08-07	Sulphide	136.52	142.52	6.00	1.05	0.19	116	Discovery
	Sulphide	172.87	186.87	14.00	5.20	0.27	197	Discovery
	Sulphide	226.87	237.87	11.00	1.52	1.34	197	Discovery
Rau-08-08	Sulphide	165.94	171.94	6.00	0.77	0.45	67	Discovery
	Sulphide	192.94	198.94	6.00	0.96	0.24	35	Discovery
Rau-09-66	Oxide	7.01	13.65	6.64	11.95	0.47	108	Discovery
	Sulphide	13.65	103.02	89.37	3.33	0.25	98	Discovery
Rau-09-67	Oxide	1.52	9.14	7.62	1.16	1.93	150	Discovery
	Sulphide	9.14	28.96	19.82	2.16	0.95	40	Discovery
	Sulphide	38.10	54.86	16.76	1.15	0.71	33	Discovery
Rau-09-68	Oxide	7.42	52.14	44.72	3.37	2.89	303	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 35

SECTION 10+000NW

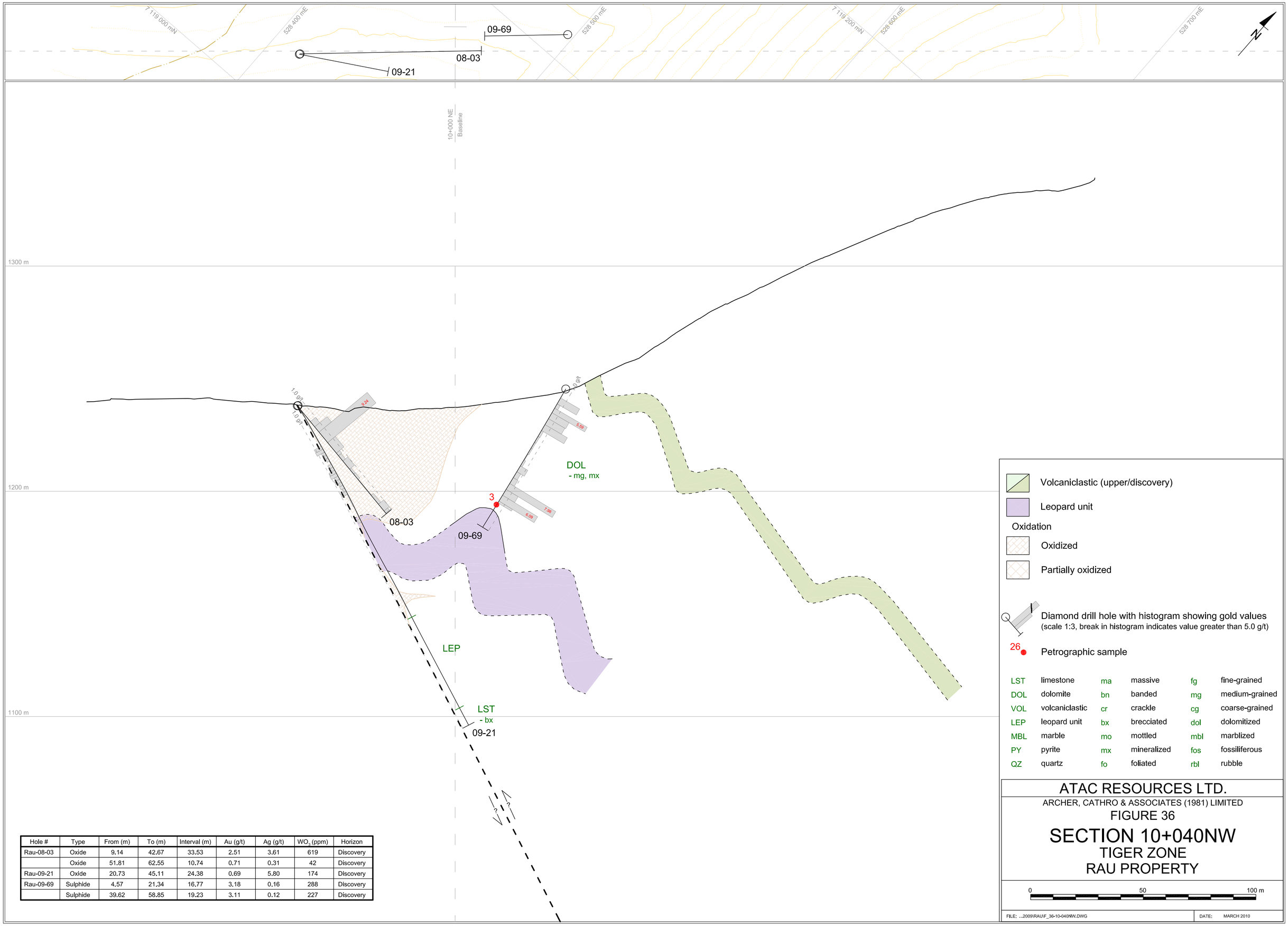
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_35-10-000NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-08-03	Oxide	9.14	42.67	33.53	2.51	3.61	619	Discovery
	Oxide	51.81	62.55	10.74	0.71	0.31	42	Discovery
Rau-09-21	Oxide	20.73	45.11	24.38	0.69	5.80	174	Discovery
Rau-09-69	Sulphide	4.57	21.34	16.77	3.18	0.16	288	Discovery
	Sulphide	39.62	58.85	19.23	3.11	0.12	227	Discovery

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FIGURE 36

SECTION 10+040NW
TIGER ZONE
RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_36-10-040NW.DWG

DATE: MARCH 2010

7 119 000 mN
528 400 mE
7 119 100 mN
528 500 mE
7 119 200 mN
528 600 mE
7 119 300 mN
N
08-70
10+000 NE
Baseline
1300 m
1,0 g/t
DOL
- mg, mx
09-70
1200 m
1100 m

Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-70	Sulphide	10.30	28.96	18.66	1.63	0.11	256	Discovery
	Sulphide	35.20	53.34	18.14	0.50	0.14	78	Discovery
	Sulphide	60.96	67.50	6.54	1.71	0.09	43	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 37

SECTION 10+080NW

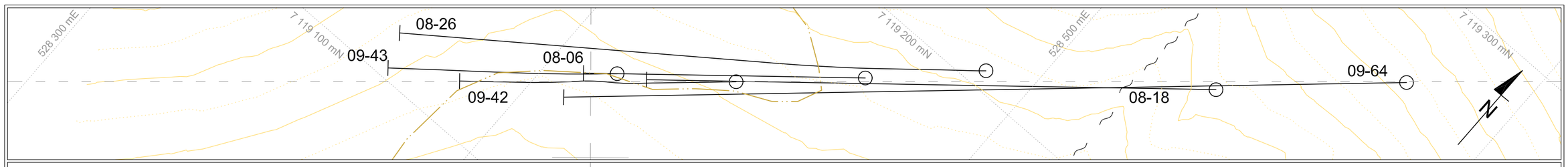
TIGER ZONE

RAU PROPERTY

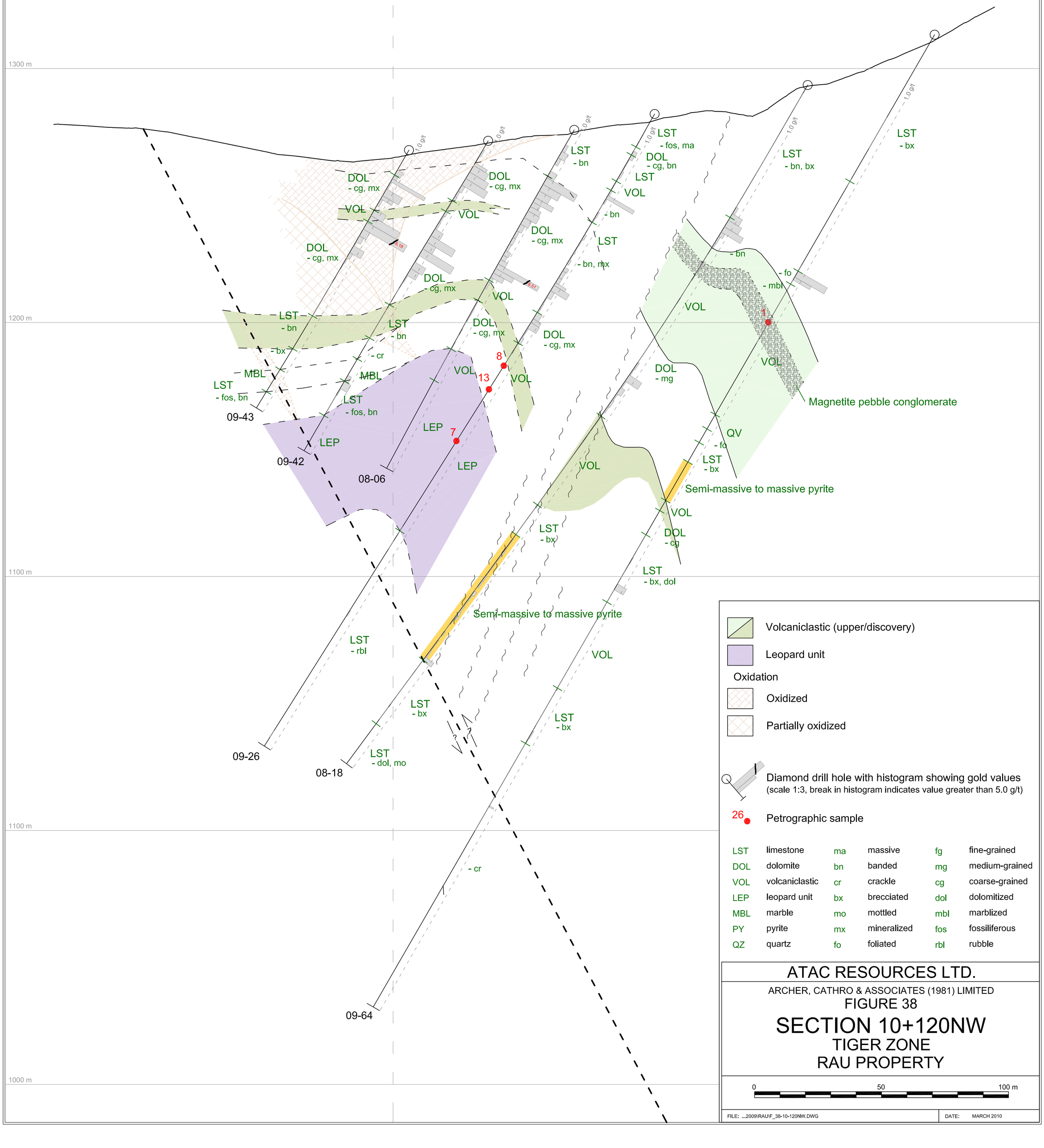
0 50 100 m

FILE: ...2009\RAU\F_37-10-080NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-08-06	Sulphide	9.70	45.70	36.00	1.57	0.18	183	Discovery
	Sulphide	54.70	66.70	12.00	2.56	0.14	113	Discovery
Rau-08-18	Sulphide	58.72	69.20	10.48	1.83	0.24	332	Upper
	Sulphide	134.02	143.02	9.00	0.93	0.11	381	Discovery
Rau-09-26	Sulphide	34.62	40.84	6.22	1.11	0.13	1648	Discovery
	Sulphide	69.94	83.82	13.88	0.97	0.11	745	Discovery
	Sulphide	90.73	98.15	7.42	1.06	0.14	433	Discovery
Rau-09-42	Sulphide	10.06	23.00	12.94	2.27	0.12	478	Discovery
	Sulphide	40.54	61.87	21.33	2.04	0.14	143	Discovery
	Sulphide	107.59	113.69	6.10	0.80	0.14	71	Discovery
Rau-09-43	Oxide	8.95	48.90	39.95	1.91	2.32	414	Discovery
Rau-09-64	Sulphide	104.97	111.55	6.58	2.34	0.19	98	Upper
	Sulphide	219.25	225.55	6.30	1.38	0.45	6	Discovery
	Sulphide	246.89	254.35	7.46	0.51	2.62	4	Discovery



Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

26 Petrographic sample

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

ATAC RESOURCES LTD.

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 38

SECTION 10+120NW

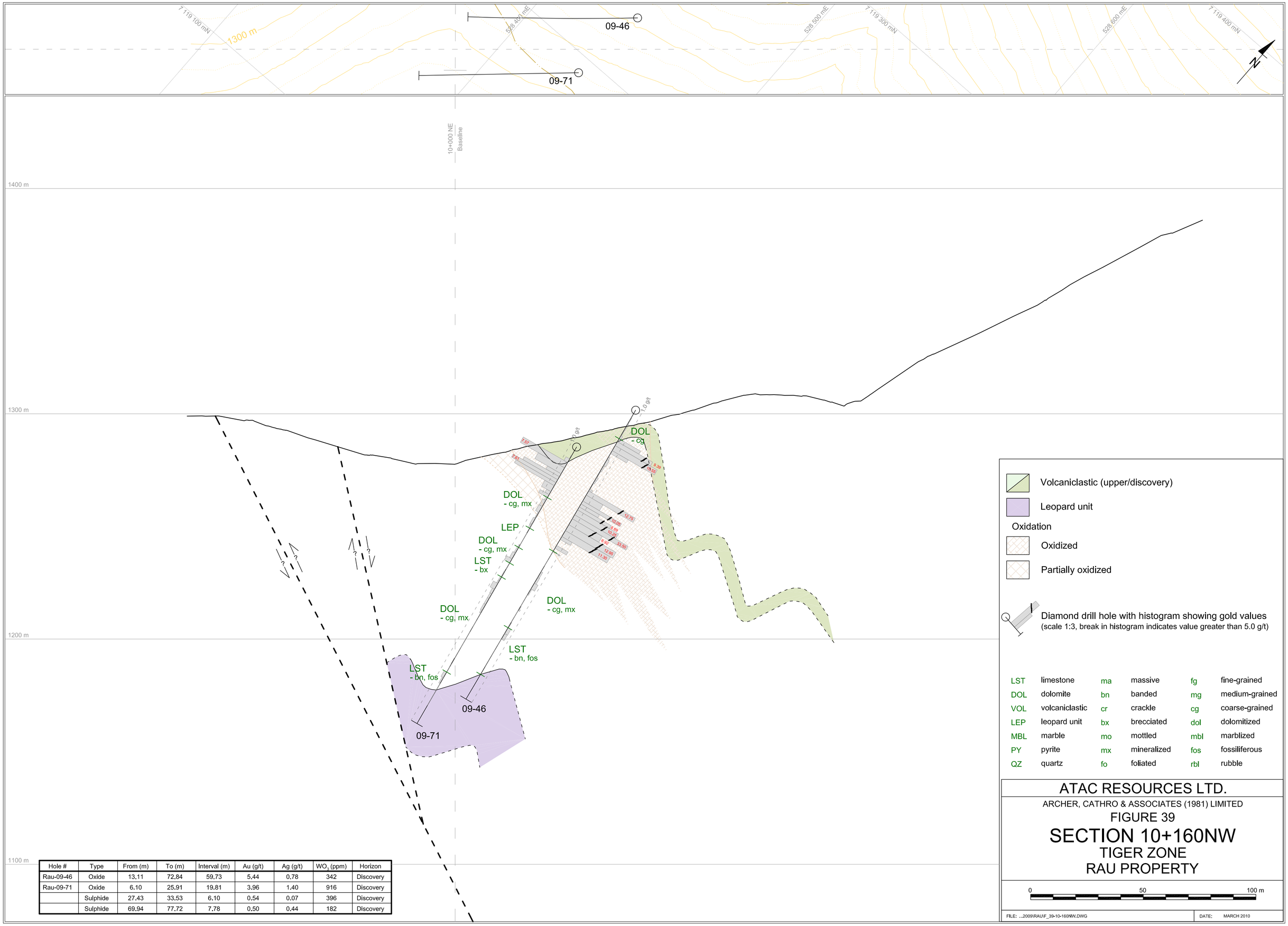
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_38-10-120NW.DWG

DATE: MARCH 2010



LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-46	Oxide	13.11	72.84	59.73	5.44	0.78	342	Discovery
Rau-09-71	Oxide	6.10	25.91	19.81	3.96	1.40	916	Discovery
	Sulphide	27.43	33.53	6.10	0.54	0.07	396	Discovery
	Sulphide	69.94	77.72	7.78	0.50	0.44	182	Discovery

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FIGURE 39

SECTION 10+160NW

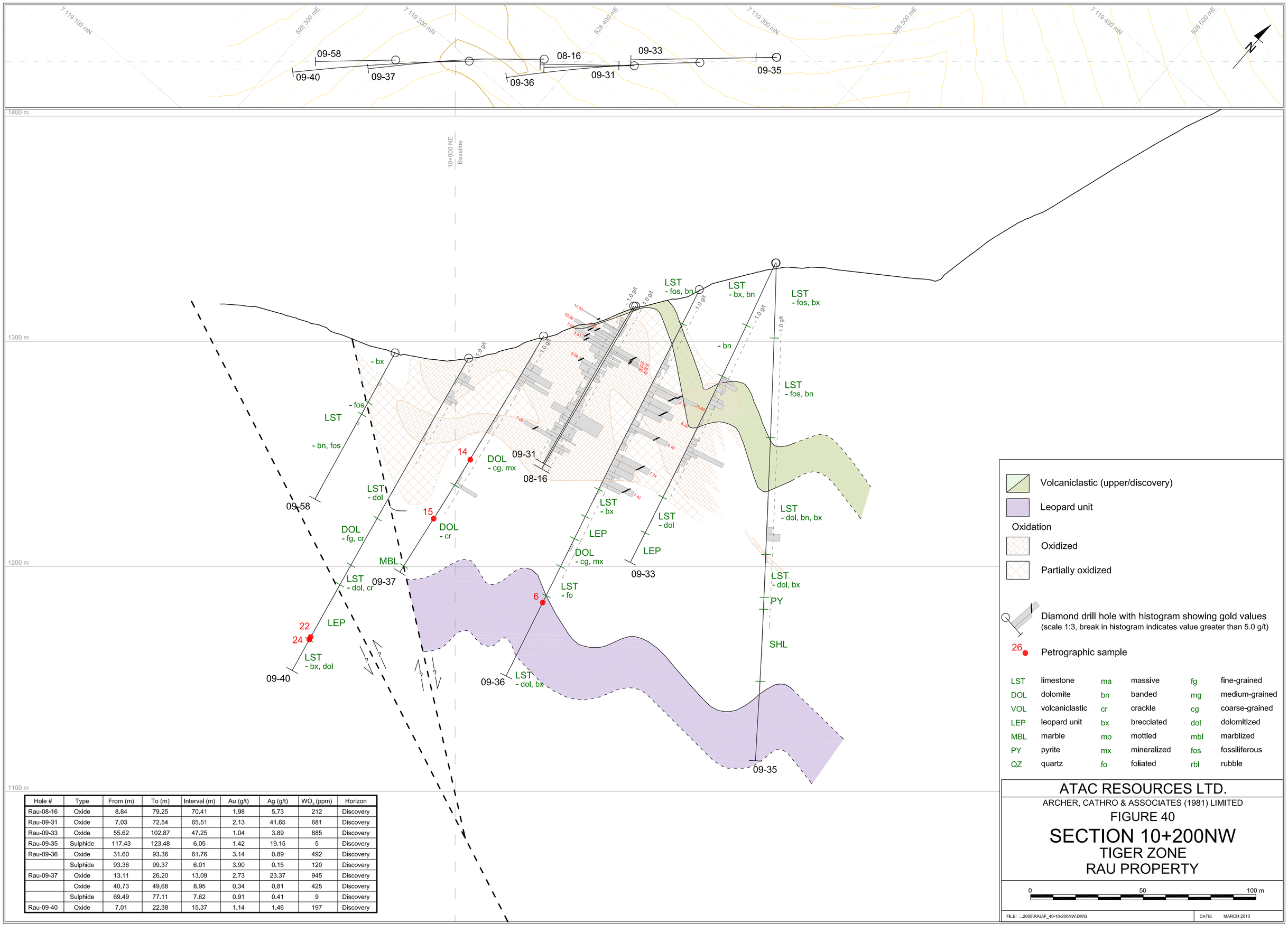
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_39-10-160NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-08-16	Oxide	8.84	79.25	70.41	1.98	5.73	212	Discovery
Rau-09-31	Oxide	7.03	72.54	65.51	2.13	41.65	681	Discovery
Rau-09-33	Oxide	55.62	102.87	47.25	1.04	3.89	885	Discovery
Rau-09-35	Sulphide	117.43	123.48	6.05	1.42	19.15	5	Discovery
Rau-09-36	Oxide	31.60	93.36	61.76	3.14	0.89	492	Discovery
	Sulphide	93.36	99.37	6.01	3.90	0.15	120	Discovery
Rau-09-37	Oxide	13.11	26.20	13.09	2.73	23.37	945	Discovery
	Oxide	40.73	49.68	8.95	0.34	0.81	425	Discovery
	Sulphide	69.49	77.11	7.62	0.91	0.41	9	Discovery
Rau-09-40	Oxide	7.01	22.38	15.37	1.14	1.46	197	Discovery

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FIGURE 40

SECTION 10+200NW

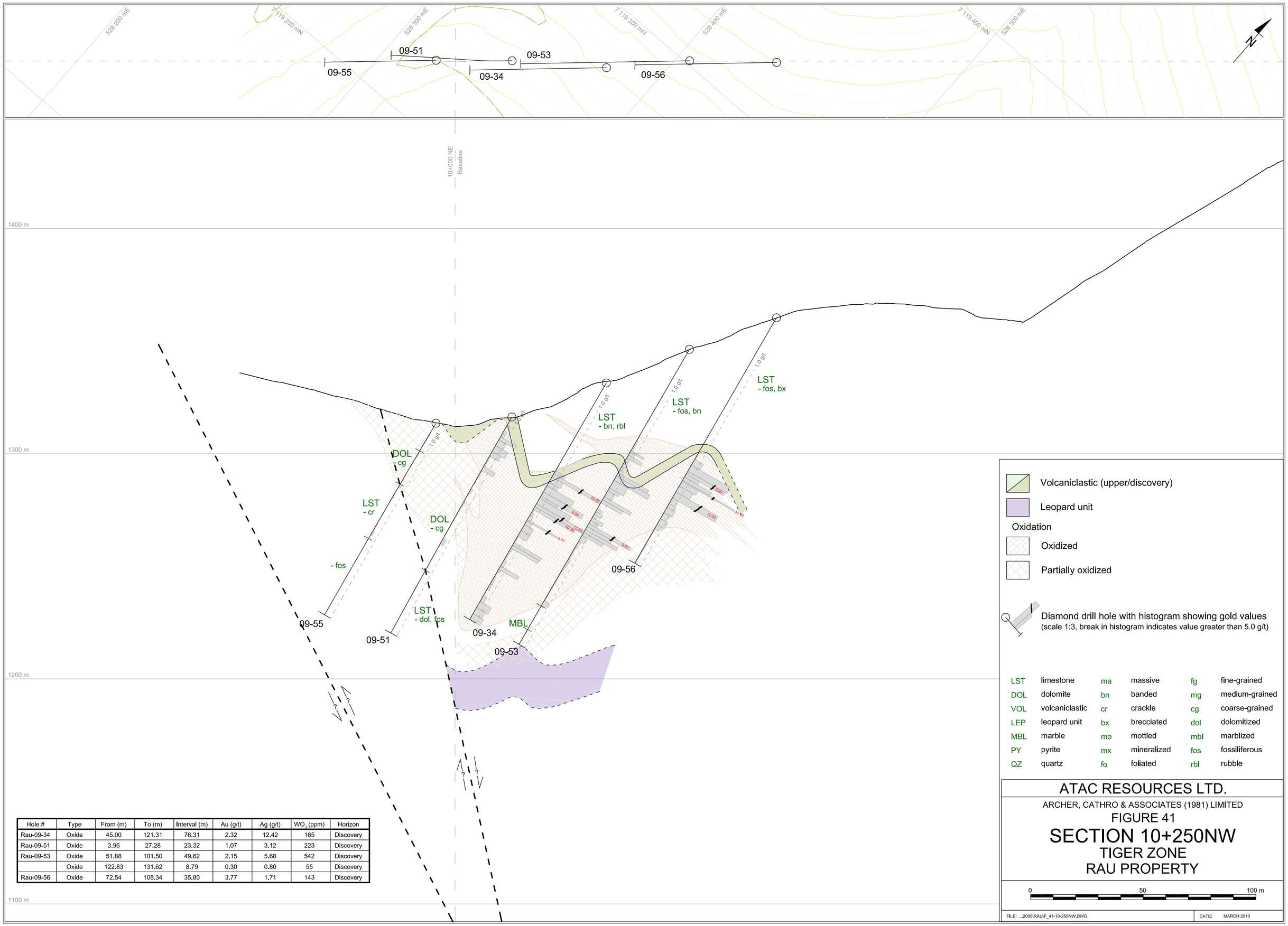
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_40-10-200NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-34	Oxide	45.00	121.31	76.31	2.32	12.42	165	Discovery
Rau-09-51	Oxide	3.96	27.28	23.32	1.07	3.12	223	Discovery
Rau-09-53	Oxide	51.88	101.50	49.62	2.15	5.68	542	Discovery
	Oxide	122.83	131.62	8.79	0.30	0.80	55	Discovery
Rau-09-56	Oxide	72.54	108.34	35.80	3.77	1.71	143	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 41

SECTION 10+250NW

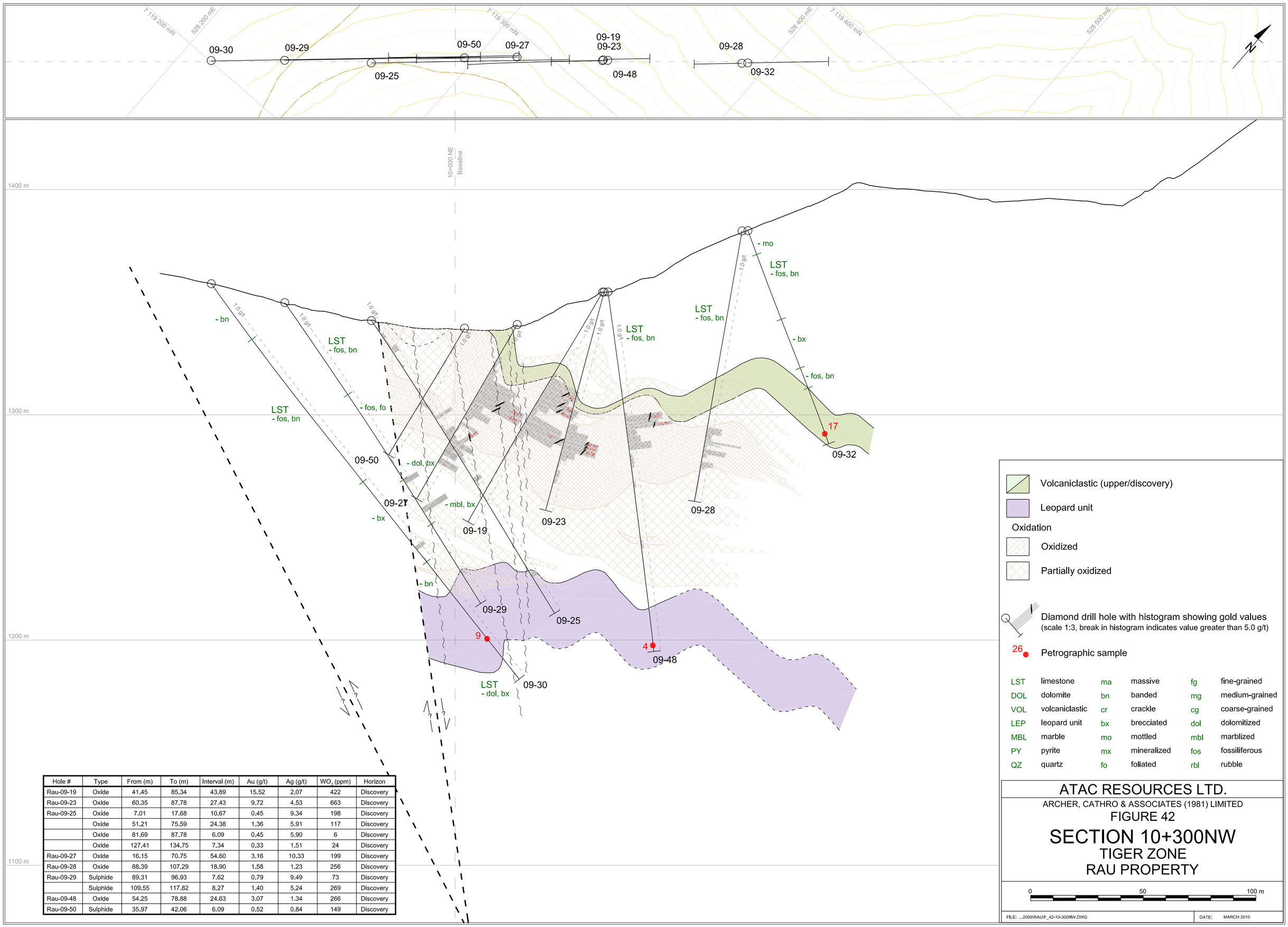
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_41-10-250NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-19	Oxide	41.45	85.34	43.89	15.52	2.07	422	Discovery
Rau-09-23	Oxide	60.35	87.78	27.43	9.72	4.53	663	Discovery
Rau-09-25	Oxide	7.01	17.68	10.67	0.45	9.34	198	Discovery
	Oxide	51.21	75.59	24.38	1.36	5.91	117	Discovery
	Oxide	81.69	87.78	6.09	0.45	5.90	6	Discovery
	Oxide	127.41	134.75	7.34	0.33	1.51	24	Discovery
Rau-09-27	Oxide	16.15	70.75	54.60	3.16	10.33	199	Discovery
Rau-09-28	Oxide	88.39	107.29	18.90	1.58	1.23	256	Discovery
Rau-09-29	Sulphide	89.31	96.93	7.62	0.79	9.49	73	Discovery
	Sulphide	109.55	117.82	8.27	1.40	5.24	269	Discovery
Rau-09-48	Oxide	54.25	78.88	24.63	3.07	1.34	266	Discovery
Rau-09-50	Sulphide	35.97	42.06	6.09	0.52	0.84	149	Discovery

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FIGURE 42

SECTION 10+300NW

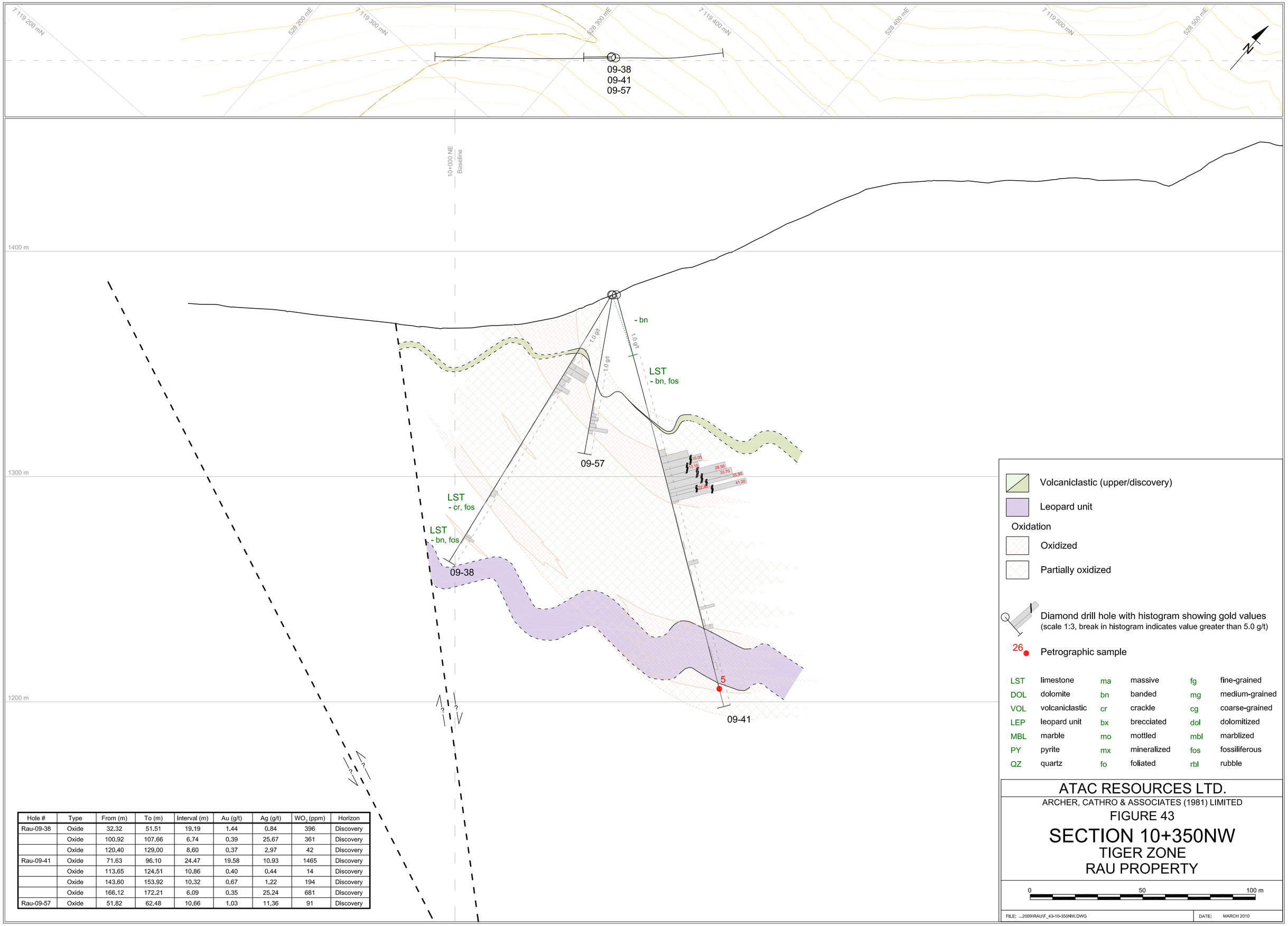
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_42-10-300NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-38	Oxide	32.32	51.51	19.19	1.44	0.84	396	Discovery
	Oxide	100.92	107.66	6.74	0.39	25.67	361	Discovery
	Oxide	120.40	129.00	8.60	0.37	2.97	42	Discovery
Rau-09-41	Oxide	71.63	96.10	24.47	19.58	10.93	1465	Discovery
	Oxide	113.65	124.51	10.86	0.40	0.44	14	Discovery
	Oxide	143.60	153.92	10.32	0.67	1.22	194	Discovery
	Oxide	166.12	172.21	6.09	0.35	25.24	681	Discovery
Rau-09-57	Oxide	51.82	62.48	10.66	1.03	11.36	91	Discovery

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

26 Petrographic sample

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

ATAC RESOURCES LTD.

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FIGURE 43

SECTION 10+350NW

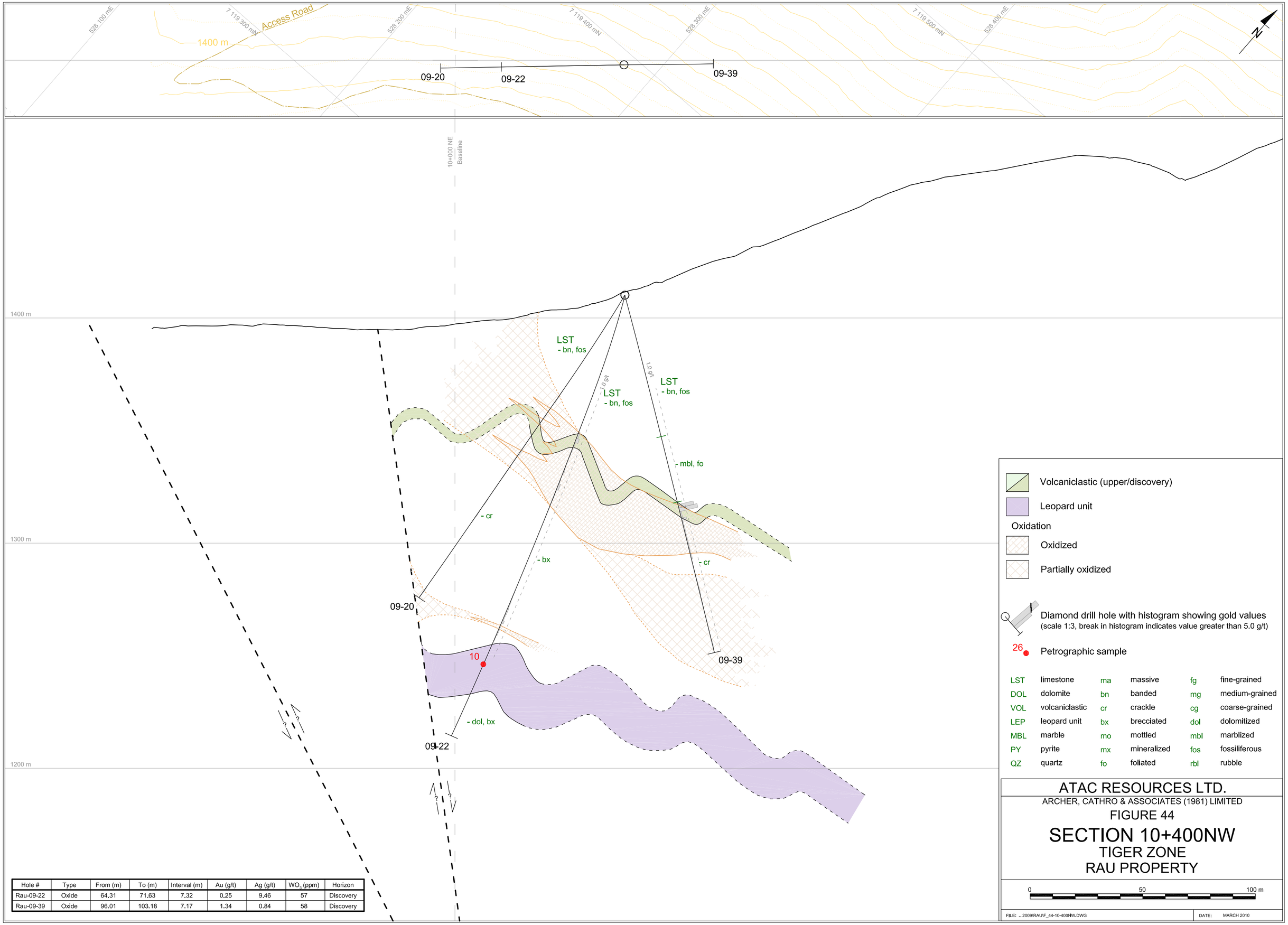
TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_43-10-350NW.DWG

DATE: MARCH 2010



Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	WO_3 (ppm)	Horizon
Rau-09-22	Oxide	64.31	71.63	7.32	0.25	9.46	57	Discovery
Rau-09-39	Oxide	96.01	103.18	7.17	1.34	0.84	58	Discovery

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FIGURE 44

SECTION 10+400NW
TIGER ZONE
RAU PROPERTY

0 50 100 m

FILE: ...2009\RAU\F_44-10-400NW.DWG DATE: MARCH 2010

7 119 300 mN
528 100 mE
7 119 400 mN
528 200 mE
7 119 500 mN
528 300 mE
7 119 600 mN
528 400 mE
09-52
09-49
N
10+000 NE
Baseline
1500 m
1400 m
1300 m
1200 m
LST
- bn, fos
LST
- bn, fos
- bx
- bn, fos
- bx, dol
- dol, bx
16
23
11
DOL
- cg
09-52
09-49

Volcaniclastic (upper/discovery)

Leopard unit

Oxidation

Oxidized

Partially oxidized

Diamond drill hole with histogram showing gold values
(scale 1:3, break in histogram indicates value greater than 5.0 g/t)

26 Petrographic sample

LST	limestone	ma	massive	fg	fine-grained
DOL	dolomite	bn	banded	mg	medium-grained
VOL	volcaniclastic	cr	crackle	cg	coarse-grained
LEP	leopard unit	bx	brecciated	dol	dolomitized
MBL	marble	mo	mottled	mbl	marblized
PY	pyrite	mx	mineralized	fos	fossiliferous
QZ	quartz	fo	foliated	rbl	rubble

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FIGURE 45

SECTION 10+500NW

TIGER ZONE

RAU PROPERTY

0 50 100 m

FILE: ...2009RAU\F_45-10-500NW.DWG DATE: MARCH 2010

Rau-09-38	10+350NW	528313	7119355	1381	228°	-60°	138.99	BTW	
Rau-09-39	10+400NW	528287	7119394	1410	048°	-75°	163.68	BTW	UTC
Rau-09-40	10+200NW	528364	7119200	1292	228°	-60°	159.41	HQ (62.48 m NQ)	
Rau-09-41	10+350NW	528314	7119357	1381	048°	-75°	188.98	BTW	UTC
Rau-09-42	10+120NW	528440	7119160	1272	228°	-60°	141.12	HQ	
Rau-09-43	10+120NW	528416	7119141	1268	228°	-60°	115.22	HQ (45.72 m NQ)	
Rau-09-44	09+850NW	528627	7118971	1306	228°	-83°	228.04	BTW	
Rau-09-45	09+895NW	528609	7118999	1295	228°	-65°	229.82	BTW	
Rau-09-46	10+170NW	528438	7119228	1302	228°	-60°	148.74	HQ (74.68 m NQ)	
Rau-09-47	09+895NW	528564	7118970	1272	228°	-70°	88.39	BTW	UTC
Rau-09-48	10+300NW	528345	7119316	1355	048°	-82°	160.94	HQ (59.44 m NQ)	
Rau-09-49	10+500NW	528287	7119530	1501	228°	-70°	306.33	BTW	
Rau-09-50	10+300NW	528296	7119275	1338	228°	-60°	67.97	HQ	
Rau-09-51	10+250NW	528346	7119250	1316	228°	-60°	107.60	HQ	
Rau-09-52	10+500NW	528195	7119454	1466	228°	-50°	377.96	HQ (272.80 m NQ)	
Rau-09-53	10+250NW	528405	7119302	1346	228°	-60°	153.32	HQ (57.91 m NQ)	UTC
Rau-09-54	09+700NW	528730	7118858	1386	228°	-75°	376.43	BTW	
Rau-09-55	10+250NW	528320	7119228	1314	228°	-60°	98.45	HQ	
Rau-09-56	10+250NW	528435	7119326	1360	228°	-60°	125.88	HQ	UTC
Rau-09-57	10+350NW	528313	7119356	1381	228°	-83°	71.63	HQ	UTC
Rau-09-58	10+200NW	528339	7119178	1295	228°	-60°	74.07	HQ	
Rau-09-59	09+935NW	528553	7119012	1266	228°	-60°	119.79	HQ	
Rau-09-60	09+970NW	528529	7119035	1260	228°	-60°	150.88	HQ	
Rau-09-61	09+780NW	528748	7118976	1381	228°	-60°	467.87	BTW	
Rau-09-62	09+970NW	528487	7119000	1232	228°	-60°	54.86	HQ	
Rau-09-63	09+935NW	528524	7118984	1252	228°	-60°	72.54	HQ	
Rau-09-64	10+120NW	528573	7119275	1313	228°	-60°	441.97	NQ	
Rau-09-65	09+895NW	528609	7118999	1295	228°	-50°	156.36	HQ	
Rau-09-66	10+000NW	528524	7119072	1259	228°	-55°	153.32	HQ	
Rau-09-67	10+000NW	528483	7119035	1235	228°	-90°	88.39	HQ	
Rau-09-68	10+000NW	528483	7119035	1235	228°	-55°	56.39	HQ	
Rau-09-69	10+035NW	528497	7119112	1245	228°	-60°	71.63	HQ	
Rau-09-70	10+085NW	528466	7119138	1263	228°	-60°	114.30	HQ	
Rau-09-71	10+150NW	528434	7119193	1285	228°	-60°	141.73	HQ	
Rau-SC09-01	09+650NW	528876	7118900	1458	228°	-50°	306.33	BTW	
Rau-SC09-02	N.A.	526754	7121630	1737	220°	-50°	94.49	BTW	UTC
Rau-SC09-03	N.A.	526754	7121630	1737	220°	-51°	149.35	BTW	
Rau-SC09-04	09+450NW	528773	7118569	1318	048°	-50°	278.90	BTW	

*** hole Rau-08-18 was extended in 2009, drilling resumed at 233.78 m**
**** UTC – unable to continue**

Core was transported by helicopter from the drill sites to a logging area on the property, where recovery was measured and geological and geotechnical logging was performed. Geologically and mineralogically favourable intervals from each hole were split with one-half bagged and sent for analysis and the other half returned to the core box. All of the core is stored on the property. Appendix VIII contains the geological and geotechnical logs. In addition, core from 2008 was re-logged using current conventions. Revised logs for the 2008 diamond drill holes can also be found in Appendix VIII.

Core samples were flown by helicopter from the property to a staging area at McQuesten Lake, then transported to Whitehorse by truck, escorted by a representative of Archer Cathro. The

samples were shipped from Whitehorse to ALS Chemex in North Vancouver. Core samples were dried and crushed to 70% minus 2 mm, before a 1.5 kg split was taken and pulverized to better than 85% minus 75 microns. To reduce cross contamination between samples during preparation, the equipment was washed twice with quartz silica sand. Splits of the pulverized fraction were routinely dissolved in aqua regia and analyzed for 49 elements using technique ME-MS61m, which combined inductively coupled plasma (ICP) with mass spectroscopy (MS) and atomic emission spectroscopy (AES). Samples were analyzed for gold by fire assay finished with atomic absorption spectroscopy (Au-AA26). Certificates of Analysis are found in Appendix VI.

Results

Drilling in the vicinity of the Tiger Zone intersected a stacked sequence of hydrothermally dolomitized limestone and volcaniclastic rocks that have been polyphase folded into a series of relatively complex synforms and antiforms. Sulphide mineralization is hosted within stratigraphically conformable layers of replacement hydrothermal dolomite and iron carbonate bound between volcaniclastic and siltstone beds. In 2009, the majority of drilling focused on oxide mineralization which occurs in the northwestern half of the Tiger Zone.

Mineralization occurs within a 150 to 200 m wide northwest trending corridor of highly strained carbonate strata that has been traced by diamond drilling over a strike length of 650 m. Regional mapping and prospecting suggests that this structural corridor is a high angle feature that extends for another 20 km or more along strike to the northwest. High grade oxide mineralization appears to occur where north trending high angle subordinate faults cut obliquely across this corridor.

Individual dolomite horizons range from 40 to 120 m thick. Gold occurs with sulphide minerals that wholly or partially replace the dolomite near the crest of local antiform. The sulphide minerals are locally concentrated beneath sericitized volcaniclastic beds, which may have acted as impermeable caps. To date, three mineralized horizons have been identified. The middle horizon (Discovery Horizon), which ranges in thickness from about 40 to 96 m, hosts the most continuous mineralization within the Tiger Zone.

The Discovery Horizon has been the primary focus of drilling to date and has produced the most significant intersections. This horizon is dominantly comprised of coarse grain dolomite and iron carbonates. The main sulphide minerals are pyrite and arsenopyrite while accessory minerals include pyrrhotite, bismuthinite, scheelite and sphalerite. The thickest intersection came from hole Rau-09-66, which averaged 4.04 g/t over 96.01 m. Gold values and sulphide abundance in this horizon are highest near the centre of the structural corridor and gradually decrease down dip to the northeast.

To the northwest, the Discovery Horizon (host and mineralization) is completely oxidized. The transition between oxidized and unoxidized material is relatively sharp, occurring over several metres. Oxidation is most intense around hole Rau-09-19 where subordinate north trending structures are interpreted to intersect the northwest trending strain corridor. Holes along this subordinate structural trend intersected 43.89 m of oxide material grading 15.52 g/t gold from

Rau-09-19 while hole Rau-09-41 located 50 m northwest intersected 24.47 m of oxide material grading 19.58 g/t gold. Other holes drilled northwest of Rau-09-19 off this subordinate structural trend encountered lower grade intersections ranging between 1.0 and 3 g/t Au.

Oxide mineralization comprises coarse grain quartz fragments. The colour of the oxide mineralization is also quite variable. The most common end members are light yellowish orange, bright orange-brown and dark reddish brown. Textures are often obscured on the core surface but sometimes visible on split surfaces. Typical textures include honeycomb, banded, patchy and rare breccia.

To the southwest, the Discovery Horizon mineralization appears to truncate against a high-angle reverse fault that parallels the structural corridor. The structure is poorly understood and coarse white marble is typically found to the southwest in the footwall of the fault. Only a limited number of holes have tested the southwest side of the fault and none have drilled deep enough to test for the potentially displaced Tiger Zone mineralization.

The Upper Horizon comprises medium to coarse grain, disseminated pyrite often with quartz, pyrrhotite and lesser arsenopyrite. This horizon typically yielded low gold values; however, a number of short gold-enriched intervals were intersected, including 8.13 g/t gold over 3.05 m from hole Rau-08-11.

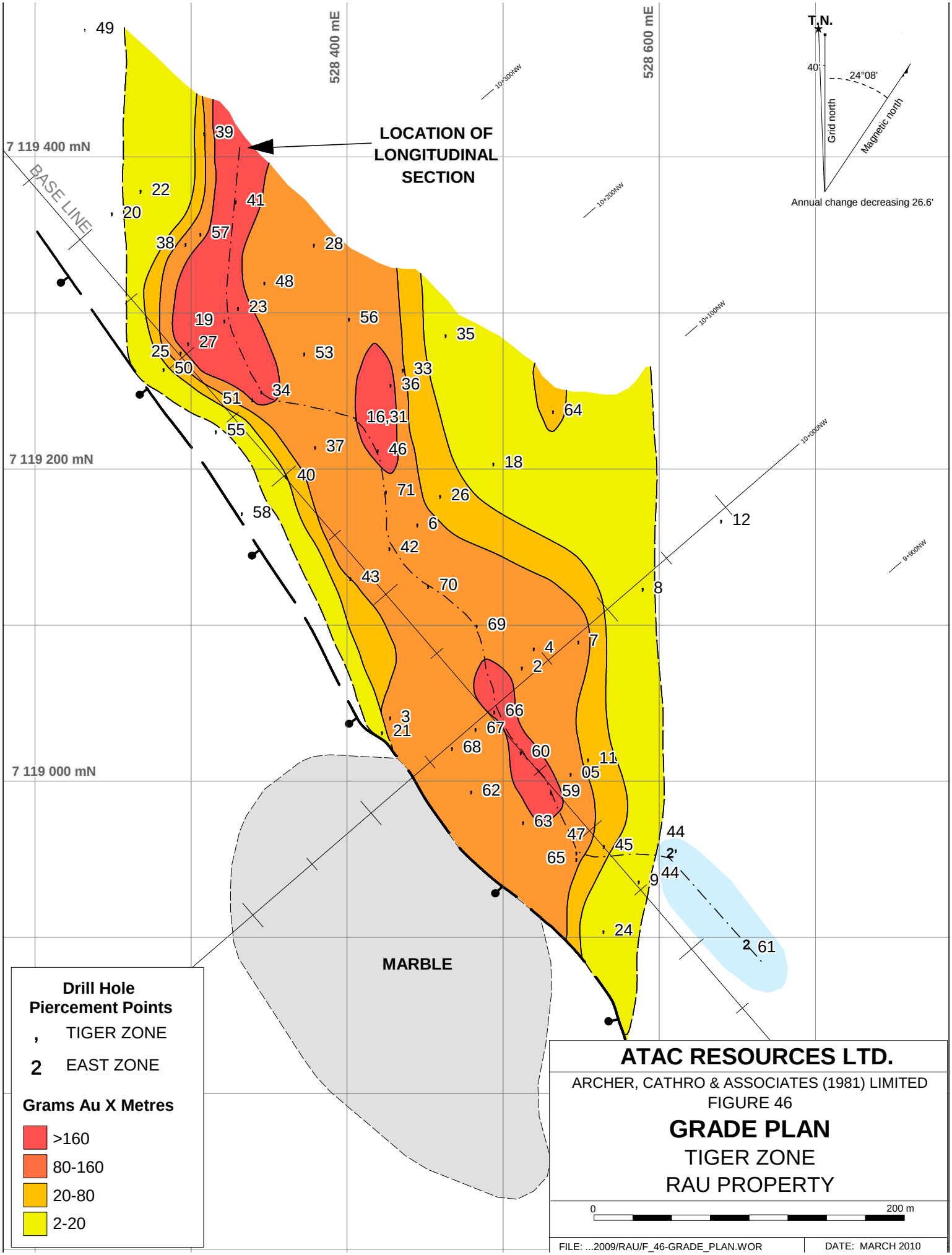
The Lower Horizon hosts the East Zone mineralization and is pyrite dominant with only minor arsenopyrite. Accessory minerals include sphalerite, bismuthinite, galena and scheelite. Hole Rau-08-18 intersected 62.03 m of very coarse grain, semi-massive to massive pyrite with minor sphalerite, including 60.03 m grading 0.18 g/t gold, 28.30 g/t silver, 1829 ppm lead and 1.09% zinc.

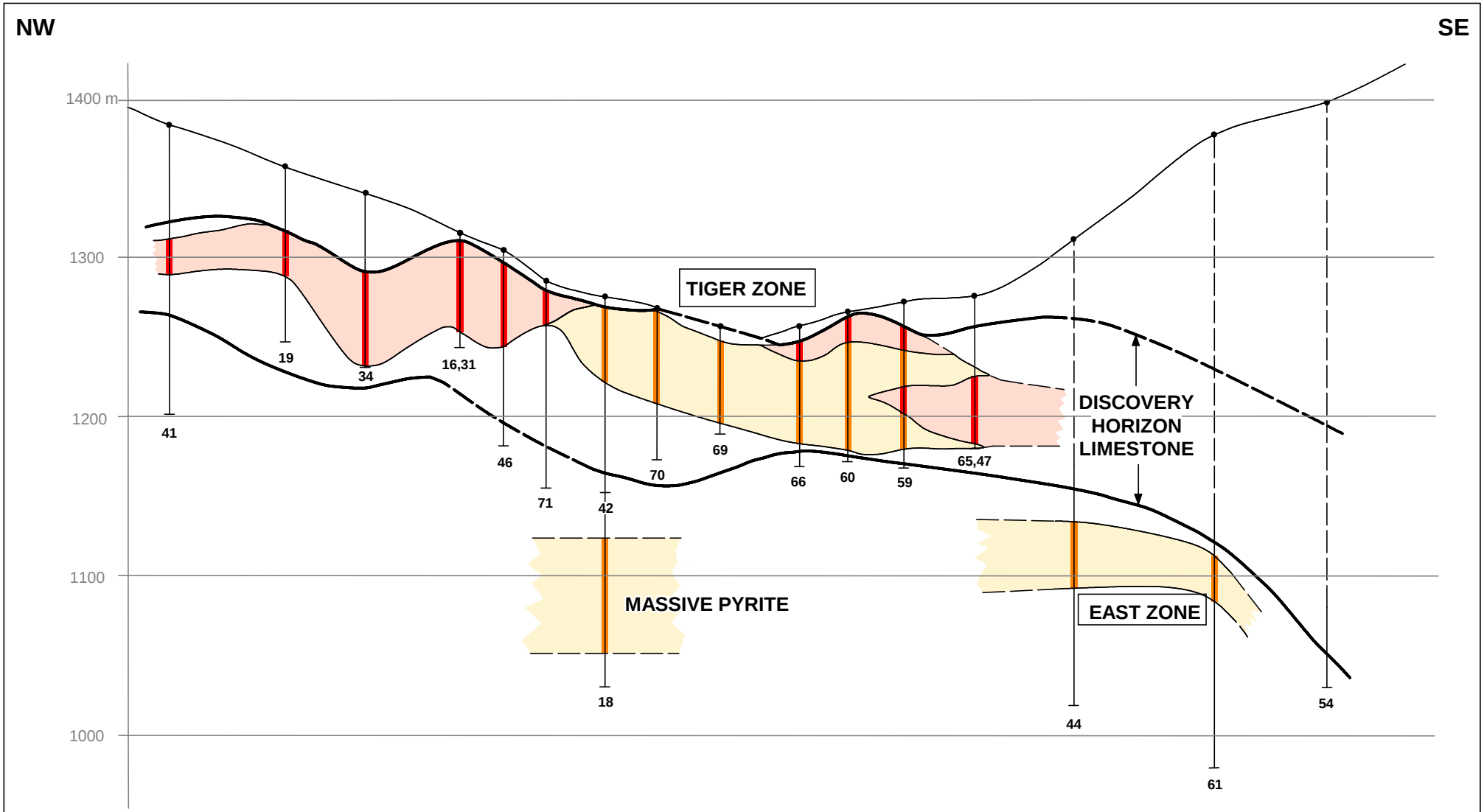
Coarse grain iron carbonate with pyrite was intersected in Rau-09-44 and Rau-09-61. These two intersections are also part of the East Zone. Arsenopyrite is absent in both intersections. Rau-09-44 graded 3.71 g/t gold over 36.78 m, while Rau-09-61 graded 3.36 g/t over 23.06 m.

A plan view showing major intersections converted to gram-metres (interval grade multiplied by interval width) is shown on Figure 46. The locations shown on this figure represent the centre and highlight the north trending control associated with high-grade mineralization.

A long section (Figure 47) constructed through the Tiger Zone illustrates how the East Zone intersections occur stratigraphically below the Discovery Horizon. Most of the drilling done to date has not extended deep enough to reach this horizon. As a result these intersections are spaced far apart making it difficult to understand the connections between them.

Significant intersections from both the 2008 and 2009 diamond drilling are listed on the next page.


528 400 mE
528 600 mE
7 119 400 mN
7 119 200 mN
7 119 000 mN
BASE LINE
LOCATION OF LONGITUDINAL SECTION
10+300NW
10+200NW
10+100NW
10+000NW
9+900NW
T.N.
40°
24°08'
Grid north
Magnetic north
Annual change decreasing 26.6'
MARBLE
Drill Hole Piercement Points
, TIGER ZONE
2 EAST ZONE
Grams Au X Metres
>160
80-160
20-80
2-20
ATAC RESOURCES LTD.
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 46
GRADE PLAN
TIGER ZONE
RAU PROPERTY
0
200 m
FILE: ...2009/RAU/F_46-GRADE_PLAN.WOR
DATE: MARCH 2010



OXIDE

SULPHIDE

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FIGURE 47

LONGITUDINAL SECTION

TIGER ZONE

RAU PROPERTY

0 200 m

FILE: ...2009/RAU/F_47-LONGITUDINAL.WOR

DATE: MARCH 2010

Table IV: Significant Drill Intersections

Hole #	Type	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	Horizon
Rau-08-02	Sulphide	52.73	121.42	68.69	1.24	0.12	Discovery
Rau-08-03	Oxide	9.14	42.67	33.53	2.51	3.61	Discovery
	Oxide	51.81	62.55	10.74	0.71	0.31	Discovery
Rau-08-04	Sulphide	101.61	170.25	68.64	1.65	0.11	Discovery
Rau-08-05	Sulphide	71.50	100.38	28.88	2.26	0.25	Discovery
	Sulphide	109.38	150.04	40.66	1.64	3.77	Discovery
Rau-08-06	Sulphide	9.70	45.70	36.00	1.57	0.18	Discovery
	Sulphide	54.70	66.70	12.00	2.56	0.14	Discovery
Rau-08-07	Sulphide	136.52	142.52	6.00	1.05	0.19	Discovery
	Sulphide	172.87	186.87	14.00	5.20	0.27	Discovery
	Sulphide	226.87	237.87	11.00	1.52	1.34	Discovery
Rau-08-08	Sulphide	165.94	171.94	6.00	0.77	0.45	Discovery
	Sulphide	192.94	198.94	6.00	0.96	0.24	Discovery
Rau-08-10	Sulphide	79.90	85.90	6.00	0.53	0.34	Upper
Rau-08-11	Sulphide	19.67	28.41	8.74	2.89	0.21	Upper
	Sulphide	124.17	130.17	6.00	0.57	0.40	Discovery
	Sulphide	168.91	188.27	19.36	1.05	0.21	Discovery
	Sulphide	227.08	235.65	8.57	0.65	0.35	Discovery
Rau-08-13	Sulphide	103.05	121.05	18.00	1.46	0.47	Upper
Rau-08-16	Oxide	8.84	79.25	70.41	1.98	5.73	Discovery
Rau-08-18	Sulphide	58.72	69.20	10.48	1.83	0.24	Upper
	Sulphide	134.02	143.02	9.00	0.93	0.11	Discovery
Rau-09-19	Oxide	41.45	85.34	43.89	15.52	2.07	Discovery
Rau-09-21	Oxide	20.73	45.11	24.38	0.69	5.80	Discovery
Rau-09-22	Oxide	64.31	71.63	7.32	0.25	9.46	Discovery
Rau-09-23	Oxide	60.35	87.78	27.43	9.72	4.53	Discovery
Rau-09-24	Oxide	75.00	82.66	7.66	0.76	0.48	Discovery
	Oxide	102.41	122.83	20.42	0.94	1.53	Discovery
Rau-09-25	Oxide	7.01	17.68	10.67	0.45	9.34	Discovery
	Oxide	51.21	75.59	24.38	1.36	5.91	Discovery
	Oxide	81.69	87.78	6.09	0.45	5.90	Discovery
	Oxide	127.41	134.75	7.34	0.33	1.51	Discovery
Rau-09-26	Sulphide	34.62	40.84	6.22	1.11	0.13	Discovery
	Sulphide	69.94	83.82	13.88	0.97	0.11	Discovery
	Sulphide	90.73	98.15	7.42	1.06	0.14	Discovery
Rau-09-27	Oxide	16.15	70.75	54.60	3.16	10.33	Discovery
Rau-09-28	Oxide	88.39	107.29	18.90	1.58	1.23	Discovery
Rau-09-29	Sulphide	89.31	96.93	7.62	0.79	9.49	Discovery
	Sulphide	109.55	117.82	8.27	1.40	5.24	Discovery
Rau-09-31	Oxide	7.03	72.54	65.51	2.13	41.65	Discovery
Rau-09-33	Oxide	55.62	102.87	47.25	1.04	3.89	Discovery
Rau-09-34	Oxide	45.00	121.31	76.31	2.32	12.42	Discovery
Rau-09-35	Sulphide	117.43	123.48	6.05	1.42	19.15	Discovery
Rau-09-36	Oxide	31.60	93.36	61.76	3.14	0.89	Discovery
	Sulphide	93.36	99.37	6.01	3.90	0.15	Discovery
Rau-09-37	Oxide	13.11	26.20	13.09	2.73	23.37	Discovery
	Oxide	40.73	49.68	8.95	0.34	0.81	Discovery
	Sulphide	69.49	77.11	7.62	0.91	0.49	Discovery
Rau-09-38	Oxide	32.32	51.51	19.19	1.44	0.84	Discovery

	Oxide	100.92	107.66	6.74	0.39	25.67	Discovery
	Oxide	120.40	129.00	8.60	0.37	2.97	Discovery
Rau-09-39	Oxide	96.01	103.18	7.17	1.34	0.84	Discovery
Rau-09-40	Oxide	7.01	22.38	15.37	1.14	1.46	Discovery
Rau-09-41	Oxide	71.63	96.10	24.47	19.58	10.93	Discovery
	Oxide	113.65	124.51	10.86	0.40	0.44	Discovery
	Oxide	143.60	153.92	10.32	0.67	1.22	Discovery
	Oxide	166.12	172.21	6.09	0.35	25.24	Discovery
Rau-09-42	Sulphide	10.06	23.00	12.94	2.27	0.12	Discovery
	Sulphide	40.54	61.87	21.33	2.04	0.14	Discovery
	Sulphide	107.59	113.69	6.10	0.80	0.14	Discovery
Rau-09-43	Oxide	8.95	48.90	39.95	1.91	2.32	Discovery
Rau-09-44	Sulphide	183.59	220.37	36.78	3.71	0.31	Unknown
Rau-09-45	Sulphide	88.24	123.44	35.20	0.91	0.15	Discovery
	Sulphide	175.00	181.90	6.90	0.74	0.40	Discovery
Rau-09-46	Oxide	13.11	72.84	59.73	5.44	0.78	Discovery
Rau-09-47	Oxide	25.91	32.00	6.09	0.26	12.20	Discovery
	Oxide	49.83	88.39	38.56	2.59	3.28	Discovery
Rau-09-48	Oxide	54.25	78.88	24.63	3.07	1.34	Discovery
Rau-09-50	Sulphide	35.97	42.06	6.09	0.52	0.84	Discovery
Rau-09-51	Oxide	3.96	27.28	23.32	1.07	3.12	Discovery
Rau-09-53	Oxide	51.88	101.50	49.62	2.15	5.68	Discovery
	Oxide	122.83	131.62	8.79	0.30	0.80	Discovery
Rau-09-54	Sulphide	50.29	56.39	6.10	0.85	0.10	Upper
Rau-09-56	Oxide	72.54	108.34	35.80	3.77	1.71	Discovery
Rau-09-57	Oxide	51.82	62.48	10.66	1.03	11.36	Discovery
Rau-09-59	Oxide	14.63	21.65	7.02	0.64	0.49	Discovery
	Sulphide	21.65	57.30	35.65	2.55	0.29	Discovery
	Oxide	60.40	79.86	19.46	5.44	0.74	Discovery
	Sulphide	79.86	92.95	13.09	0.68	1.08	Discovery
	Sulphide	104.55	111.21	6.66	0.58	2.92	Discovery
Rau-09-60	Sulphide	6.10	16.85	10.75	4.91	0.60	Discovery
	Oxide	16.85	21.20	4.35	5.99	1.11	Discovery
	Sulphide	21.20	99.06	77.86	2.06	0.46	Discovery
Rau-09-61	Sulphide	170.43	177.60	7.17	0.75	0.19	Unknown
	Sulphide	317.40	340.46	23.06	3.36	0.77	Unknown
Rau-09-62	Oxide	6.10	36.58	30.48	3.01	3.18	Discovery
Rau-09-63	Oxide	5.00	13.11	8.11	1.32	1.18	Discovery
	Oxide	35.97	58.83	22.86	3.68	0.82	Discovery
Rau-09-64	Sulphide	104.97	111.55	6.58	2.34	0.19	Upper
	Sulphide	219.25	225.55	6.30	1.38	0.45	Discovery
	Sulphide	246.89	254.35	7.46	0.51	2.62	Discovery
Rau-09-65	Oxide	75.59	83.21	7.62	0.34	34.60	Discovery
	Oxide	112.95	152.11	39.16	0.97	1.75	Discovery
Rau-09-66	Oxide	7.01	13.65	6.64	11.95	0.47	Discovery
	Sulphide	13.65	103.02	89.37	3.45	0.25	Discovery
Rau-09-67	Oxide	1.52	9.14	7.62	1.16	1.93	Discovery
	Sulphide	9.14	28.96	19.82	2.16	0.95	Discovery
	Sulphide	38.10	54.86	16.76	1.15	0.71	Discovery
Rau-09-68	Oxide	7.42	52.14	44.72	3.37	2.89	Discovery
Rau-09-69	Sulphide	4.57	21.34	16.77	3.18	0.16	Discovery
	Sulphide	39.62	58.85	19.23	3.11	0.12	Discovery
Rau-09-70	Sulphide	10.30	28.96	18.66	1.63	0.11	Discovery

	Sulphide	35.20	53.34	18.14	0.50	0.14	Discovery
	Sulphide	60.96	67.50	6.54	1.71	0.09	Discovery
Rau-09-71	Oxide	6.10	25.91	19.81	3.96	1.40	Discovery
	Sulphide	27.43	33.53	6.10	0.54	0.07	Discovery
	Sulphide	69.91	77.72	7.81	0.50	0.44	Discovery

Significant intervals were calculated using strict criteria. For unoxidized, sulphide intervals, a cut-off grade of 0.50 g/t was used with a minimum interval width of 6.00 m and maximum internal waste block of 6.00 m. The minimum interval width for oxidized core was 6.00 m with a cut-off grade of 0.25 g/t gold, while the maximum internal waste block was 6.00 m with a cut-off grade of 0.20 g/t gold.

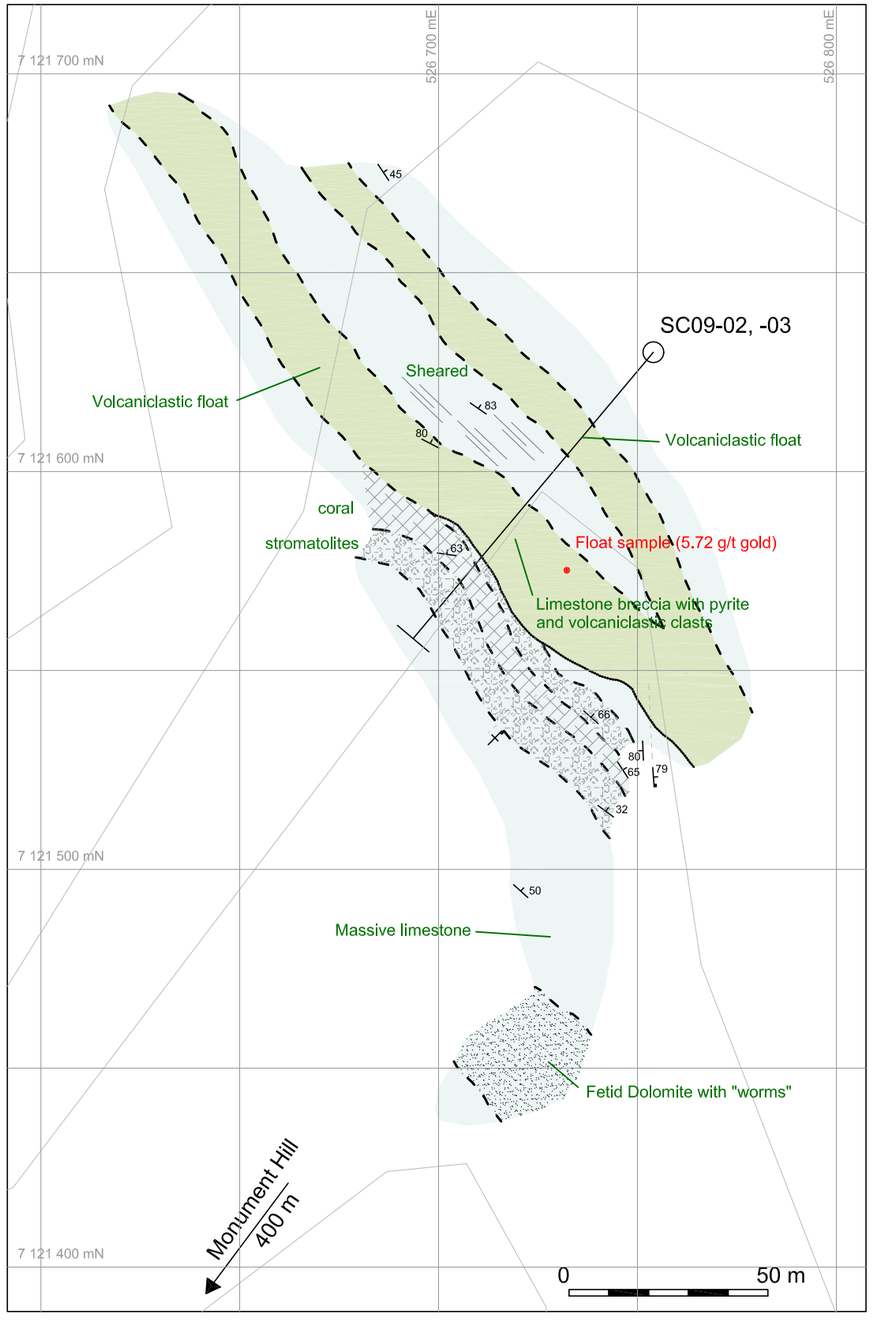
Typical unmineralized intersections comprised grey limestone with varying degrees of brecciation and dolomitization. Fossils (crinoids and coral) are often visible in the more massive intervals. Fluid collapse breccia is the most common form of brecciation and is more frequent nearer to the structural corridor.

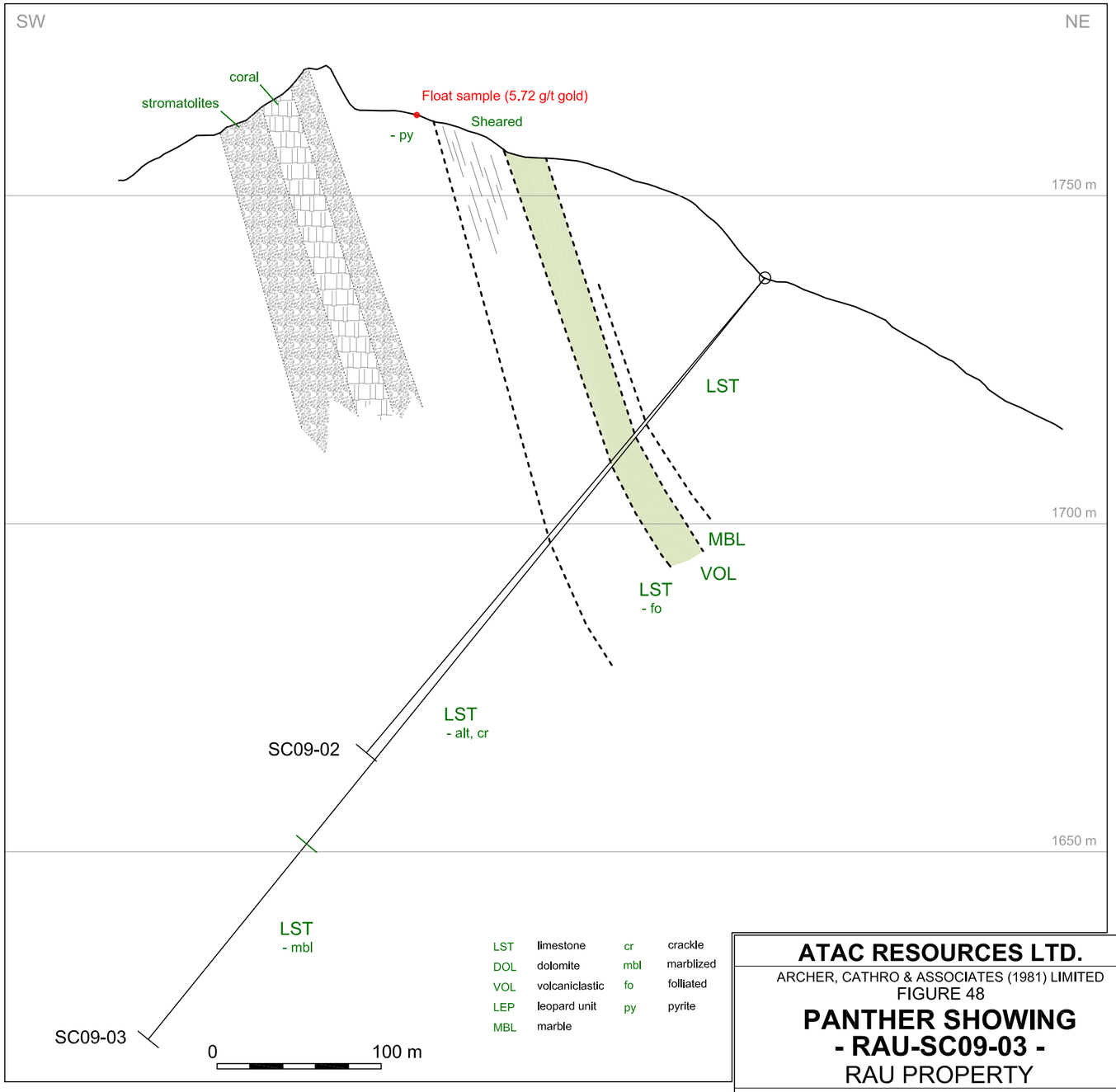
In drill core, the volcaniclastic horizons are visually and geochemically distinguishable from the surrounding limestone and dolomite. Unaltered, they consist of a dark forest green groundmass enclosing calcite amygdules; and where altered, they exhibit strong foliation and sericitiziation, which imparts a buff to tan colour. Geochemically they can be distinguished from the surrounding units by elevated values of the following elements: aluminum, barium, cobalt, chromium, gallium, potassium, lithium, niobium, nickel, phosphorus, tantalum, thallium, vanadium and yttrium. Narrow intervals of marble, up to approximately 5 m wide, sometimes occur adjacent to volcaniclastic layers.

A magnetite pebble conglomerate occurs along Tiger Creek, approximately 100 m south of Rau-09-14. A similar unit was also intersected in holes Rau-09-64, Rau-09-69 and Rau-SC09-04. In drill core this unit comprises well rounded carbonate and magnetite clasts, ranging in size from a few millimeters to 5 cm within a fine grain magnetite matrix. Where observed, this conglomerate unit often occurs within or adjacent to volcaniclastic intervals. In holes Rau-09-64 and -69 it is located stratigraphically above the Discovery Horizon. The relative stratigraphic position of this unit in hole Rau-SC09-04 is uncertain due to the limited data available in this area.

A brown and white spotted unit, referred to as the “Leopard Unit”, occurs beneath the Discovery Horizon. Geochemically this unit is similar to the volcaniclastic; however, it has a high calcium content and reacts vigorously with hydrochloric acid. This unit is almost always underlain by a narrow (less than 1 m) wide interval of black, pyritic shale.

Drilling at the Panther Showing, 500 m northeast of Monument Hill (Figure 48), intersected lithological units similar to those found within the Tiger Zone. At the Panther Showing, two diamond drill holes targeted the downdip extension of mineralization found within a shear zone. The first hole (Rau-SC09-02) was unable to continue after the rods froze into the ground. The second hole (Rau-SC09-03) twinned the first and was able to reach the target depth. Drilling intersected mostly brecciated limestone containing calcite veins and a narrow volcaniclastic interval. No significant mineralization was encountered.





LST	limestone	cr	crackle
DOL	dolomite	mbl	marblized
VOL	volcaniclastic	fo	folliated
LEP	leopard unit	py	pyrite
MBL	marble		

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FIGURE 48

PANTHER SHOWING - RAU-SC09-03 -

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UTM ZONE 8W, NAD 83, 106D01

FILE: ...2009/RAU/F_48-PANTHER.DWG

DATE: MARCH 2010

Petrographic Samples

Representative samples of each major lithological unit were collected and submitted to Vancouver Petrographics Ltd. where thin sections were prepared and petrographic analysis was completed. Table V contains a list of samples while Appendix IX contains the petrographic report with detailed descriptions of the samples.

Table V: Petrographic Samples

Sample	Hole	Depth (m)	Field Description
1	Rau-09-64	130.50	Magnetite pebble conglomerate
2	Rau-SC09-04	266.80	Magnetite pebble conglomerate
3	Rau-09-69	59.80	Foliated magnetite unit
4	Rau-09-48	158.20	Fine grained magnetite pebble
5	Rau-09-41	180.50	Oxidized leopard unit
6	Rau-09-36	155.45	Leopard unit
7	Rau-09-26	150.50	Leopard unit
8	Rau-09-26	115.50	Leopard unit
9	Rau-09-30	199.50	Leopard unit
10	Rau-09-22	175.50	Bleached leopard unit
11	Rau-09-49	262.50	Bleached leopard unit
12	Rau-09-60	78.00	Coarse grained dolomite vein in limestone
13	Rau-09-26	126.49	White coarse grain dolomite with pyrite
14	Rau-09-37	63.50	Hematite altered coarse grained dolomite
15	Rau-09-37	94.50	Brecciated coarse grained dolomite
16	Rau-09-52	291.40	Coarse grained dolomite
17	Rau-09-32	96.35	Green volcaniclastic
18	Rau-09-54	180.90	Sericite altered volcaniclastic
19	Rau-09-54	193.06	Altered volcaniclastic
20	Rau-09-44	173.25	Strongly foliated volcaniclastic
21	Rau-SC04-09	257.90	Volcaniclastic
22	Rau-09-40	142.65	Leopard unit, altered with sulphides
23	Rau-09-49	266.10	Pyritic shale (beneath leopard)
24	Rau-09-40	143.50	Pyritic shale (beneath leopard)
25	Rau-09-44	190.50	Brecciated quartz and pyrite
26	Rau-09-44	154.45	Foliated non-calcareous volcaniclastic

Many of the samples can be classified as typical of shallow, distal, marine environments. Four main litho types were identified: a) shallow water dirty dolomitic limestone; b) stratified calcareous to non-calcarous siltites and lithic wackes; c) pebble conglomerates; d) intrusive (dykes-sills) or flows.

The unit described in the field as the “Leopard Unit” can be classified as a stratified calcareous to non-calcareous siltites and lithic wackes. The volcaniclastics have been categorized as intrusive (dykes-sills) or flows and in some cases as altered lithic wackes and siltites. The lack

of deformation in some of these samples suggests that they were emplaced post-deformation and supports the intrusive interpretation. The origin of the pebble conglomerate is still uncertain. It is thought that these could also represent an intrusion breccia or pebble dyke.

Almost all of the samples display a strong S1 (D1) fabric and several show a weak S2 (D2) fabric. Both appear to be related to regional scale shortening or compression and are generally non-rotational. A final, post D2 extension is also represented in these samples by veins (often calcite) cutting all previous fabrics and lithologies.

Metallurgical

In August, 2009, six composite samples were created from coarse reject material of oxide intervals from hole Rau-09-19. A 50 g split was taken from each composite and analyzed by the Au-AA26 technique, described above. A 1 kg split was then analyzed using a cyanide leach technique (Au-AA14) with an atomic absorption spectroscopy (AAS) finish. The table below lists the conventional and cyanide leach results for each sample. The Certificate of Analysis is contained in Appendix VI.

Table VI: Metallurgical Test Results

Sample	Au-AA26	Au-AA14	% Cyanide Recovery
Rau-CY-A	85.70	82.60	96.4
Rau-CY-B	7.76	7.50	96.6
Rau-CY-C	4.69	4.51	96.2
Rau-CY-D	2.70	2.68	99.3
Rau-CY-E	0.83	0.77	92.8
Rau-CY-F	0.25	0.26	104.0

The high recovery obtained from this preliminary leach test demonstrates how readily extractable the gold in the oxide material is using low cost, conventional techniques. Additional metallurgical and mineralogical studies are pending.

QAQC

During the field season, samples were divided into batches, each containing 31 core samples, 2 standards, 2 blanks and 1 duplicate. A total of 155 standards and 151 blanks were inserted into the sample sequences. Blank samples each comprise 4 kg of landscaping marble obtained from a garden centre in Whitehorse. Samples of this material were randomly selected and analyzed prior to the field season in order to use as a "blank". Tables summarizing QAQC results are contained in Appendix X.

Prior to the field season, three standard samples were prepared by CDN Resource Laboratories Ltd. from core collected in 2008. Two additional gold standards, obtained from CDN Resource Laboratories and a tungsten standard from the Canada Centre for Mineral and Energy Technology were used for check analysis performed following the field season. Certificates for each of the standard samples are also contained in Appendix X, while Table VII summarizes the

consensus and two standard deviation values for each of the standard samples used during the program.

Table VII: Standard Sample Consensus Values

Sample	Consensus Value	2δ
STD-1	0.514 g/t Au	0.058
STD-2	1.527 g/t Au	0.134
STD-3	5.705 g/t Au	0.498
CDN-GS-1D	1.05 g/t Au	0.10
CDN-GS-3F	3.10 g/t Au	0.24
BH-1	0.422% W	0.008

Gold values from all but five of the blank samples were within acceptable range (≤0.05 ppm). The failed samples were from batches 1 (0.15 g/t), 35 (0.06 g/t and 0.13 g/t), 53 (0.23 g/t) and 55 (0.08 g/t). All samples from batch 35 were reanalyzed by the laboratory to ensure the results were accurate. The remaining samples were found to be within the ALS Chemex's accepted "carry-over" limit given the high gold values of the proceeding samples.

All but nine of the standard sample values are within the acceptable range. Gold values from seven of the sample batches (5, 23, 39, 46, 52, 68 and 76) that included failed standards were reanalyzed by the laboratory to ensure results were accurate. Results from the reanalysis were typically consistent with the original values. The most notable variations came from thirteen samples with values greater than 1.5 g/t gold, suggesting a small nugget effect occurs with higher grade samples.

A total of 76 duplicate samples, prepared from quarter core, were collected and analyzed throughout the program. In general, there was a small decrease in gold values but otherwise little variation between the initial and duplicate samples. The most notable difference was from hole Rau-09-19. The initial sample yielded 162.00 g/t, while the duplicate returned 84.50 g/t. This implies that there is some nugget effect present, particularly in the higher grade samples. The smaller size of the duplicate sample may also account for the general decrease in gold grade in these samples.

In December 2009, 132 pulps and 137 coarse rejects were randomly selected from the 2359 core samples collected in the summer. In order to remove any bias, pulps and coarse rejects were selected from a Microsoft Excel spreadsheet using a random number generator. These samples were renumbered and submitted to ACME Analytical Laboratories in Vancouver, BC for reanalysis for gold and tungsten.

At ACME, coarse reject material was pulverized to better than 85% minus 75 microns. Equipment was washed twice with glass between samples to reduce the possibility of cross contamination. A 50 g split was taken and analyzed for gold by fire assay and finished with atomic inductively coupled plasma (ICP) with emission spectroscopy (ES). Tungsten was analyzed for using the Group-7KP technique, which dissolves the sample in phosphoric acid and

completes the analysis using a combination of inductively coupled plasma (ICP) and emission spectroscopy (ES). Certificates of Analysis are found in Appendix VI.

These samples were arranged in batches of 35 samples and include 2 standard samples. Two blank samples were also included in each batch of coarse rejects. Table VIII lists the results of these QAQC samples.

Table VIII: ACME QAQC Standard and Blank Samples

Batch	Standard	Sample	Au (g/t)	W (%)
Reject-1	Blank	E687006	<0.01	<0.005
Reject-1	BH-1	E687010		0.435
Reject-1	STD-3	E687015	5.53	
Reject-1	Blank	E687034	<0.01	<0.005
Reject-2	BH-1	E687044	0.04	0.423
Reject-2	Blank	E687051	0.02	<0.005
Reject-2	Blank	E687056	<0.01	<0.005
Reject-2	STD-1	E687063	0.48	
Reject-3	Blank	E687082	0.02	<0.005
Reject-3	Blank	E687083	0.01	<0.005
Reject-3	STD-2	E687084	1.43	
Reject-3	STD-1	E687100	0.47	
Reject-4	Blank	E687110	<0.01	<0.005
Reject-4	BH-1	E687118		0.417
Reject-4	Blank	E687124	0.01	<0.005
Reject-4	STD-1	E687125	0.5	
Reject-5	STD-2	E687145	1.5	
Reject-5	Blank	E687148	<0.01	<0.005
Reject-5	Blank	E687152	15.55	<0.005
Reject-5	STD-1	E687157	0.48	
Pulp-1	BH-1	E687168		0.427
Pulp-1	GS-3F	E687183	2.77	
Pulp-2	GS-3F	E687202	2.97	
Pulp-2	GS-1D	E687222	1.04	
Pulp-3	GS-1D	E687246	1.12	
Pulp-3	GS-1D	E687252	1.07	
Pulp-4	GS-3F	E687268	3.05	
Pulp-4	BH-1	E687279		0.415

One standard and one blank sample did not meet the QAQC criteria. The standard sample (E687010) returned the maximum allowable value before resulting in an automatic failure. Blank sample E687152 yielded 15.55 g/t gold. Despite a maximum allowable carry over of 1% from the preceding sample (41.20 g/t) this sample is a clear failure. These blank samples consisted of coarse marble aggregate and first needed to be crushed to 70% passing 2 mm. Because these samples had to be removed from the sample stream to accommodate this extra step, it is not clear as to where the contamination would have occurred and whether or not other samples could have been affected.

On average, gold results were similar. The greatest variability occurs in samples that initially yielded greater than 10.0 g/t. Of the 269 pulp and coarse reject samples reanalyzed, 191 returned

gold values within 0.10 g/t of the original, 33 samples increased by more than 0.10 g/t and 46 decreased by more than 0.10 g/t. In general, tungsten results from ACME were higher than the original Chemex results. A total of 157 samples returned tungsten values below the detection limit and are consistent with the original values. Of the remaining 112 samples, 90 yielded values greater than the original. The greatest increase came from a sample that originally returned 1320 ppm tungsten, which increased to 1870 ppm tungsten. The general increase can be explained by the more complete digestion of the sample using the Group-7KP analytical technique.

Density

Systematic density measurements were taken on core produced in 2009. Several samples were taken from each lithological unit within each hole. Due to the competency and also low and variable recovery in the heavily oxidized intervals, it was not possible to obtain any accurate measurements of its density using conventional methods.

To determine the density, the sample was measured and the volume calculated. The ends of each sample were sawn to ensure it was cylindrical for accurate calculations. The samples were first weighed in air, then suspended beneath a scale in a pail of water and weighed again. The length of each sample was measured with a ruler and the volume was calculated using a core diameter of 4.2 cm for BTW, 5.1 cm for NQ and 6.1 cm for HQ. The density was calculated by dividing the weight in air by the volume of the core. This was checked against the specific gravity of each sample, which was calculated using Archimedes method (weight in air divided by the difference between weight in air and weight in water). Individual density measurements can be found with the geological logs in Appendix VIII.

The table below shows the average results for each of the major lithologies and the number of samples used to calculate each average.

Table IX: Average Unit Density

Unit	Density	#	S.G.	#
Dolomite	2.91	25	2.92	26
Altered Dolomite	2.71	12	2.72	10
Mineralized Dolomite	3.35	29	3.41	29
Limestone	2.79	40	2.81	44
Altered Limestone	2.80	84	2.77	85
Fossiliferous Limestone	2.73	48	2.69	46
Oxidized Limestone	2.51	8	2.61	8
Leopard Unit	2.93	19	2.88	19
Marble	2.73	28	2.75	27
Volcaniclastic	2.94	14	2.89	16
Altered Volcaniclastic	2.79	8	2.76	10

In general, the specific gravity measurements are comparable to the density measurements. Some of these minor variations can be attributed to porosity and inaccuracy while measuring the

volume of each sample. Also, Archimedes method assumes the measurements were taken at sea level, which was not the case in this situation. These measurements were made at approximately 1000 m above sea level. Archimedes method is also affected by temperature variations of both the water and the air. During the course of the project, the temperature varied dramatically and could have affected the specific gravity calculations.

For some of the later holes, a way to measure the approximate density of the oxide material was devised. The weight of the core was determined by measuring the total weight of each full box and subtracting the weight of an empty core box. In order to calculate volume, the interval width represented within the core box had to be corrected for recovery.

Unfortunately this process is subject to numerous errors and assumptions, therefore a larger data set would be needed before this data could be considered reliable. Although the data is not as accurate as a direct density measurement, some approximation can be made of the actual values. For calibration purposes, the same process was applied to lithological units with fairly well understood densities. The following table shows the average densities determined using this method. The average density of known units and the percentage difference is also shown for comparison.

Table X: Average Box Density

Unit	Density (box)	#	Density	% diff.
Mineralized Dolomite	3.04	11	3.35	9.3
Limestone	2.62	15	2.79	6.1
Leopard Unit	2.66	2	2.93	9.2
Oxide (clay rich)	2.17	23	N.A.	N.A.
Oxide (rubbly)	2.49	11	N.A.	N.A.
Oxide (general)	2.27	8	N.A.	N.A.
All Oxide	*2.31*	*42*	*N.A.*	*N.A.*

In general, the densities determined by measuring box weight are 6% to 9% lower than those determine by taking measurements directly from the core. Assuming this is also true for the oxide material, it would indicate that its density lies between 2.40 and 2.75. However, due to the small data set, these results can only be used as an approximation.

GEOPHYSICS

In spring 2009, Condor Consulting Inc., was asked to complete processing, analysis and interpretation on EM and magnetic data obtained from VTEM surveys completed in 2007 and 2008. A copy of Condor's report can be found in Appendix XI. Figure 10 shows the anomalies identified by Condor as well as outlines of areas chosen for Maxwell modeling.

Strings of VTEM conductors have been identified throughout the Rau Property. Many of these parallel to faults and bedding. An approximately 25 km long linear magnetic high, corresponding to the Marmot Formation can be traced through the centre of the property. Typically, conductors can be found along the south side of this magnetic feature.

A modified ground pole-dipole IP survey was completed at the Tiger Zone by Aurora Geoscience of Whitehorse. The survey was done using a four person crew based out of a lodge located north of Mayo between August 4 and 13, 2009. Three lines, totaling 4.2 line-km corresponding to section lines 10+400NW, 10+120NW and 09+650NW were tested by this survey. A copy of Aurora's report can be found in Appendix XII.

On section line 10+400NW, a well defined chargeability high is located to the southwest of the baseline. The lower portion of this anomaly would have been pierced by hole Rau-09-52, which intersected unmineralized, brecciated limestone in this area. Unfortunately noise on section line 10+120NW made interpretation at depth, near the massive pyrite intersection in hole Rau-08-18, unusable. Only the near surface data (<100 m) was usable in the area of interest. On section line 09+650NW, a chargeability high is located at surface at 10+1000NE and dips to the northeast at approximately 45°. While the anomaly is untested by drilling, this orientation is similar to bedding and could represent a mineralized horizon.

DISCUSSION AND CONCLUSIONS

The Rau property hosts a significant new carbonate replacement gold discovery in Yukon with many similarities to the prolific gold districts in the Great Basin of Nevada. Key controls upon which many of the carbonate hosted deposits in Nevada are modeled include:

Slope and basin facies carbonate and turbitditic calcareous silisiclastic strata with moderate to abundant organic carbon; intercalated stratigraphic aquitards including volcanic (igneous) sills; proximity to a regional scale thrust fault placing deep water upper plate clastic rocks atop platformal rocks; compressional orogenic events resulting in complex folding including antiformal traps, ground preparation of calcareous rocks by way of decarbonatization and subsequent silicification and the development of high angle strain zones to accommodate later fluid flow; and an influx of gold undersaturated bi-sulfide complex fluids during relaxation of the compressional event depositing gold in ground prepped host rocks by interaction with available iron in the system. The temperatures of sulphidation of the bi-sulfide complexes is purported to be tightly constrained between 180 and 240 °C at low salinity. Sulphur isotope data suggests the fluids were derived from a deep magmatic source but there is no evidence of metal zoning through increasing or decreasing temperature gradients.

Regionally, the Rau property shares many geological similarities to the Nevada deposit settings as demonstrated throughout the report. Some of the finer points highlighting these observations come from samples collected within the Tiger and East Zones. Petrographic studies indicate the iron carbonate-silica-sulphide replacement predates the D1 deformation event implying the Rackla Pluton is not likely associated with the gold mineralizing event but may have resulted in a high temperature post mineralizing alteration overprint. Calcite twins observed in a number of samples are indicative of low temperatures of formation <200 °C and two phase liquid dominant inclusions suggest a low salinity environment with temperatures ranging between 150 and 300 °C.

As there are many similarities to the Nevada deposits, there are also a number of key differences. In general, the carbaonate stratigraphy at Rau appears to be more representative of upper slope facies nearer the platform margin as indicated by the biotic distribution of crinoids, stromatoporoids and corals. This shallower regime is inherently associated with low levels of organic carbon which is absent in the mineralized horizons. The mineralized horizons at Rau also lack extensive silicification after decardonatization during ground preparation of the host rocks. It is postulated that decarbonitzation at Rau was followed by replacement of readily available iron carbonates and lesser silica. This development has a profound effect on the dynamics of the system as it provides a readily available source of iron to promote sulphidation of the bi-sulphide complexes and the deposition of gold. The abundance of available iron in the host carbonate rocks is partly attributable to the large quantities of sulphide development in the Rau mineralizing system.

Limited sulphide microscopy suggests gold is associated with arsenopyrite, pyrite, gold-bismuth alloys and free gold. The major carrier among the samples examined is arsenopyrite while pyrite is considered a minor carrier. Sulphide paragenesis indicates and early phase of coarse grained pyrite which may be diagenetic in origin and several later phases of fine grained pyrite and medium-to-fine grained arsenopyrite. The presence of arsenopyrite implies higher temperatures of formation satisfying the arsenopyrite stability field.

The distribution of oxide and sulphide mineralization within the Tiger Zone is believed to be attributed to structural influences as is the concentration of gold grades along north trending faults zones oblique to the trend of the main strain corridor. The kinematics of these subordinate structures and enhanced gold grades are not yet understood but will be a point of focus for future exploration.

A number of mineral occurrences and coincident gold-in soil geochemical anomalies have been identified up to 15 km along strike from the Tiger Zone along the surface trace of the main strain corridor. Surface oxide samples collected 2 to 5 km from the Tiger Zone exhibit three distinct populations of associated metals and accessory elements. Population 1 is gold-dominant with accessory arsenic while Population 2 is silver-lead dominant with accessory zinc and traces of arsenic. The third population is an overlap assemblage that contains gold-silver-lead all in moderate quantities with variable zinc and arsenic. These samples may represent high level leakage anomalies and may be the result of a younger mineralizing event overprinting an existing deposit such as a structurally related gold overprint on a silver-lead-zinc MVT type deposit or vice-versa.

The location of each of these occurrences coincides with a distinct break in a regional scale linear magnetic feature that extends from the Tiger Zone northwest to the Beaver River. The breaks in the magnetic signature are believed to be associated with magnetite destructive alteration in the vicinity of major structures. Only cursory work has been conducted in the vicinity of these occurrences.

The Rau project has the potential to host district-scale deposits akin to those in parts of the Great Basin of Nevada. An aggressive exploration campaign is recommended to delineate the mineralization associated with the Tiger and East Zones in the core portion of the property

including deep drilling at strategic locations to test for additional mineralized horizons beneath the Discovery and Lower Horizons in proximity to the strain corridor. Peripheral exploration should also be done to develop drill targets in the vicinity of the mineral occurrences along strike from the Tiger Zone. This work should be done in conjunction with systematic evaluation of the remainder of the claim block using Bulk Leach Extractable Gold (BLEG) sampling techniques in addition to stream sediment sampling, soil sampling and prospecting to identify focused target areas for additional follow up work in the fall.

Respectfully submitted

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Matthew R. Dumala, P.Eng.

Julia Lane, B.Sc.

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APPENDIX I

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 2002 with a B.A.Sc in Geological Engineering, Option l, mineral and fuel exploration.

2. I registered as a Professional Engineer in the Province of British Columbia on November 14, 2008 (License Number 32783).

3. From 2003 to present, I have been actively engaged in mineral exploration in the Yukon Territory.

4. I have personally participated in the fieldwork reported herein.

Matthew R. Dumala, P.Eng.

STATEMENT OF QUALIFICATIONS

I, Julia C. Lane, project geologist with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2008 with a B.Sc. in Earth and Ocean Sciences.

2. From 2006 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Ontario.

3. I have personally participated in the field work reported herein and have assisted in the interpretation of data resulting from this work.

Julia C. Lane, B.Sc., GIT

APPENDIX II

TERRAIN ASSESSMENT AND ACCESS ROUTE EVALUATION BY EBA ENGINEERING CONSULTANTS LTD.

ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED

RAU PROPERTY - TERRAIN ASSESSMENT AND ACCESS ROUTE EVALUATION

W14101185

April 2010

EBA Engineering Consultants Ltd.
p. 867.668.3068 • f. 867.668.4349
Calcite Business Centre • Unit 6, 151 Industrial Road • Whitehorse, Yukon Y1A 2V3 • CANADA

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FIGURES

Terrain Legend for Figure 3
Figure 1 Location Map
Figure 2 Potential Road Alignment Options
Figure 3 Detailed Terrain Map (12 sheets)

APPENDICES

Appendix A General Conditions

1.0 INTRODUCTION

EBA Engineering Consultants Ltd. (EBA) was retained by Archer, Cathro and Associates Ltd. (Archer Cathro) to carry out a preliminary route selection and assessment of terrain for a suitable pioneer trail to the Rau Property, that could be upgraded to an all-weather road pending future mine development. The Rau Property is located in the Wernecke Mountains, about 50 km northeast of Keno City, Yukon and 385 km north of Whitehorse (Figure 1). This part of the central Yukon is included within the Na-cho Ny'a'k Dun (NND) First Nation traditional territory.

The preferred route (Option A – Figure 2) from the Hanson Lake Road, north of Keno City, Yukon follows the Rankin Creek valley and intersects the Wind River Trail (winter road) at Clark Lakes. The approximate centre of the study area is in UTM Zone 8 at 506000E and 7107000N and the route alignment is located on NTS maps 105M/14, 105M/15, 106D/1, 106D/2 and 106D/3. Stereoscopic air photograph interpretation and terrain mapping was undertaken by EBA Engineering Consultants Limited (EBA) for a minimum two kilometre wide corridor along the preferred access trail option in the Wernecke Mountains.

The Wernecke Mountains area has a long history of mining exploration. The Wind River Trail (winter road) was developed by Amerada Petroleum Corporation in 1959 to haul oil well drilling equipment and supplies to their camps on Eagle Plains. It has subsequently been used to service mining exploration projects.

2.0 METHODOLOGY

Terrain mapping was completed to characterize parent soils, drainage, genesis of surficial materials, slopes and geomorphological processes. This information is useful to identify favourable terrain, soils and environmental conditions for an access route. The following criteria were considered for the proposed route selection:

- minimize stream crossings;
- locate stream crossings in stable reaches with favourable surface conditions for bridge abutments and suitable approaches to minimize impacts;
- avoid areas with potential environmental concerns such as unfavourable soil conditions, permafrost and geomorphological processes such as flooding, landslides and avalanches;
- favourable construction materials;
- minimize environmental impact;
- locate the route in areas with favourable drainage; avoid lower hillslopes that are receiving areas for run-off and shallow groundwater. Locations with better drainage and soil conditions will require less water management and water control structures, and will require less maintenance.

NTS contour maps, geology mapping and air photographs for the study area were reviewed. 1:20,000 scale, black and white 1996 air photograph coverage for most of the route was used and is judged to be suitable for detailed terrain mapping with follow-up ground-truthing. Ground-truthing has not been completed to date and the mapping provided in this report remains at a general reconnaissance level of Terrain Survey Intensity (Level E-RIC, 1996[1]). Field-checking of up to 25% of the terrain polygons is planned for 2010 to increase the Terrain Survey Intensity to Level D, suitable for regional planning.

Stereographic review and interpretation of air photography was completed to map terrain and locate a probable route for a pioneer trail to the Rau Property. Consideration was given to a route that would be suitable for upgrading to an all-season road. Air photograph coverage at 1:20,000 is not available for the section of trail located in the Beaver River valley and terrain mapping in this section was completed at a reduced survey intensity level using 1:50,000 scale (approx.) air photographs. The results of the terrain mapping and route selection are preliminary and terrain soil conditions and water crossing locations cannot be verified until field checking and further aerial reconnaissance is completed.

Selection of the proposed access road alignment options (Figure 2) was guided by terrain conditions interpreted from review of air photographs including slope gradient, soil moisture and drainage, permafrost potential, erosion potential, overburden thickness, stream crossings, proximity to stream channels, assumed soil texture and geomorphological processes.

3.0 PHYSIOGRAPHY

The study area is located at the northern extent of the Stewart Plateau and Wernecke Mountains of the Mayo Lake-Ross River and Wernecke Mountains Ecoregions, and is largely glaciated by one or more glaciations. The area lies mostly within the Wernecke Mountains, which are characterized as steep, rugged topography with narrow valleys, although the valleys are wider in the southern part of this region where the access trail is proposed. Major watercourses in the area form the headwaters of the Stewart River, which flows to the Yukon River. The road corridor lies above 700 metres elevation above sea level with generally low relief. The maximum elevation is about 850 metres at the pass between Rankin and Scougale Creeks. The most common vegetation in valleys and on lower slopes is mixed spruce and aspen forest.

The area is predominantly underlain by metamorphic and sedimentary rocks. Valley floors and lower valley sideslopes are overlain by thick deposits of glaciofluvial material and glacial till. The proposed trail route is located within an area of discontinuous widespread permafrost. The full extent of the route is located on south and east-facing slopes, much of which appears to be in well-drained parent material, terrain conditions that are consistent

[1] Howes, D.E. and E. Kenk. Terrain Classification System for British Columbia. Version 2. Province of British Columbia. 1997.

with a low probability of permafrost. However, ground-truthing and more detailed evaluations are required to establish the extent of permafrost along the corridor.

4.0 SUMMARY OF RESULTS

Five route options were evaluated by stereoscopic air photograph interpretation. The results of the evaluation are summarized on Table 1.

The air photograph interpretation indicates that Option A contains suitable terrain for a pioneer trail that could be improved to construct an operative all-season road occurs throughout the length of the proposed route. A suitable access trail alignment, subject to ground-truthing, has been located through gentle to moderate terrain of suitable material to maximize cost-effective cut and fill methodology (Figures 1 to 12). The proposed pioneer trail is about 70 km in length from the Hanson Lake road to the cut-off for the active exploration site. A further 7 kilometres is proposed from the turn-off to the camp east to a proposed airstrip.

The proposed route from the Hanson Lake road via Gambler Lake and the Keno-Ladue River to Clark Lakes bypasses a section of the Wind River winter trail that is reported to be unsuitable for development as an all season road due to drainage, winter glaciation and overflow issues. The preferred route intersects the Wind River Trail (winter road) at Clark Lakes, following this existing trail to the Rau Property boundary at the Beaver River.

4.1 Surficial Geology

Surficial materials in the study area include fluvial material deposited by present streams and rivers, glacial till, glaciofluvial sands and gravels, and colluvium.

Fluvial plains (Fp) are typically sand and gravel with some silt and cobbles deposited in modern (Quaternary) drainages and include floodplain deposits subject to periodic floods. Till (moraine) deposits are deposited directly by glacier ice without modification by any other agent of transportation. Till (M) mapped in the study area includes Mv: till veneer (0-1m thick) that conforms to bedrock topography; and Mb: till blanket (>1m thick), a gently to moderately sloping plain controlled by bedrock.

Glaciofluvial deposits (FG) are stratified to massive, poorly to well sorted; gravel and sand with minor silt and occasional cobbles and boulders that are deposited by meltwater originating from glacial ice. Glaciofluvial deposits are generally preferred sources of granular material for road construction. A glaciofluvial terrace (FGt) is typically greater than 5 m to 10 m thick.

Colluvial deposits (C), common on all slopes in the region, include diamicton and gravel, shattered bedrock and lenses of sand and silt derived from bedrock and surficial materials by a variety of physical and chemical weathering processes. Transport of dislodged debris occurs as surface creep, sheetwash, or by mass wasting processes. In some sections the

proposed access trail route is located at the base of moderate gradient slopes where colluvium would be the dominant surficial material expected.

Morainal (till) deposits (M) are deposited directly by glacial ice. In the study area, till blanket (Mb; >1m thick) is mapped underlying lower valley slopes of the Beaver River.

4.2 Terrain Hazards

Throughout the study area, the geomorphological processes within the route corridor identified by stereoscopic air photograph interpretation were limited to two areas of potential avalanche (-A) hazard and a small, slow movement landslide about 1.5 km past the junction with the mine access trail. There is some potential for debris flow landslides (-Rd) in streams that drain mountain basins. No areas of potential rockfall were mapped within the road alignment corridor and, with the exception of some stream and river crossings, the proposed trail is located in areas judged to have a low probability of flooding.

Avalanche hazard in the study area is not extensive and is judged to be manageable if the access road was to be used in the winter period. The small landslide identified in the Beaver River valley is judged to be a slow moving and possibly inactive slide initiated on an escarpment from relic undercut by an abandoned river channel (Figure 11). Conscientious drainage management and location of the road corridor on gentle terrain upslope of this feature are judged to be adequate to have a low probability of impact. This area should be ground-truthed to assess terrain stability prior to construction.

Table 1: Summary of Alternate Route Assessments	
ROUTE OPTION	DESCRIPTION AND ASSESSMENT
Option A (Recommended)	From Hanson Lake Road about 12 km northwest of Keno City via Gambler Lake, Rankin Creek and Wind River Trail from Clark Lakes to Beaver River
▪ terrain conditions appear favourable throughout the area of the proposed route; ▪ avoids a potentially problematic section of the Wind River Trail with poor drainage conditions; ▪ optimizes a stable section of the existing Wind River Trail.	
Option B	Alternate access to Route A via Keno City and the Marg Winter Trail
▪ follows a narrow, steep-sided valley with an existing trail. A section of the most northerly part of the existing trail is located within the floodplain of the main stream; ▪ a 600 m section crosses slide debris from a relic landslide on the northwest valley hill slopes; ▪ central section appears to include some glaciofluvial terraces that may provide favourable construction material; ▪ southern section includes existing mining trails, however, many do not correspond to a direct route and may not be practical; ▪ access is through Keno City. Disturbance from commercial traffic was identified as an issue with recent mine access planning and development of the local Alexco Resources Bellekeno Mine; ▪ Conclusion: this is a feasible route; however, some existing trails along the route are pioneer trails that do not correspond to the most favourable alignment. Long sections, particularly in the north, follow narrow, steep-sided valley hillslopes that may limit road location to potentially imperfectly-drained lower slopes and/or the floodplain of the stream. The terrain is less favourable than that of other route options.	
Option C	Alternate access to Route A from the Hanson Lake Road via the north side of Ladue Lake
▪ Much of the route is located within NND Lands; ▪ About 3 km of the route follows close to the shore of Ladue Lake across low valley sideslopes that receive run-off from high mountain slopes with two stream crossings; drainage management and construction close to the lake may require strict environmental conditions; the alternate route by Gambler Lake is likely a more practical alternative; ▪ Conclusion: terrain, location and drainage issues present this route as less favourable than Option A.	

Table 1: Summary of Alternate Route Assessments	
ROUTE OPTION	DESCRIPTION AND ASSESSMENT
Option D	Wind River Trail (winter road) from Hanson Lake Road to Clarke Lakes
▪ much of this route is located in low elevation areas with poor drainage conditions reported; construction through these areas may present unfavourable environmental conditions and higher construction costs; ▪ follows the existing Hanson Lake Road to it's terminus ("km 0"); ▪ km 1 to km 24: the winter trail is located on lower hillslopes; much of this section of the route appears to have a high likelihood of imperfect drainage and it is the receiving area for run-off from upper hillslopes; upgrades to this section may be constrained by water issues that would require disproportionate water management and specialized construction; however, the winter route parallels a broad (FG) terrace with irregular terrain and numerous kettle lakes located within about 2 km north of the winter trail. Surficial materials in this area are more likely to be well drained sands and gravels providing favourable material for road construction and this may be a practical alternate route. ▪ km 24 to km 29 (Clark Lakes): the winter trail is located on lower hillslopes and flat valley floors, receiving considerable run-off drainage from upper hillslopes; in this area there doesn't appear to be a more favourable alternative for the route location; ▪ most of the route has a north-facing aspect with a high probability of permafrost; specialized construction in areas of permafrost would be required to reduce the possibility of permafrost degradation; ▪ new road construction distance (north of the terminus of Hanson Lake Road) is shorter than Option A (29 km verses 37 km for Alternative A); however, poor drainage and soil conditions on the Wind River Trail would likely necessitate relocation of the route through much of the area;	
Option E	Alternate access to Wind River Winter Road via southeast side of Scougale Creek within NND R-4A Settlement Lands
▪ most of the route is located within NND Lands; ▪ terrain along the route is favourable and the parent materials are likely suitable for road construction; ▪ there is no existing trail; the alternate route (Option A) on the northwest side of Scougale Creek follows the existing Wind River Trail; ▪ the south approach to the Beaver River crossing is not optimal (moderately steep, relatively long slope embankment; the south bank of the Beaver River channel is at the toe of the slope).	

5.0 DISCUSSION AND RECOMMENDATIONS

This reconnaissance level study is based solely on air photograph interpretation and the terrain mapping must be field-checked and revised prior to its use for development planning. EBA does not endorse the results of this preliminary study prior to field checking and subsequent mapping revisions.

Based on stereoscopic air photograph interpretation by EBA and an aerial reconnaissance completed by Archer Cathro in 2009, Option A (Table 1) is judged to be the preferred option for the proposed pioneer trail to the Rau Property for the following reasons:

- Favourable terrain conditions and surficial materials;
- optimizes a stable section of the existing Wind River Trail between Clark Lakes and the Beaver River;
- Abundant favourable granular borrow material for road construction is mapped throughout the route;
- Alternate route options include unfavourable terrain conditions in some sections or they are located on NND Settlement Lands.

Assessment of the terrain has been completed at a reconnaissance level with no field checking. Much of the terrain along the proposed route is generally characterized by glaciofluvial deposits with good drainage. Some sections with underlying till and colluvium appear to have favourable or manageable drainage conditions. The proposed route is located on south and east aspects with a resultant lower likelihood of permafrost. Field-checking is recommended to validate the terrain interpretation and confirm soil textures.

Prior to proceeding with advanced planning for construction, low level air photos (e.g., 1:20,000 scale) should be acquired along the Beaver River section of the proposed trail to permit detailed terrain mapping and development planning. Stream crossings should be assessed by a professional to design effective and adequate crossing structures. High energy mountain streams with active geomorphological processes such as debris flows may be encountered and will require specific assessment to select stable crossing locations and suitable structures. River crossings should be surveyed to aid in bridge design. Once access to the area has been established with the development of a pioneer trail, a geotechnical test pitting program is recommended to confirm sub-surface materials along the corridor, at major stream crossings and at potential borrow locations.

Where possible, slopes with less favourable drainage conditions (high soil moisture) (e.g., lower valley hillslopes) should be avoided. Once the results of field checking and revisions are integrated to complete this study, if actual terrain conditions encountered at any specific site do not conform to the broad mapping polygon, a qualified professional should be retained to provide a site specific assessment and to provide recommendations for construction and drainage management.

South-facing slopes are less likely to be underlain by permafrost and are generally preferred for road construction. Permafrost is also less likely in the fluvial plains of major streams and rivers. The presence of permafrost should be evaluated during ground-truthing. If permafrost is identified, alternate routes should be sought to avoid these areas or specific construction methods designed by a qualified professional should be applied for construction in these areas.

Active natural erosion, weathering and periglacial processes are expected to have minimal to negligible impact on the proposed trail alignment. Avalanche conditions were noted on an east-facing slope in the headwaters of Rankin Creek at about kilometer 31 of the proposed access trail and on some slopes in the Beaver River valley. Avalanche hazard should be considered when designing maintenance and safety protocols for an all-season road.

Sixteen potential borrow areas for construction material have been located as a preliminary guide for assessment. These sites require field assessment and testing, and if selected as a source of borrow material for future road construction, a borrow pit would be developed within the area, i.e., borrow material would be acquired from a small part of the exploration area shown. Borrow Areas have been located in gentle to moderate terrain with slopes of less than 30 % gradient and greater than 30 m from a watercourse. The borrow areas are judged to have favourable drainage and are located in areas that could be developed and managed with a low probability of environmental impact.

The airstrip is located on terrain mapped as a glaciofluvial terrace. This terrain type typically provides optimum conditions for development of an airstrip, namely flat topography slightly raised above adjacent terrain, loose sand and gravel parent materials and good drainage.

6.0 LIMITATIONS

The reconnaissance level terrain interpretation was completed by review of air photographs with no field checking. Terrain polygon boundaries were not georectified and all boundaries and access trail locations are approximate. Field checking of terrain must be completed before the surficial geology interpretation is used for development planning. Stream crossings cannot be adequately evaluated prior to an on-site assessment.

7.0 CLOSURE

This report has been prepared for the exclusive use of Archer Cathro and Associates (1981) and their agents for the specific application described in this report. It has been prepared in accordance with generally accepted geoscience practices, and geoscience judgement has been applied in developing the recommendations of this report. Further limitations on the use of this report are outlined in the General Conditions (Appendix A) that form a part of this report.

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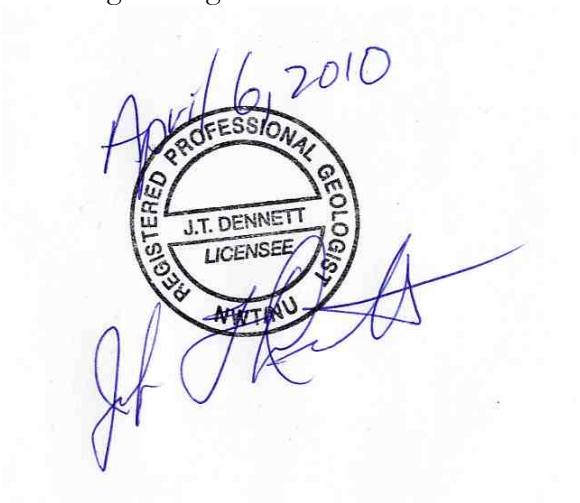

Jack T. Dennett, P.Geol.(NWT)
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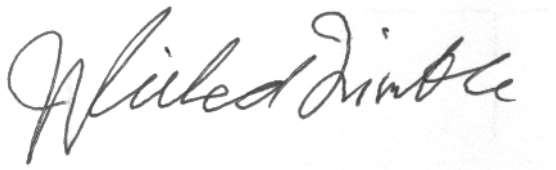
Reviewed by:



J. Richard Trimble, M.Sc. (Eng.), P.Eng.
Principal Consultant, Office Manager
phone: 867.668.2071 x222
rtrimble@eba.ca

FIGURES

TERRAIN LEGEND FOR FIGURE 3

(1) TERRAIN UNIT SYMBOLS

surficial material ↘ ↙ initiation zone
texture → **aCk - R"b** ← geomorphological process subclass
surface expression ↗ ↖ geomorphological process

Composite Units: Up to three letters may be used to describe any characteristic. Processes follow the dash "-" symbol.

e.g.	Mv•Rk	indicates "Mv" and "Rk" are roughly equal in extent
	Mv/Rk	indicates "Mv" is more extensive than "Rk" (about 2/1 or 3/2)
	Mv//Rk	indicates "Mv" is much more extensive than "Rk" (about 3/1 or 4/1)
	/Mw Rk	indicates "Rk" is partially buried by "Mw"

Stratigraphic Units: When one or more surficial materials overlie a different material or bedrock.

e.g.	Mw Rr	indicates that "Mw" overlies "Rr"

(2) TEXTURE

Specific Clastic Terms

c	clay	< 2 µm
z	silt	2 - 62.5 µm
s	sand	62.5 µm - 2 mm
p	pebbles	2 mm – 64 mm; rounded particles
k	cobbles	64 mm – 256 mm; rounded particles
b	boulders	> 256 mm; rounded particles
a	blocks	> 256 mm; angular particles

Common Clastic Terms

x	angular fragments	mixture of rubble (r) and blocks (a)
g	gravel	mixture of pebbles (p), cobbles (k), boulders (b) and up to 20% sand
r	rubble	angular particles < 64 mm

(3) MATERIALS

C	Colluvium	Products of gravitational slope movements; materials derived from local bedrock and major deposits derived from drift; includes talus and landslide deposits. Includes up to 20% bedrock.
F	Fluvial sediments	Sands and gravels transported and deposited by streams and rivers; floodplains, terraces and alluvial fans.
FG	Glaciofluvial sediments	Sands and gravels transported and deposited by meltwater streams; includes kames, eskers and outwash plains.
LG	Glaciolacustrine sediments	Fine sand, silt and clay deposited in ice-dammed lakes.
M	Till	Material deposited by glaciers without modification by flowing water. Typically consists of a mixture of pebbles, cobbles and boulders in a matrix of sand, silt and clay; diamicton. Includes up to 20% bedrock and/or colluvium.
O	Organic materials	Material resulting from the accumulation of decaying vegetative matter; includes peat and organic soils.
R	Bedrock	Outcrops and bedrock within a few centimetres of the surface. Includes up to 20% colluvium.

4) SURFACE EXPRESSION

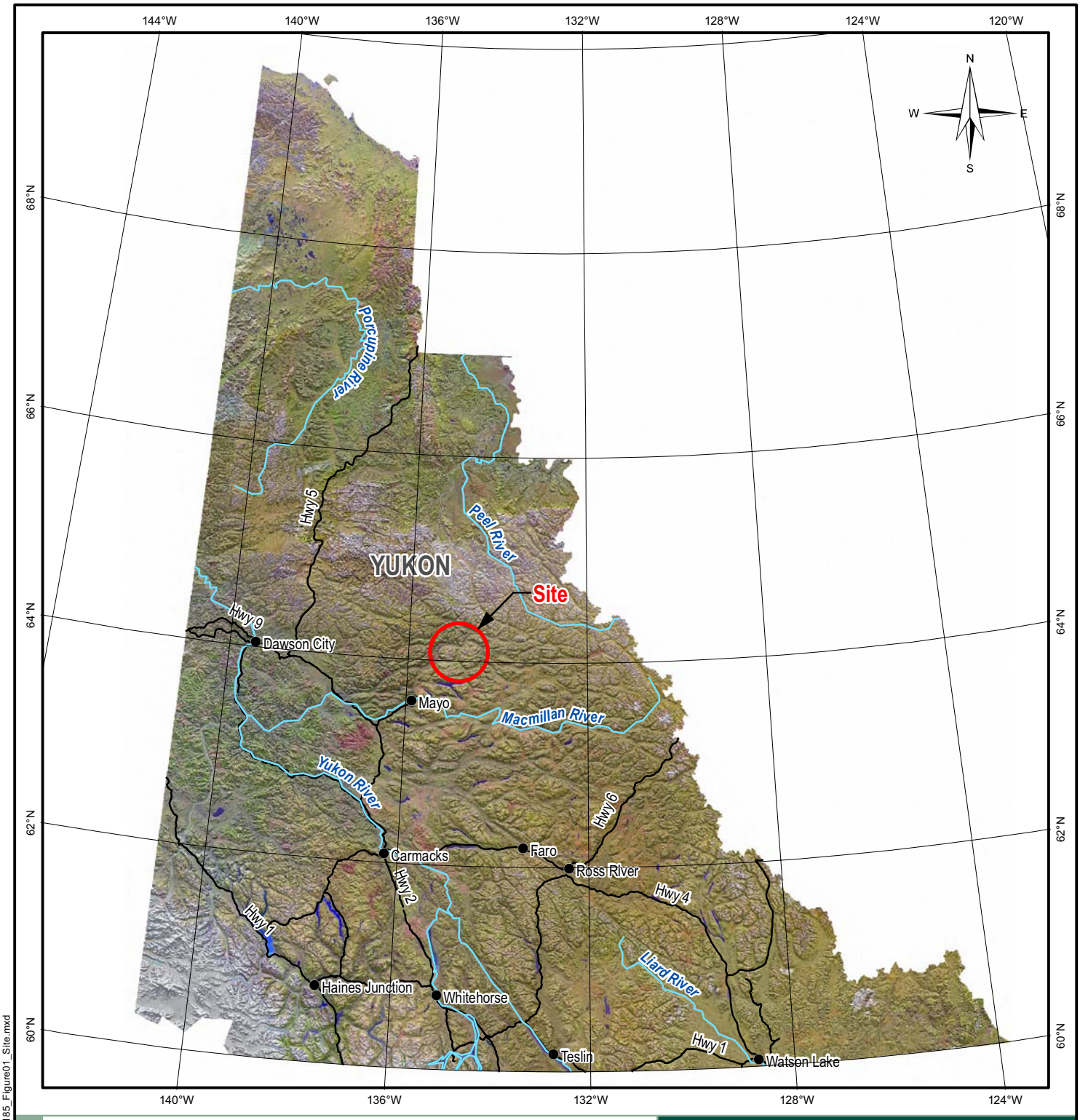
a	moderate slope(s)	predominantly planar slopes; 15-26º (28 - 49%)
b	blanket	material >1-2 m thick with topography derived from underlying bedrock (which may not be mapped) or surficial material
d	discontinuous	used with FG where it indicates partial coverage due to erosion or interrupted deposition with exposure of underlying or secondary (M)
f	fan	a fan-shaped surface that is a sector of a cone; slopes 3-15º (5-27%)
h	hummocky	steep-sided hillocks and hollows; many slopes 15º (27%) and steeper
i	irregular	mostly used with FG; low to moderate relief (less than 10 m) irregularly shaped hummocks, low ridges, hollows, swales typically found in glacial ice-melt areas; may include kettled topography, discontinuous eskers, depressions and discontinuous glaciofluvial channels
j	gentle slope(s)	predominantly planar slopes; 4-15º (6 - 27%)
k	moderately steep slope	predominantly planar slopes; 26-35º (50 - 70%)
m	rolling topography	linear rises and depressions; < 15º (27%)
p	plain	0-3º (0-5%)
r	ridges	linear rises and depressions with many slopes 15º and steeper
s	steep slope(s)	slopes steeper than 35º (> 70%)
t	terrace(s)	stepped topography and benchlands
u	undulating topography	hillocks and hollows; slopes predominantly <15º
v	veneer	material <1-2 m thick with topography derived from underlying bedrock (may not be mapped) or surficial materials; may include outcrops of underlying material
w	mantle	surficial material of variable thickness
x	thin veneer	a subset of v (veneer), where there is a dominance of surficial materials about 10-25 centimetres thick

(5) GEOMORPHOLOGICAL PROCESSES

A	Avalanche	Slope or parts of slope affected by downhill transport of snow and resulting deposition
B	Braiding channel	Active channel zone is characterized by many diverging and converging channels separated by unvegetated bars. Many channels are dry at moderate and low flows, but during major floods, the entire channel zone may be occupied by flowing water.
E	Channelled by meltwater	Erosion and channel formation by meltwater alongside, beneath, or in front of a glacier or ice sheet.
F	Failing	Slope experiencing slow mass movement, such as sliding or slumping
R	Rapid mass movement	Slope or parts of slope affected by processes such as debris flows, debris slides and avalanches, and rockfall
V	Gullying	Slope affected by gully erosion.

Mass Movement Sub-Classes

-R	rapid mass movement
-R"	rapid mass movement - initiation zone
-Rb	rock fall
-Rs	debris slide



LEGEND

- Populated Place
- Major Road
- Major River

NOTES

Base data source:
Geomatics Yukon

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PROPOSED ACCESS CORRIDOR

Site Location

PROJECTION	DATUM
Yukon Albers	NAD83

Scale: 1:6,000,000

100 50 0 100

Kilometres

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FILE NO.: W14101185_Figure01_Site.mxd

PROJECT NO.	DWN	CKD	REV
W14101185	MEZ	JD	0

OFFICE	DATE
EBA-VANC	March 23, 2010

Figure 1

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480000 490000 500000 510000 520000 530000 540000 550000

7120000 7110000 7100000 7090000

N W E S

NND R-9B

NND R-5A

NND R-4A

Clark Lakes

McQuesten Lake

Hanson Lakes

Beaver River

Rackla River

Keno Ledue River

Option A

Option B

Option C

Option D

Option E

480000 490000 500000 510000 520000 530000 540000 550000

LEGEND

Proposed Road Alignment Options

- Option A
- Option B
- Option C
- Option D
- Option E
- Road
- Trail

- Contour (100 m)
- Watercourse
- Waterbody
- Quartz Claim
- First Nations Settlement Lands

NOTES

Base data source: NTS 1:50,000 & 1:250,000

ISSUED FOR REVIEW

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Potential Road Alignment Options

PROJECTION: UTM Zone 8		DATUM: NAD83	
Scale: 1:200,000 (4 2 0 4 Kilometres)			
FILE NO.: W14101185_Figure02_Alignments.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 23, 2010		

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Figure 2

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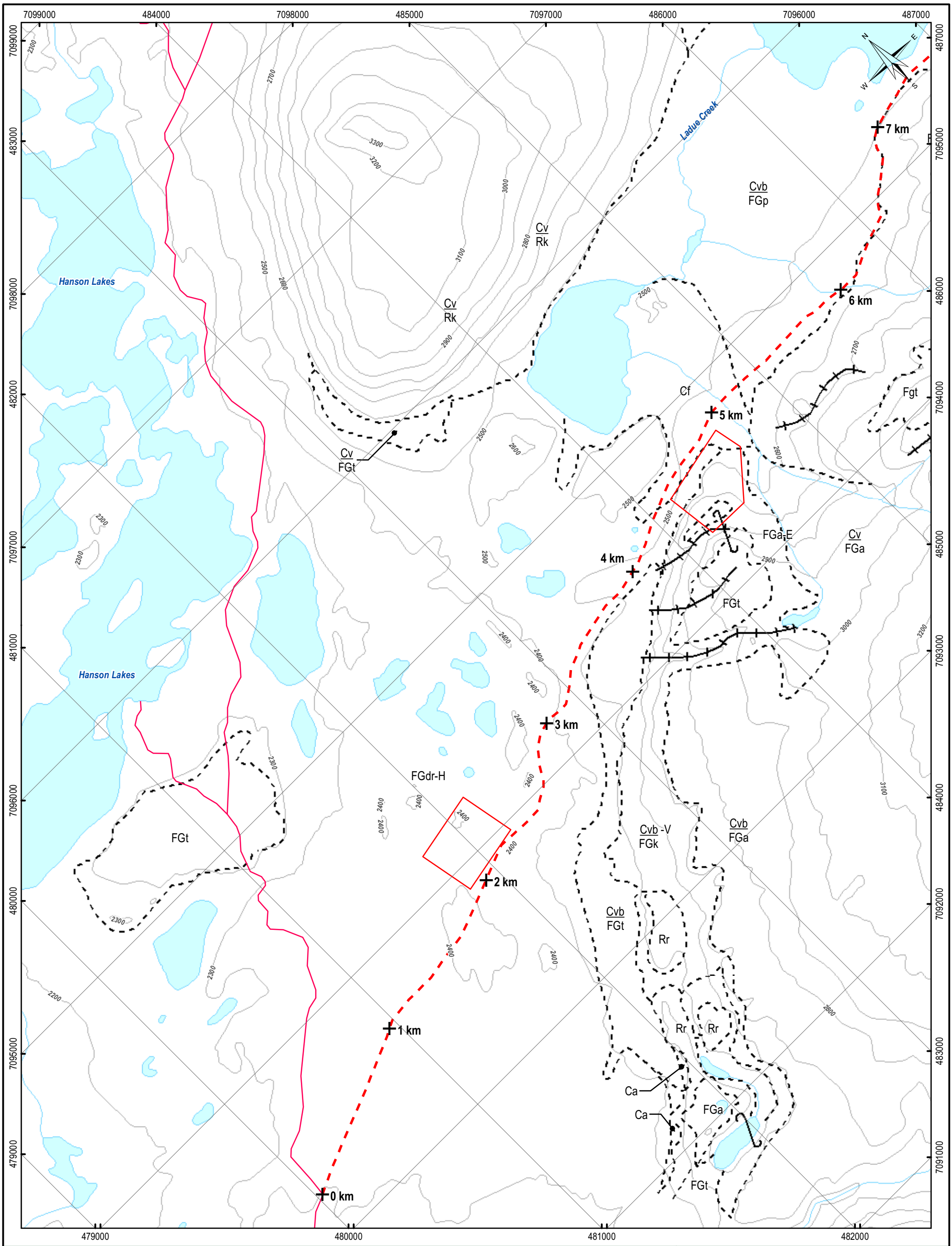


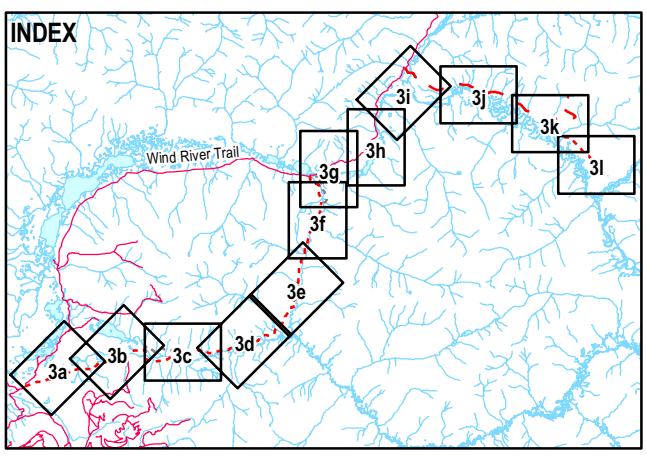
LEGEND

- Terrain Boundary
- Proposed Road Corridor
- Proposed Alternate Road Corridor
- Kilometer Marker
- Potential Borrow Source Development Area
- Glacial Ice Directional Feature (Flutings)
- Glaciofluvial Channel
- Avalanche
- Landslide
- Proposed Airstrip
- Existing Road
- Limited Use Road
- Contours (100 ft)
- Watercourse
- Waterbody
- First Nations Settlement Lands

NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

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FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

EBA Engineering Consultants Ltd.

Figure 3a

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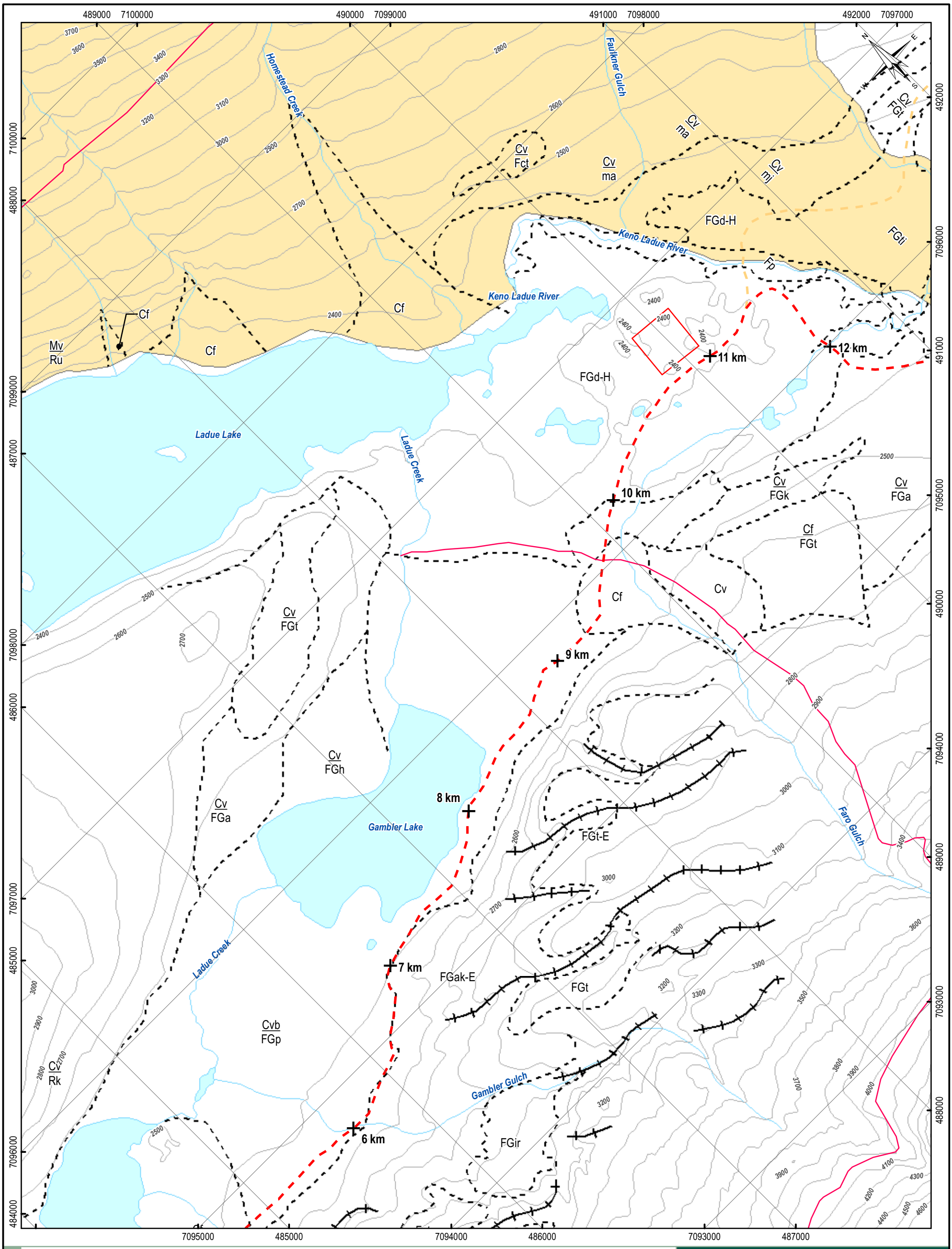


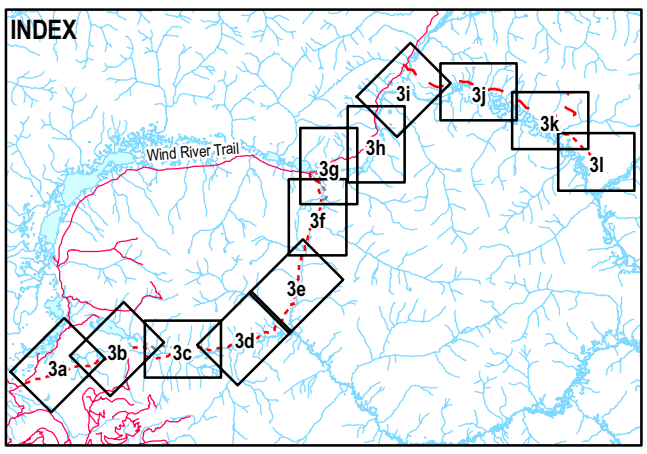
LEGEND

- Terrain Boundary
- Proposed Road Corridor
- Proposed Alternate Road Corridor
- Kilometer Marker
- Potential Borrow Source Development Area
- Glacial Ice Directional Feature (Flutings)
- Glaciofluvial Channel
- Avalanche
- Landslide
- Proposed Airstrip
- Existing Road
- Limited Use Road
- Contours (100 ft)
- Watercourse
- Waterbody
- First Nations Settlement Lands

NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION: UTM Zone 8	DATUM: NAD83		
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FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

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Figure 3b

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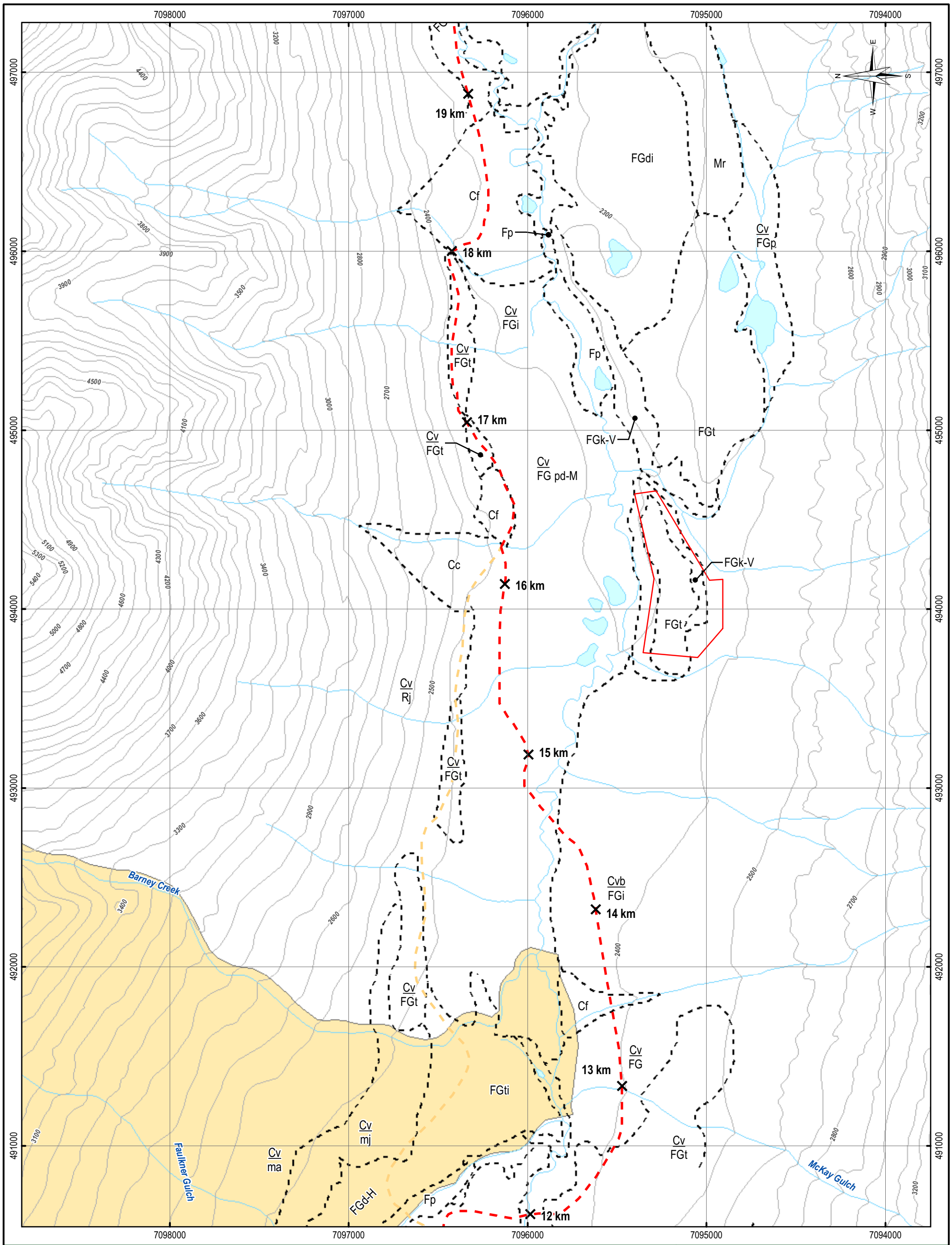

LEGEND

- Terrain Boundary
- Proposed Road Corridor
- Proposed Alternate Road Corridor
- Kilometer Marker
- Potential Borrow Source Development Area
- Glacial Ice Directional Feature (Flutings)
- Glaciofluvial Channel
- Avalanche
- Landslide
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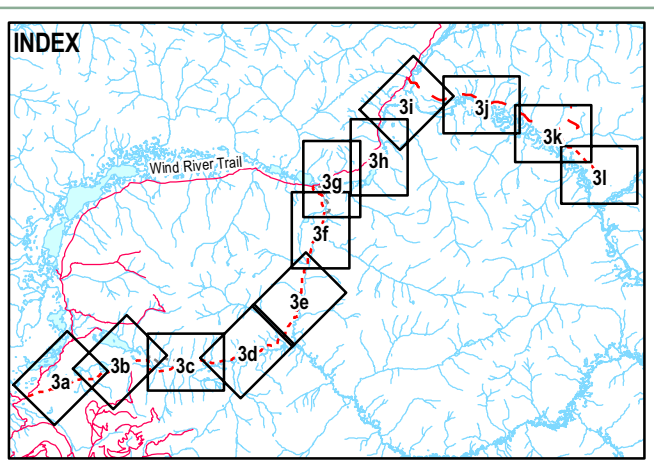
- Existing Road
- Limited Use Road
- Contours (100 ft)
- Watercourse
- Waterbody
- First Nations Settlement Lands

NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION	DATUM
UTM Zone 8	NAD83

Scale: 1:20,000

400 200 0 400

Meters

FILE NO.: W14101185_TerrainMapBook.mxd

PROJECT NO.	DWN	CKD	REV
W14101185	MEZ	JD	0

OFFICE	DATE
EBA-VANC	March 24, 2010

EBA Engineering Consultants Ltd.

Figure 3c

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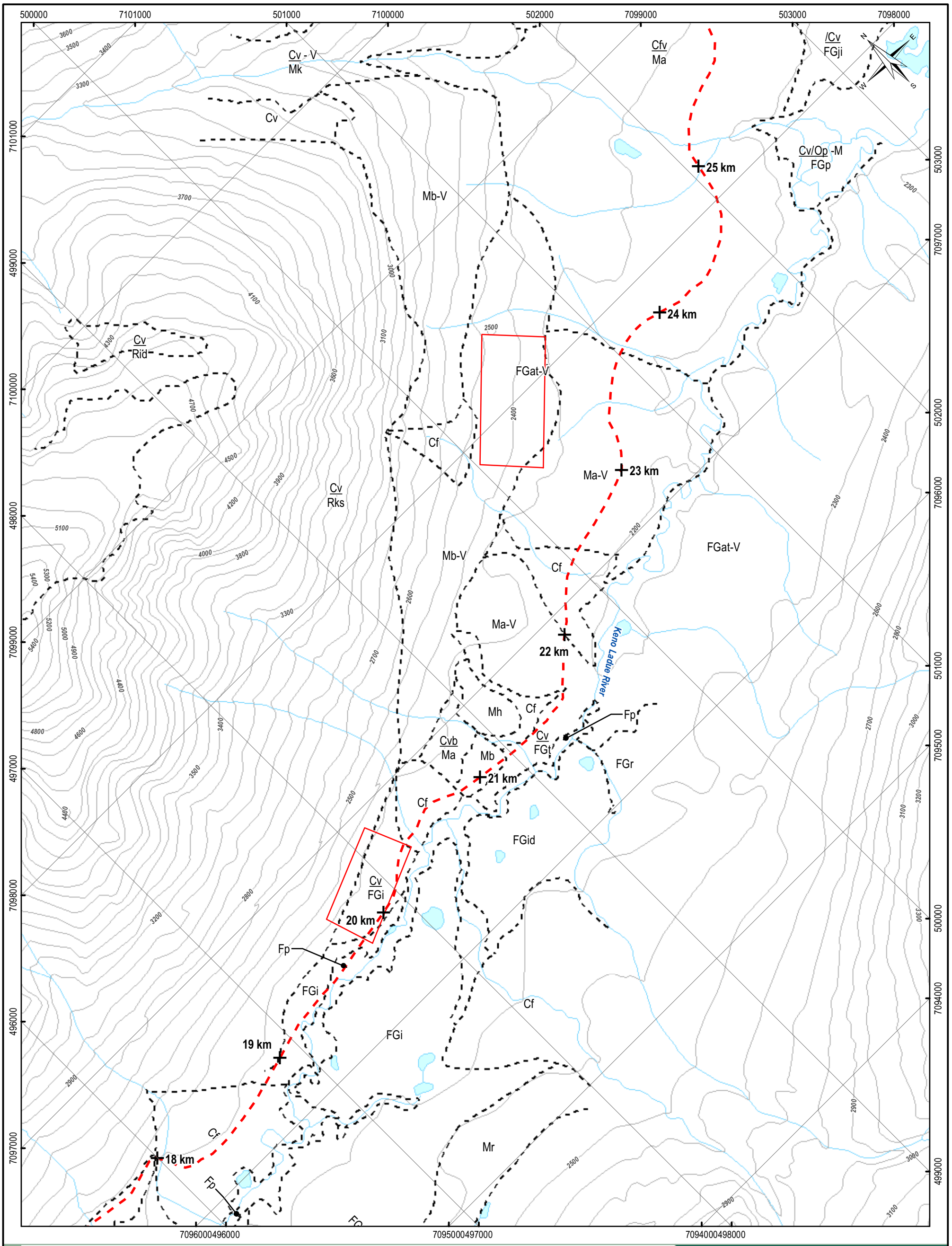

LEGEND

- Terrain Boundary
- Proposed Road Corridor
- Proposed Alternate Road Corridor
- Kilometer Marker
- Potential Borrow Source Development Area
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- Limited Use Road
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- Watercourse
- Waterbody
- First Nations Settlement Lands

NOTES

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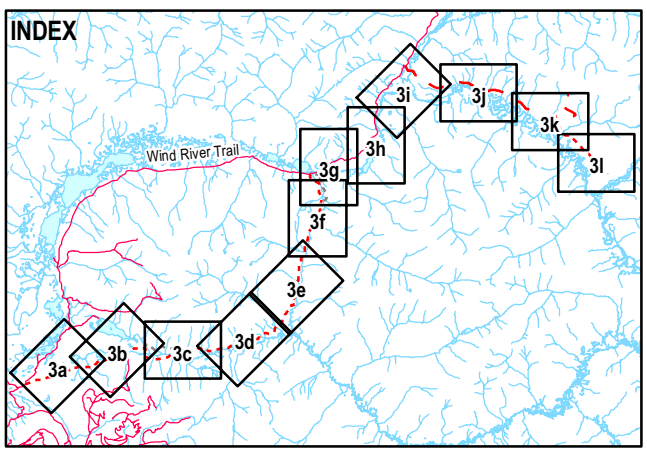

RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

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FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

EBA Engineering Consultants Ltd.

Figure 3d

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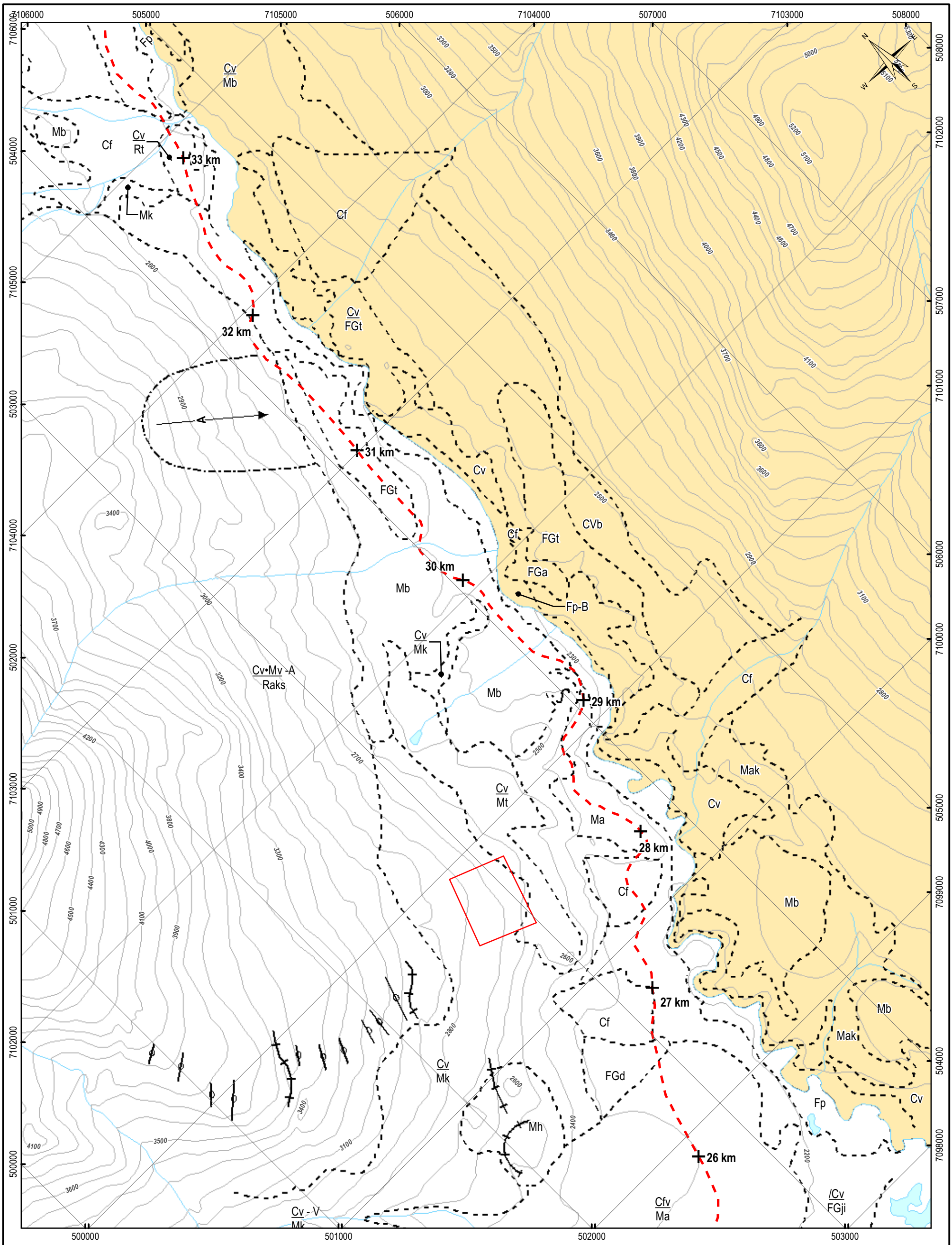

LEGEND

- Terrain Boundary
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NOTES

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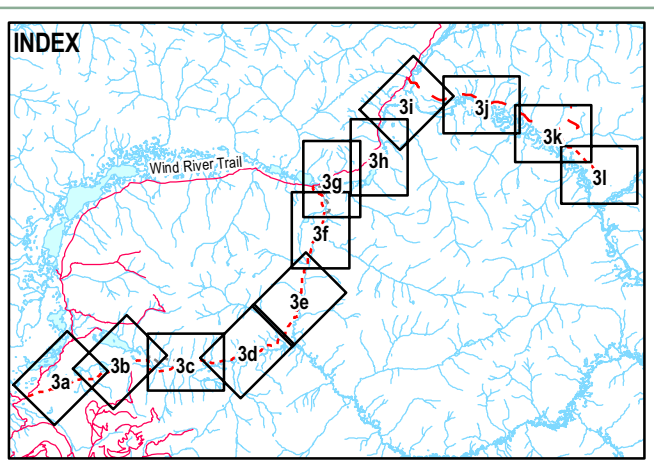
ISSUED FOR REVIEW



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

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PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

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Figure 3e

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504000 505000 506000 507000 508000

7111000 7110000 7109000 7108000 7107000 7106000 7105000

Cv/Rk
40 km
FGk
Cv/Ra
Cv/Rm
39 km
Mk-V
Mm
Mm
Cv•Mi
Cv/Mb
Mb-E
38 km
Mvb
37 km
Mb
2800
36 km
Cv/Mb
Mb-E
Fp
35 km
Cv/Mar
Mb
FGa
Mbr
Mr-E
Cf
Rankin Creek
Cf
FGt
FGk-V
FGt
FGt
34 km
Mr-E
Cv/Rs
Mb-V
Mb
Fp
Cf
Cv/Rt
Cv/Mb
33 km
Mk

LEGEND

- Terrain Boundary
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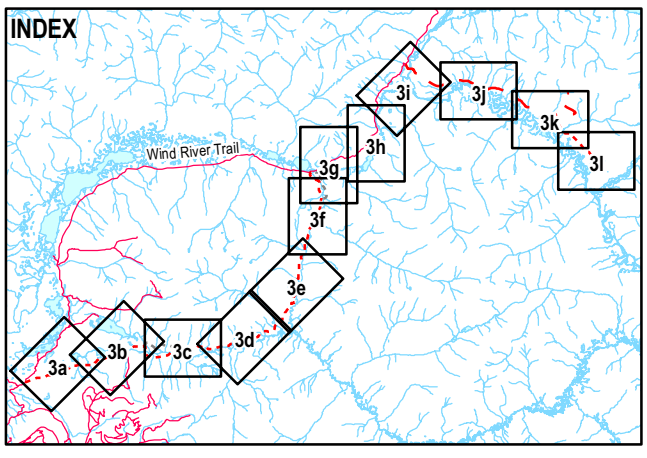
NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW

INDEX



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION: UTM Zone 8		DATUM: NAD83	
Scale: 1:20,000 (400 200 0 400 Meters)			
FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

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Figure 3f

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505000 506000 507000 508000 509000

7115000 7114000 7113000 7112000 7111000 7110000

N W E S

Cf
Cv Rks
Cfc
Cv FGt
Cv Mb
Cv Rk
Cv Ra
Cv Rm
Cv Fgp
Cv•Mi
Ov Fgt
FGa
FGr
FGt
FGk
FGka
FGti
FGak
Fp
Mk-V
Mm
Mb-E

44 km
45 km
43 km
42 km
41 km
40 km
39 km
38 km

Clark Lakes

LEGEND

- Terrain Boundary
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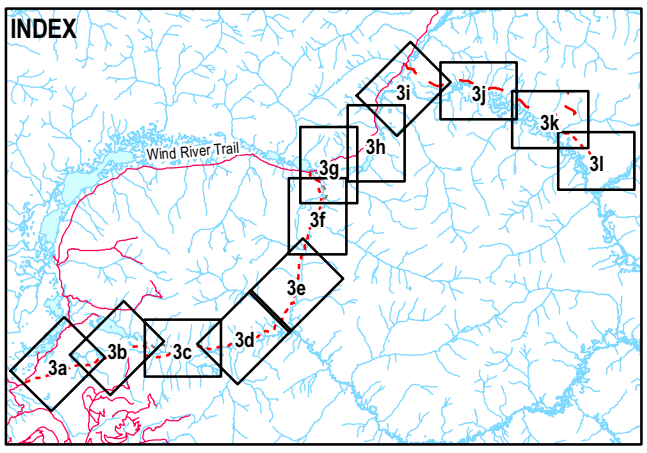
NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW

INDEX



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION: UTM Zone 8		DATUM: NAD83	
Scale: 1:20,000 (400 200 0 400 Meters)			EBA Engineering Consultants Ltd.
FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		Figure 3g

Q:\Vancouver\GIS\ENGINEERING\W141\W14101185_Rau\Maps\W14101185_TerrainMapBook.mxd

509000 510000 511000 512000 513000

7117000 7116000 7115000 7114000 7113000 7112000

51 km
50 km
49 km
48 km
47 km
46 km
45 km

Cf
FGa
FGt
Mb-V
Rk
Scougale Lakes
Cv
Fgp
FGak
FGia
FGih
FGdi

N W E S

Q:\Vancouver\GIS\ENGINEERING\W141\W14101185_Rau\Maps\W14101185_TerrainMapBook.mxd

514000 7123000 515000 7122000 516000 7121000 517000 7120000

7123000 513000 7122000 512000 7121000 511000 7120000 510000 7119000

7118000 510000 7117000 511000 7116000 512000 7115000

517000 7119000 516000 7118000 515000 7117000 514000 7116000 513000 7115000

60 km
59 km
58 km
57 km
56 km
55 km
54 km
53 km
52 km
51 km

Cv
FGt
FGk
Fp-I
Cv
FGt
FGk
FGa
FGt
Ov -H
FGp
FGa
FGt
FGtd
Cvf
Cf
FGt
FGtd
FGt
FGk
Cv
FGi
Mb
Cv -A
Rk
Cf

Wind River Trail
Scougale Creek

FGk
FGt
FGk
FGk
FGt
FGk
Fp-I
Fp-I

LEGEND

- Terrain Boundary
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- Proposed Alternate Road Corridor
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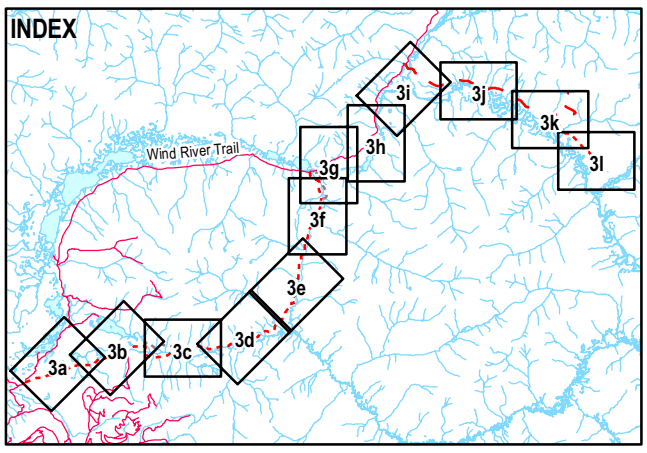
- Potential Borrow Source Development Area
- Glacial Ice Directional Feature (Flutings)
- Glaciofluvial Channel
- Avalanche
- Landslide
- Proposed Airstrip
- Existing Road
- Limited Use Road
- Contours (100 ft)
- Watercourse
- Waterbody
- First Nations Settlement Lands

NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW

INDEX



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION	DATUM
UTM Zone 8	NAD83

Scale: 1:20,000

400 200 0 400

Meters

EBA Engineering Consultants Ltd.

FILE NO.: W14101185_TerrainMapBook.mxd

PROJECT NO.	DWN	CKD	REV
W14101185	MEZ	JD	0

OFFICE	DATE
EBA-VANC	March 24, 2010

Figure 3i

Q:\Vancouver\GIS\ENGINEERING\W141\W14101185_Rau\Maps\W14101185_TerrainMapBook.mxd

7121000 7120000 7119000 7118000 7117000

523000 522000 521000 520000 519000 518000 517000

67 km
66 km
65 km
64 km
63 km
62 km
61 km

Cv
Mb

Cv
Fp

Cf

Cf

Cv - VA
Rk

Fp

Beaver River

LEGEND

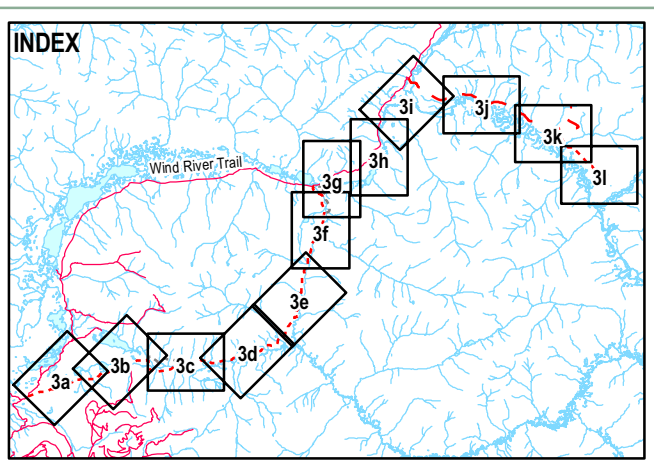
- Terrain Boundary
- Proposed Road Corridor
- Proposed Alternate Road Corridor
- Kilometer Marker
- Potential Borrow Source Development Area
- Glacial Ice Directional Feature (Flutings)
- Glaciofluvial Channel
- Avalanche
- Landslide
- Proposed Airstrip
- Existing Road
- Limited Use Road
- Contours (100 ft)
- Watercourse
- Waterbody
- First Nations Settlement Lands

NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW

INDEX



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION: UTM Zone 8		DATUM: NAD83	
Scale: 1:20,000 (400 200 0 400 Meters)			
FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

EBA Engineering Consultants Ltd.

Figure 3j

Q:\Vancouver\GIS\ENGINEERING\W141\W14101185_Rau\Maps\W14101185_TerrainMapBook.mxd

7118000 7117000 7116000 7115000 7114000

529000 528000 527000 526000 525000 524000 523000

75 km
74 km
73 km
72 km
71 km
70 km
69 km
68 km

Cv
FGt
Mb-FV
Mb-F''b
Cv
Mb
Cv
Rj
Cf
Cv
Fp
Cv
Rk-VA'
Cf
Cv
FGt
Cv
FGt
Cc
Cv
Fp
Beaver River

LEGEND

- Terrain Boundary
- Proposed Road Corridor
- Proposed Alternate Road Corridor
- Kilometer Marker
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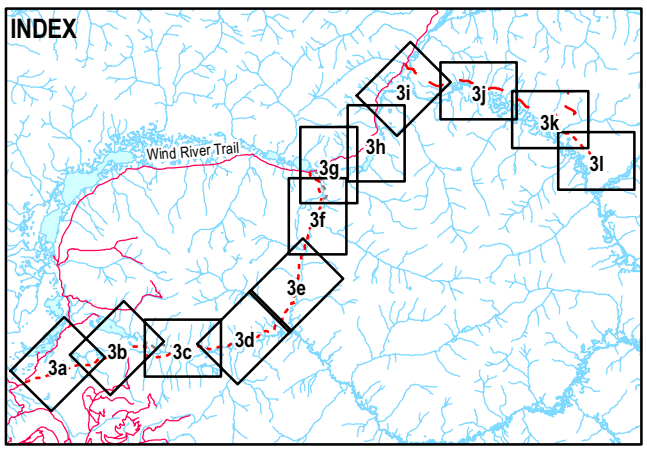
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW

INDEX



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION: UTM Zone 8	DATUM: NAD83		
Scale: 1:20,000 (400 200 0 400 Meters)			
FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

EBA Engineering Consultants Ltd.

Figure 3k

Q:\Vancouver\GIS\ENGINEERING\W141\W14101185_Rau\Maps\W14101185_TerrainMapBook.mxd

7115000 7114000 7113000 7112000 7111000

533000 532000 531000 530000 529000 528000

Fp

FGh

Cv

FGt

FGa

FGi

77 km

76 km

75 km

74 km

73 km

Cv
Rh

Cv
FGt

Ft

Cv
Rk-VA'

Cf

LEGEND

- Terrain Boundary
- Proposed Road Corridor
- Proposed Alternate Road Corridor
- Kilometer Marker
- Potential Borrow Source Development Area
- Glacial Ice Directional Feature (Flutings)
- Glaciofluvial Channel
- Avalanche
- Landslide
- Proposed Airstrip
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- Contours (100 ft)
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- Waterbody
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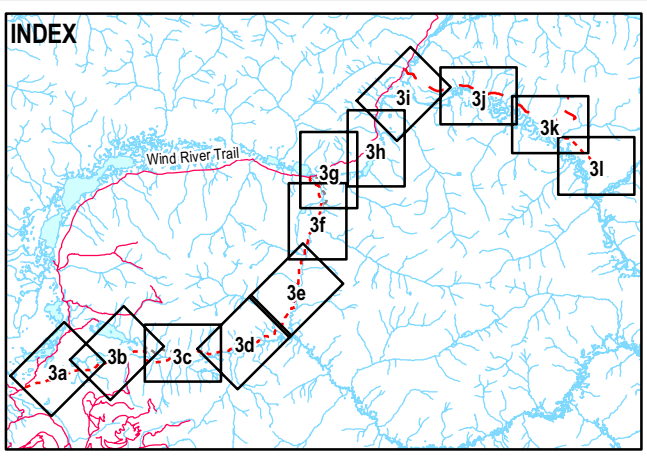
NOTES

1. Legend of Terrain Symbols Appended
2. Base data source: NTS 1:50,000

ISSUED FOR REVIEW

INDEX



RAU MINING PROPERTY
PROPOSED ACCESS CORRIDOR

Terrain Mapping

PROJECTION: UTM Zone 8		DATUM: NAD83	
Scale: 1:20,000 (400 200 0 400 Meters)			
FILE NO.: W14101185_TerrainMapBook.mxd			
PROJECT NO.: W14101185	DWN: MEZ	CKD: JD	REV: 0
OFFICE: EBA-VANC	DATE: March 24, 2010		

EBA Engineering Consultants Ltd.

Figure 3l

APPENDIX

APPENDIX A GENERAL CONDITIONS

GEOTECHNICAL REPORT – GENERAL CONDITIONS

This report incorporates and is subject to these "General Conditions".

1.0 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of EBA's Client. EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's Client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of EBA. Additional copies of the report, if required, may be obtained upon request.

2.0 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. EBA's instruments of professional service will be used only and exactly as submitted by EBA.

Electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

3.0 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

4.0 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

5.0 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

6.0 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

7.0 SURFACE WATER AND GROUNDWATER CONDITIONS

Surface and groundwater conditions mentioned in this report are those observed at the times recorded in the report. These conditions vary with geological detail between observation sites; annual, seasonal and special meteorologic conditions; and with development activity. Interpretation of water conditions from observations and records is judgemental and constitutes an evaluation of circumstances as influenced by geology, meteorology and development activity. Deviations from these observations may occur during the course of development activities.

8.0 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

9.0 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

10.0 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

11.0 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

12.0 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

13.0 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

14.0 SAMPLES

EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

APPENDIX III

BASELINE WATER QUALITY SURVEY REPORTS BY J. GIBSON

Atac Resources Ltd.

BEAVER RIVER STREAM PROFILE

July 2009

J.Gibson Environmental Consulting Whitehorse, Yukon

Introduction

In advance of a possible winter road access to the Rau Claims, Atac Resources requested a site identification, stream profile and stream flow measurement of the Beaver River in the area upstream of the Scougale Creek confluence with the Beaver River.

There is an existing limited use winter trail adjacent to the Beaver River.

Site Selection

The survey of July 31, 2009 identified a stable river crossing site adjacent to the existing limited use trail (see attached Water Quality / Hydrology Stations map). Site selection was based on the presence of stable river banks, uniform stream flow across the profile and relatively consistent water depths.

The Beaver River confluence with the Rackla River is located approximately 20 kilometers downstream.

Stream Profile

A stream cross sectional profile was done July 31, 2009.
Stream profile data was collected with a "Total Station and Prism Rod" instrument.
Profile data is attached in Table 1 and on profile graph.

Stream Flow Volume

Beaver River flow volume measurement was done in conjunction with the stream profile.
Stream velocity data was obtained with a Price Velocity meter and top set wading rod.
Horizontal distances for the stream flow measurement used survey data, with water depth measured using the top set wading rod.
Stream flow volume calculations are attached in the Stage/Discharge Calculation Sheet.

Flow volume in the Beaver River upstream of Scougale Creek was measured at 11.85 cubic meters per second on July 31, 2009. Mean velocity within the cross section was 0.635 meters per second with maximum depth measured at 0.70 meters.

Historical Data

Environment Canada – Water Survey of Canada maintains a water survey station on the Beaver River below Matson Creek, approximately 80 – 100 kilometers downstream of the confluence with Scougale Creek.
Water Survey of Canada data covers a 13 year period from December 1995 to December 2007. 2008 data is yet to be published and released on their web site.

Discharge Calculations

The July 31, 2009 measured volume at Beaver River upstream Scougale Creek is 13.3% of the July mean monthly discharge at the downstream Water Survey station.

Using the July 31 relationship between stations, the following data for Beaver River upstream Scougale Creek is calculated:

Month	**Maximum Monthly Mean**		**Minimum Monthly Mean**	
	(cms)		*(cms)*	
	D/S Matson	***U/S Scougale***	***D/S Matson***	***U/S Scougale***
Dec	19.6	*2.60*	10.3	*1.37*
Jan	15.8	*2.10*	4.14	*0.55*
Feb	13.3	*1.77*	5.22	*0.69*
Mar	11.4	*1.52*	5.61	*0.75*

The Beaver River crossing would be utilized within the period December to March.

The expected flow volumes during that time would be within the range of :

Maximum 1.52 to 2.60 cubic meters per second

Minimum 0.75 to 1.37 cubic meters per second

Water Survey of Canada data for Beaver Creek below Matson Creek is attached.

River crossing site photographs are attached.

Attachments

1. Water Quality / Hydrology Stations Map
2. Beaver River Crossing Profile
3. Profile Measurement Data
4. Stage Discharge Calculations
5. Site Photographs
6. Water Survey of Canada Data – Beaver River D/S Matson Cr

Stage Discharge Calculations

Project: **ATAC RESOURCES** **Date:** **Jul31/09**

Site: **Beaver River @ Xing**

Point	Depth *(meters)*	Width *(meters)*	Velocity *(m/sec)*	Area *(m sq)*	Volume *(cms)*
5.3	0	1.2	0	0	0
7.7	0.12	2.5	0.331	0.300	0.099
10.3	0.18	2.45	0.735	0.441	0.324
12.6	0.36	2.5	0.495	0.900	0.446
15.3	0.42	2.45	0.66	1.029	0.679
17.5	0.56	2.25	0.66	1.260	0.832
19.8	0.66	2.35	0.735	1.551	1.140
22.2	0.68	2.25	0.845	1.530	1.293
24.3	0.7	2.05	0.769	1.435	1.104
26.3	0.67	2.1	0.825	1.407	1.161
28.5	0.65	2.2	0.735	1.430	1.051
30.7	0.58	2.1	0.66	1.218	0.804
32.7	0.54	2.35	0.66	1.269	0.838
35.4	0.47	2.35	0.564	1.105	0.623
37.4	0.46	2.05	0.495	0.943	0.467
39.5	0.46	2.2	0.564	1.012	0.571
41.8	0.42	2.3	0.432	0.966	0.417
44.1	0	1.15	0	0.000	0.000
			Mean Velocity		
38.8		**38.8**	*0.635*		**11.8471**

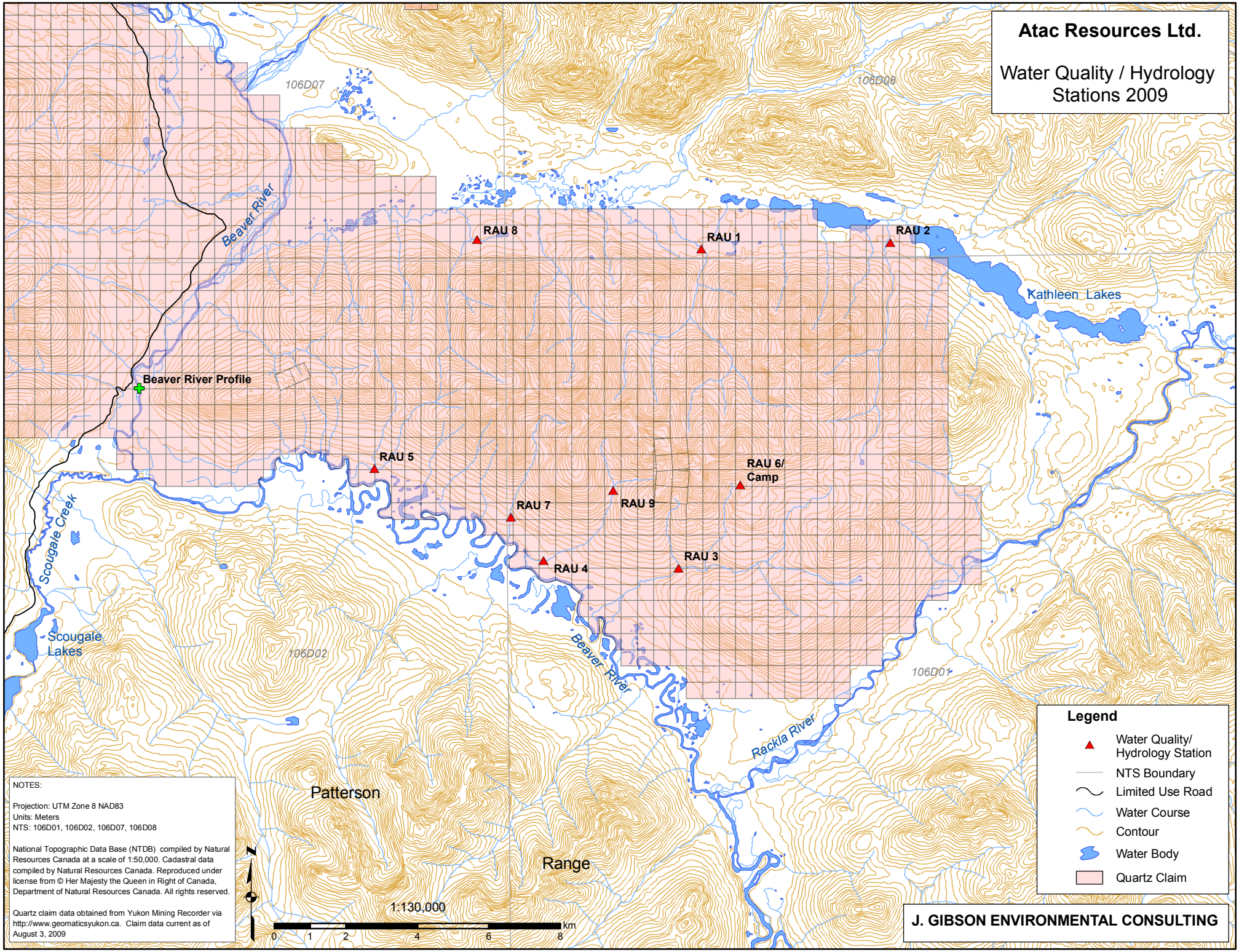
SG @ Start no SG
SG @ End

Data logger reading: no logger Time: 930

Channel under ice? no

Method: Price Velocity meter

Crew: J.Gibson


Atac Resources Ltd.
Water Quality / Hydrology Stations 2009
106D07
106D08
106D02
106D01
Beaver River
Beaver River Profile
RAU 8
RAU 1
RAU 2
Kathleen Lakes
RAU 5
RAU 6/ Camp
RAU 7
RAU 9
RAU 4
RAU 3
Scougale Creek
Scougale Lakes
Rackla River
Patterson
Range
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 106D01, 106D02, 106D07, 106D08
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of August 3, 2009
N
1:130,000
0 1 2 4 6 8 km
Legend
Water Quality/ Hydrology Station
NTS Boundary
Limited Use Road
Water Course
Contour
Water Body
Quartz Claim
J. GIBSON ENVIRONMENTAL CONSULTING

Atac Resources
Beaver River Crossing - Stream Profile
July 31, 2009

Streamflow volume = 11.8 m²/sec

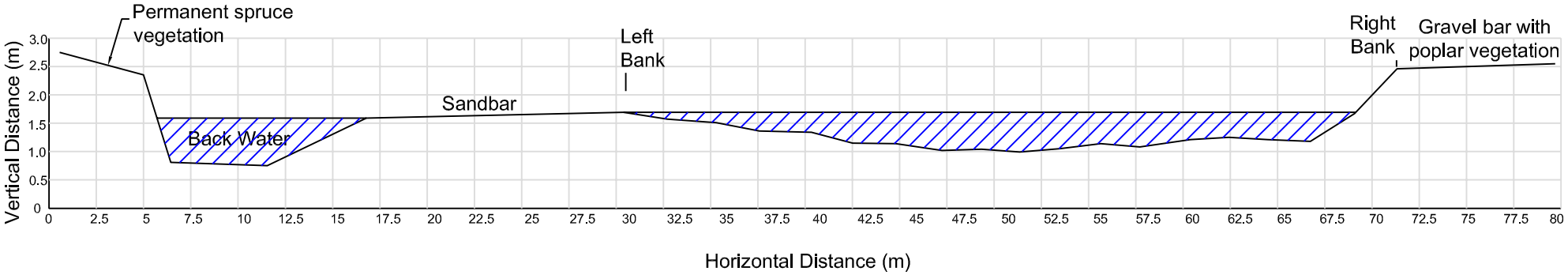


Table 1. Beaver River Upstream Rackla River
Measurement Data - Stream Profile July 31, 2009

Horizontal Distance (m)	*Vertical Distance (m)*	*Comments*
0.56	2.75	Left limit
4.99	2.35	
6.44	0.81	
11.55	0.75	
16.79	1.59	
30.39	1.69	
32.71	1.57	
35.30	1.51	
37.58	1.36	
40.34	1.34	
42.52	1.15	
44.81	1.08	
47.25	1.02	
49.34	1.04	
51.35	0.99	
53.47	1.05	
55.65	1.14	
57.72	1.08	
60.39	1.21	
62.42	1.25	
64.47	1.21	
66.75	1.18	
69.08	1.67	
71.33	2.46	
79.70	2.55	Right Limit

ATAC RESOURCES LTD

RAU CLAIMS

Baseline Water Quality Survey

June 2009

J.Gibson Env. Consulting ***Whitehorse, Yukon***

Atac Resources Ltd requested a baseline water quality / hydrology surveys be conducted on the surface water tributaries draining the area of the RAU Claims north of Keno City, Yukon.

The RAU Claims are located near the confluence of the Beaver River and the Rackla River. Streams draining south of the claims are tributaries to the Beaver River with streams draining north and west of the claims being tributaries to the Rackla River. Immediately north of the claims are the Kathleen Lakes as part of the Rackla River drainage.
The confluence of the Beaver and Rackla Rivers is located to the south of the claims.

An active big game outfitter's camp is located on the Kathleen Lake system.

Water quality / hydrology survey done in June 2009 is the third survey, following surveys in August and October, 2008.

Exploration activity on the RAU Claims in June 2009 consists of a 15 person exploration camp starting diamond drill set up and operations.
There was no exploration / camp activity during the October 2008 survey.
The exploration camp and all survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals with field measurements for pH, water temperature and flow volumes. June 2009 survey includes the addition of Total Cyanide, Total Mercury and Total Organic Carbon at all stations with exception of RAU #6 (drinking water supply).

Sample Locations

Eight water quality sample sites were established in August, 2008 on tributary streams draining the RAU Claims (see attached locations map).

Sample station designations, coordinates and elevations are:

Station #	Lat/Long Coordinates	Elevation (m)
RAU #1	64 15.152 / 134 23.193	747
RAU #2	64 15.224 / 134 16.650	750
RAU #3	64 10.350 / 134 24.091	787
RAU #4	64 10.253 / 134 28.599	659
RAU #5	64 11.940 / 134 34.455	655
RAU #6	Upstream of Camp	
RAU #7	64 11.104 / 134 29.739	702
RAU #8	64 15.782 / 134 31.634	718

Station coordinates and elevations are for helicopter landing sites. Due to the topography and thick vegetation it was often necessary to located / construct landing sites up to100 meters distance from sample sites. Landing sites are marked by a large tree blaze, spray painted orange with sample designation number marked on the blaze.

Sample Analysis Parameters

Each station was sampled for routine chemistry, total metals, dissolved metals, total cyanide, total mercury and total organic carbon.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total mercury, total and dissolved metal samples were preserved with nitric acid immediately after sampling.

Total cyanide samples were preserved with sodium hydroxide immediately after sampling.

There were no quality control samples taken in June 2009.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Bodycote T.G. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH were taken with an Oakton 300M meter, water temperatures with an alcohol thermometer.

Stream flow volumes were measured with a Price AA velocity meter and cross sectional area calculations.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. Routine Chemistry, Total Cyanide, Total Organic Carbon – laboratory analysis and field measurement results

Table 2. Total Metals ICP and Total Mercury– MS laboratory analysis results

Table 3. Dissolved Metals ICP – MS laboratory analysis results

Listed with the analysis data are the laboratory detection limits for each parameter.

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to CCME – ***Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Bodycote Testing Group of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Flow volume calculation sheets are contained in Appendix 2.

A summary of water quality / hydrology data for each station is attached in Appendix 3.

Discussion

Hydrology

The June 2009 survey was done with tributary streams in decreasing flow stage from spring freshet. The Beaver River was in "bank full" stage with Rackla River decreasing from bank full stage. Differences in stage between rivers is likely due to lake storage in the Rackla River system.
Measured tributary flow volumes for the June 2009 survey are generally higher than those measured in August and October 2008.

Measured flow volumes for each station are listed below.

Measured Stream Flow Volumes – RAU Claims 2008/09

Station	Flow Volume (cubic meters/second)		
	August 2008	**October 2008**	**June 2009**
RAU #1	**0.502**	**0.734**	**0.747**
RAU #2	**0.234**	**0.430**	**0.287**
RAU #3	**0.493**	**0.690**	**0.461**
RAU #4	**0.043**		**0.066**
RAU #5	**0.038**		**0.023**
RAU #6	**0.025 Estimated**		**0.010 E**
RAU #7	**0.027**	**0.042**	**0.039**
RAU #8	**0.074**		**0.374**

Flow volume calculations are contained in Appendix 2.

Routine Chemistry

Field measurement and lab analysis results for routine chemistry are listed in Table 1.

Sampling and laboratory analysis for parameters total cyanide, total mercury and total organic carbon was begun in addition to parameters from previous events. Total cyanide and total organic carbon analysis results are listed with routine chemistry parameters in Table 1, total mercury analysis results with total metals in Table 2.

Analysis results for all stations for all parameters measured meet the *Drinking Water Guideline's MA*C's.

Analysis results for all parameters with the exception of Nitrite – N meet the *CCME Guidelines* for the protection of Aquatic Life.

Nitrite – N values in June 2009 were below *Aquatic Guideline* concentration (0.06 mg/L) at all stations with the exception of RAU #5. Station RAU #5 has Nitrite – N values above the *Aquatic Guideline* concentration for all three surveys (0.14 mg/L in June 2009, 0.16mg/L in October and 0.14 mg/L in August of 2008)
The presence of Nitrite – N in the absence of any industrial pollutants may be the result of nitrification, oxidation of ammonia by bacteria. The pH values for all sites are near/ above the optimum oxidation pH of 8.0. The rate of nitrification would be inhibited by the low water temperature.
Nitrate – N was also detected at all stations with values ranging from 0.08 to 0.26 mg/L in June 2009, 0.07 to 0.21 mg/L in August 2008, 0.1 to 0.34 mg/L in October 2008.

Total Hardness as CaC03 values range from 114 – 286 mg/L, giving a continued hardness rating of "hard to very hard".

Total cyanide was detected at all stations with the exception of RAU#7. Total cyanide concentrations were consistently at the detection limit of 0.001 mg/L. Station RAU#6 was not sampled for total cyanide. Total cyanide levels are well below Drinking Water and Aquatic Guideline levels.

Total organic carbon values range from 0.6 to 3.1 mg/L.

Metals

The laboratory analytical report notes that some total metal results are less than dissolved metal concentrations but are verified and are within the expected measurement uncertainty.

Total metals analysis results are listed in Table 2, dissolved metals analysis results in Table 3.

Total metals concentrations exceed the *Drinking Water Guidelines* for iron (*MAC* of 0.3 mg/L) at RAU#3 (0.39 mg/L) and RAU#5 (0.31 mg/L).

Total metals concentrations exceeded *Aquatic Guideline* levels for aluminum at RAU#1 and RAU#3, for iron at RAU#3 and RAU#5, for selenium at RAU#1, RAU#3 and RAU#5 and for zinc at RAU#5 and RAU#8.

Station RAU #1

Station RAU #1 is located on a tributary to Kathleen Lakes / Rackla River. The tributary is one of the larger watersheds draining the claim area with a measured stream flow volume in June 2009 of 0.747 cubic meters per second (cms), increased from 0.502 cms (August) and 0.734 cms (October). Stream flows are contained within a single channel with well defined banks and a rock and cobble channel base. Freshet 2009 flows exceed the channel capacity with high water marks an estimated 0.2 – 0.25 meters above channel banks at the station.
Total metals analysis at Station RAU #1 had no parameters exceeds the *Drinking Water Quality Guidelines (DWQ).*
Concentrations of total aluminum (0.126 mg/L) and total selenium (0.0014 mg/L) exceed the *CCME Aquatic Guidelines.* Both selenium and aluminum levels are approximately half the levels measured in October 2008.

Station RAU #2

Station RAU #2 is located on a tributary of the Rackla River that discharges directly into Kathleen Lakes. Measured stream flow volumes in June 2009 were 0.287 cms compared with 0.430 cms in October and 0.234 cms in August 2008.
Total metals analysis results show concentrations of total iron (0.016 mg/L are decreased from 0.27 mg/L in October and 0.34 mg/L in August. Previously elevated levels of total manganese (0.077 mg/L in October) now meet the *DWQ Guidelines MAC* of 0.05 mg/L. Concentrations of all parameters meet the *CCME – Aquatic Guidelines.*

Station RAU #3

Station RAU #3 is located on a tributary to the Beaver River. This tributary is the largest tributary to the Beaver River draining the claim area with a measured stream flow volume in June of 0.461 cms compared to 0.690 cms in October and 0.493 cms in August. The station is located approximately 2 km upstream of stream confluence with the Beaver River. The stream channel is contained within a canyon, stream bed consists of boulders, rock and cobbles.

The exploration camp is located near the headwaters of this tributary as is Station RAU#6.
Total metals analysis results show concentrations of total iron (0.39 mg/L) exceed the *DWQ Guideline MAC* of 0.3 mg/L.
Concentrations of total iron, total aluminum (0.195 mg/L) and total selenium (0.0012 mg/L) show decreases from August and October 2008 but continue to slightly exceed the *CCME – Aquatic Guidelines*.

Station RAU #4

Station RAU #4 is located on a tributary to the Beaver River. The station has a small lake/pond within the system that accounts for the elevated water temperature.

Measured flow volumes in June 2009 of 0.066 cms are higher than those measured in August 2008 of 0.043 cms. The station was not accessed during the October 2008 survey.

June 2009 analysis results, as those from August 2008 show no parameters exceed the *DWQ or CCME – Aquatic Guidelines.*

Station RAU #5

Station RAU #5 is located on a tributary to the Beaver River east of Station RAU #4. The station is located near the mouth, downstream of the break in slope.

Stream flow volumes were measured at 0.023 cms compared to 0.038 cms in August 2008. No flow measurement was done in October 2008.
Concentrations of total iron (0.31 mg/L) exceed *DWQ-Guideline MAC* of 0.3 mg/L
Total metals analysis results concentrations of total iron (0.31 mg/L), total selenium (0.0024mg/L) and total zinc (0.049 mg/L) exceed the *CCME – Aquatic Guidelines.*

Station RAU #6

Station RAU #6 is located on the same tributary as Station RAU #3 and represents the camp drinking water supply.
Concentrations of all parameters measured meet all *DWQ* and *Aquatic Guidelines*.
RAU#6 analysis results are also listed as camp supply in Table 4.

Station RAU #7

Station RAU #7 is located on a tributary to the Beaver River. The station is located approximately 1 kilometer upstream of the confluence with the Beaver River just

Table 4. RAU Claims - Camp Drinking Water Supply

Parameter		Camp Supply RAU #6	DWQ* Guideline MAC's
pH	ru	8.24	6 to 8.5
Chloride	mg/L	0.09	<250
Nitrite	mg/L	<0.01	1
Nitrate	mg/L	0.17	10
T.Dissolved Solids	mg/L	158	500
Hardness as CaC03	mg/L	141	<500
Total Metals			
Aluminum	mg/L	<0.005	
Antimony	mg/L	<0.0002	0.006
Arsenic	mg/L	<0.0002	0.01
Barium	mg/L	0.065	1
Boron	mg/L	<0.005	5
Cadmium	mg/L	<0.00001	0.005
Calcium	mg/L	34.7	
Chromium	mg/L	0.0004	0.05
Cobalt	mg/L	<0.00002	
Copper	mg/L	<0.001	1
Iron	mg/L	0.01	0.3
Lead	mg/L	0.0003	0.01
Lithium	mg/L	<0.001	
Magnesium	mg/L	13.3	
Manganese	mg/L	0.0001	0.05
Molybdenum	mg/L	0.00158	
Sulfur	mg/L	2	
Selenium	mg/L	<0.0006	0.01
Strontium	mg/L	0.02	
Silicon	mg/L	1.07	
Sodium	mg/L	0.92	<200
Titanium	mg/L	0.0003	
Uranium	mg/L	0.002	0.02
Zinc	mg/L	0.007	<5

DWQ* = Canadian Drinking Water Quality Guideline
MAC = Maximum Acceptable Concentration

upstream of the break in slope. The stream is single channel contained within stable banks. Stream bed materials are rock and cobble with limited silt deposition.
June stream flow volumes were measured at 0.039 cms compared with 0.042 cms in October and 0.027 cms in August 2008.
Total metals analysis results for June 2009 show values for all parameters tested meet the *DWQ and CCME Aquatic Guidelines* as they did in August and October 2008.

Station RAU #8

Station RAU #8 is located on a tributary to the Rackla River upstream of Kathleen Lakes. Due to topography and vegetation, the survey site is located near the stream mouth / confluence with the Rackla River. The stream is confined to a single channel at medium to low volumes but during higher flows may be multi channeled. Stream channel characteristics are grass/ moss covered near vertical bank slopes with heavy silt deposition in channel base.
Measured flow volumes in June were 0.374 cms compared with 0.074 cms in August 2008. There was no flow volume measured in October, 2008.

Total metals analysis results show all parameters tested meet *DWQ – Guideline MAC's*.

Concentrations of total zinc (0.053 mg/L) continue to exceed the *CCME – Aquatic Guideline* value of 0.03 mg/L.

Concentrations of total mercury were below the detection limit of 0.01 mg/L at all stations.

Summary

The June 2009 baseline survey was conducted during a decreasing flow stage in tributary streams following spring freshet / runoff.

All stations were access during the June 2009 survey.

Routine chemistry, total metals and dissolved metals analysis indicate tributary streams draining the RAU claims have moderate to low concentrations for parameters tested.

June 2009 analysis results are consistent with those of August and October 2008 with minor variations in levels of aluminum and iron most evident.

Data summaries for each station are contained in Appendix 3.

Access to stations was improved with time spent on establishing better helicopter landing sites at or near the break in channel slope.

A P P E N D I X 1

LABORATORY ANALYTICAL REPORTS

June 2009

Bodycote TESTING GROUP

Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates Box 20111 Whitehorse, YT, Canada Y1A 7A2	ID: Name: Location: LSD:	ATAC Resources RAU Claims
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**687157**
Approval Status:	Approved
Invoice Frequency:	by Lot
COD Status:	
Control Number:	A059366
Date Received:	Jun 11, 2009
Date Reported:	Jun 18, 2009
Report Number:	1227401

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20111 Whitehorse, Yukon Territory Y1A 7A2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: luditegibson@yahoo.ca	On [Lot Verification] send (COA) by Email - Multiple Reports On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report

Notes To Clients:

- Upon receipt, samples 1-8 had exceeded recommended holding time for Ammonia analysis.
- Some total metal results were less than dissolved metal results for lot 687157. The results were verified and are within expected measurement uncertainty.

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If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

Bodycote TESTING GROUP

Sample Custody

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**687157**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A059366
	Box 20111	Name:	RAU Claims	Date Received:	Jun 11, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Jun 18, 2009
	Y1A 7A2	LSD:		Report Number:	1227401
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Sample Disposal Date: July 18, 2009

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	$ 10.00
Storage for 6 to 20 samples per month	$ 15.00
Storage for 21 to 50 samples per month	$ 30.00
Storage for 51 to 200 samples per month	$ 60.00
Storage for more than 200 samples per month	$ 110.00

☐ Return Sample, collect, to the address below via:

- ☐ Greyhound
- ☐ Loomis
- ☐ Purolator
- ☐ Other (specify) _____

Name _____

Company _____

Address _____

_____

Phone _____

Fax _____

Signature _____

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**687157**
Control Number:	A059366
Date Received:	Jun 11, 2009
Date Reported:	Jun 18, 2009
Report Number:	1227401

Reference Number	687157-1	687157-2	687157-3
Sample Date	Jun 08, 2009	Jun 08, 2009	Jun 08, 2009
Sample Time	NA	NA	NA
Sample Location			
Sample Description	RAU 1	RAU 2	RAU 3
Matrix	Water	Water	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	2.0	3.8	3.1	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Ammonia - N		mg/L	<0.01	<0.01	<0.01	
Metals Dissolved						
Aluminum	Dissolved	mg/L	0.011	0.019	0.012	0.005
Antimony	Dissolved	mg/L	0.0009	0.0007	0.0006	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0004	0.0002
Barium	Dissolved	mg/L	0.076	0.031	0.063	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00007	<0.00001	0.00004	0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00003	0.00011	0.00010	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	<0.01	0.07	0.04	0.01
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.002	<0.001	0.001
Manganese	Dissolved	mg/L	0.0031	0.0154	0.0027	0.0001
Molybdenum	Dissolved	mg/L	0.00090	0.00033	0.00201	0.00002
Nickel	Dissolved	mg/L	0.001	<0.001	0.001	0.001
Selenium	Dissolved	mg/L	0.0012	<0.0006	0.0010	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.058	0.065	0.049	0.001
Sulfur	Dissolved	mg/L	7.0	6.6	5.4	0.1
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Dissolved	mg/L	0.0003	0.0006	0.0006	0.0001
Uranium	Dissolved	mg/L	0.0008	<0.0004	0.0015	0.0004
Vanadium	Dissolved	mg/L	0.00018	0.00011	0.00015	0.00004
Zinc	Dissolved	mg/L	0.009	0.002	0.003	0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001	0.0003	0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01	<0.01	0.01
Aluminum	Total	mg/L	0.126	0.053	0.195	0.005

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**687157**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A059366
	Box 20111	Name:	RAU Claims	Date Received:	Jun 11, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Jun 18, 2009
	Y1A 7A2	LSD:		Report Number:	1227401
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	687157-1	687157-2	687157-3
Sample Date	Jun 08, 2009	Jun 08, 2009	Jun 08, 2009
Sample Time	NA	NA	NA
Sample Location			
Sample Description	RAU 1	RAU 2	RAU 3
Matrix	Water	Water	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0004	0.0003	0.0007	0.0002
Barium	Total	mg/L	0.084	0.034	0.076	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00013	0.00060	0.00011	0.00001
Calcium	Total	mg/L	39.7	36.5	41.9	0.05
Chromium	Total	mg/L	0.0006	<0.0004	0.0008	0.0004
Cobalt	Total	mg/L	0.00011	0.00019	0.00021	0.00002
Copper	Total	mg/L	<0.001	0.002	0.002	0.001
Iron	Total	mg/L	0.17	0.16	0.39	0.01
Lead	Total	mg/L	0.0006	0.0002	0.0005	0.0001
Lithium	Total	mg/L	0.001	0.002	0.001	0.001
Magnesium	Total	mg/L	6.77	5.66	11.1	0.05
Manganese	Total	mg/L	0.0131	0.0342	0.0159	0.0001
Molybdenum	Total	mg/L	0.00093	0.00037	0.00216	0.00002
Nickel	Total	mg/L	0.001	0.001	0.002	0.001
Phosphorus	Total	mg/L	<0.01	<0.01	0.019	0.01
Potassium	Total	mg/L	0.3	0.2	0.8	0.1
Selenium	Total	mg/L	0.0014	<0.0006	0.0012	0.0006
Silicon	Total	mg/L	1.67	1.97	2.02	0.05
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium	Total	mg/L	1.33	1.34	1.16	0.02
Strontium	Total	mg/L	0.064	0.069	0.055	0.001
Sulfur	Total	mg/L	7.6	7.3	5.7	0.1
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L	0.0034	0.0012	0.0060	0.0001
Uranium	Total	mg/L	0.0008	<0.0004	0.0017	0.0004
Vanadium	Total	mg/L	0.00054	0.00019	0.00080	0.00004
Zinc	Total	mg/L	0.030	0.009	0.008	0.001
Zirconium	Total	mg/L	<0.0001	<0.0001	0.0001	0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	11	4	14	1

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**687157**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A059366
	Box 20111	Name:	RAU Claims	Date Received:	Jun 11, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Jun 18, 2009
	Y1A 7A2	LSD:		Report Number:	1227401
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

			Reference Number	687157-1	687157-2	687157-3	
			Sample Date	Jun 08, 2009	Jun 08, 2009	Jun 08, 2009	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	RAU 1	RAU 2	RAU 3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		148	158	172	5
Routine Water							
pH	@ 25 °C			8.07	8.02	8.19	
Electrical Conductivity		µS/cm at 25 C		223	209	265	1
Calcium	Dissolved	mg/L		34.9	33.4	38.2	0.05
Magnesium	Dissolved	mg/L		5.34	5.11	9.91	0.05
Phosphorus	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L		0.2	0.2	0.8	0.1
Silicon	Dissolved	mg/L		1.41	1.76	1.63	0.05
Sodium	Dissolved	mg/L		1.1	1.0	0.9	0.02
Bicarbonate		mg/L		100	100	150	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		89	83	123	5
Chloride	Dissolved	mg/L		0.1	0.1	0.09	0.02
Nitrate - N	Dissolved	mg/L		0.11	0.14	0.08	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		22.6	21.3	16.9	0.05
Hardness	as CaCO3	mg/L		109	104	136	5
Hardness	Total	mg CaCO3/L		127	114	150	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**687157**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A059366
	Box 20111	Name:	RAU Claims	Date Received:	Jun 11, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Jun 18, 2009
	Y1A 7A2	LSD:		Report Number:	1227401
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	687157-4	687157-5	687157-6	
		Sample Date	Jun 08, 2009	Jun 08, 2009	Jun 08, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU 4	RAU 5	RAU 6	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.0	2.2		0.5
Cyanide	Total	mg/L	0.001	0.001		0.001
Ammonia - N		mg/L	0.02	0.02	<0.01	
Metals Dissolved						
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0006	0.0012	0.0004	0.0002
Arsenic	Dissolved	mg/L	0.0021	0.0006	<0.0002	0.0002
Barium	Dissolved	mg/L	0.121	0.102	0.061	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00002	0.00024	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0004	0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00003	0.00015	0.00006	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	0.001	0.001
Iron	Dissolved	mg/L	<0.01	0.04	<0.01	0.01
Lead	Dissolved	mg/L	<0.0001	0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.002	<0.001	0.001
Manganese	Dissolved	mg/L	0.0013	0.0160	0.0001	0.0001
Molybdenum	Dissolved	mg/L	0.00126	0.00535	0.00149	0.00002
Nickel	Dissolved	mg/L	<0.001	0.007	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	0.0019	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.068	0.141	0.019	0.001
Sulfur	Dissolved	mg/L	8.2	8.9	1.9	0.1
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Dissolved	mg/L	0.0004	0.0004	0.0002	0.0001
Uranium	Dissolved	mg/L	0.0023	0.0084	0.0018	0.0004
Vanadium	Dissolved	mg/L	0.00017	0.00049	0.00010	0.00004
Zinc	Dissolved	mg/L	0.006	0.032	0.004	0.001
Zirconium	Dissolved	mg/L	<0.0001	0.0002	<0.0001	0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01		0.01
Aluminum	Total	mg/L	0.098	0.078	<0.005	0.005

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**687157**
Control Number:	A059366
Date Received:	Jun 11, 2009
Date Reported:	Jun 18, 2009
Report Number:	1227401

Reference Number	687157-4	687157-5	687157-6
Sample Date	Jun 08, 2009	Jun 08, 2009	Jun 08, 2009
Sample Time	NA	NA	NA
Sample Location			
Sample Description	RAU 4	RAU 5	RAU 6
Matrix	Water	Water	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	<0.0002	0.0006	<0.0002	0.0002
Arsenic	Total	mg/L	0.0024	0.0008	<0.0002	0.0002
Barium	Total	mg/L	0.134	0.112	0.065	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	0.0002	<0.0001	<0.0001	0.0001
Boron	Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00003	0.00044	<0.00001	0.00001
Calcium	Total	mg/L	56.1	69.5	34.7	0.05
Chromium	Total	mg/L	<0.0004	0.0006	0.0004	0.0004
Cobalt	Total	mg/L	0.00010	0.00020	<0.00002	0.00002
Copper	Total	mg/L	0.001	0.001	<0.001	0.001
Iron	Total	mg/L	0.13	0.31	0.01	0.01
Lead	Total	mg/L	0.0002	0.0004	0.0003	0.0001
Lithium	Total	mg/L	0.001	0.002	<0.001	0.001
Magnesium	Total	mg/L	19.5	27.2	13.3	0.05
Manganese	Total	mg/L	0.0042	0.0272	0.0001	0.0001
Molybdenum	Total	mg/L	0.00139	0.00583	0.00158	0.00002
Nickel	Total	mg/L	<0.001	0.009	<0.001	0.001
Phosphorus	Total	mg/L	<0.01	0.010	<0.01	0.01
Potassium	Total	mg/L	0.8	1	0.1	0.1
Selenium	Total	mg/L	<0.0006	0.0024	<0.0006	0.0006
Silicon	Total	mg/L	2.17	2.65	1.07	0.05
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium	Total	mg/L	1.16	1.36	0.92	0.02
Strontium	Total	mg/L	0.074	0.151	0.020	0.001
Sulfur	Total	mg/L	9.3	9.7	2.0	0.1
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	0.00002	<0.00001	0.00001
Thorium	Total	mg/L	0.0006	<0.0001	<0.0001	0.0001
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L	0.0033	0.0029	0.0003	0.0001
Uranium	Total	mg/L	0.0024	0.0089	0.0020	0.0004
Vanadium	Total	mg/L	0.00038	0.00092	0.00008	0.00004
Zinc	Total	mg/L	0.012	0.049	0.007	0.001
Zirconium	Total	mg/L	0.0011	0.0004	0.0001	0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	6	10	<2	1

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**687157**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A059366
	Box 20111	Name:	RAU Claims	Date Received:	Jun 11, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Jun 18, 2009
	Y1A 7A2	LSD:		Report Number:	1227401
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

			Reference Number	687157-4	687157-5	687157-6	
			Sample Date	Jun 08, 2009	Jun 08, 2009	Jun 08, 2009	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	RAU 4	RAU 5	RAU 6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		230	300	158	5
Routine Water							
pH	@ 25 °C			8.34	8.12	8.24	
Electrical Conductivity		µS/cm at 25 C		371	473	254	1
Calcium	Dissolved	mg/L		51.1	63.4	32.6	0.05
Magnesium	Dissolved	mg/L		17.5	24.8	12.3	0.05
Phosphorus	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L		0.8	0.9	<0.1	0.1
Silicon	Dissolved	mg/L		1.86	2.33	0.98	0.05
Sodium	Dissolved	mg/L		0.9	1.2	0.7	0.02
Bicarbonate		mg/L		210	280	160	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		175	229	129	5
Chloride	Dissolved	mg/L		0.13	0.09	0.09	0.02
Nitrate - N	Dissolved	mg/L		0.26	0.15	0.17	0.01
Nitrite - N	Dissolved	mg/L		0.05	0.14	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		26.8	28.7	5.40	0.05
Hardness	as CaCO3	mg/L		200	260	132	5
Hardness	Total	mg CaCO3/L		220	286	141	1

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**687157**
Control Number:	A059366
Date Received:	Jun 11, 2009
Date Reported:	Jun 18, 2009
Report Number:	1227401

Reference Number	687157-7	687157-8	
Sample Date	Jun 08, 2009	Jun 08, 2009	
Sample Time	NA	NA	
Sample Location			
Sample Description	RAU7	RAU 8	
Matrix	Water	Water	

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	0.6	0.7		0.5
Cyanide	Total	mg/L	<0.001	0.001		0.001
Ammonia - N		mg/L	0.02	0.02		
Metals Dissolved						
Aluminum	Dissolved	mg/L	0.007	<0.005		0.005
Antimony	Dissolved	mg/L	0.0005	0.0009		0.0002
Arsenic	Dissolved	mg/L	0.0002	0.0002		0.0002
Barium	Dissolved	mg/L	0.133	0.146		0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Boron	Dissolved	mg/L	<0.004	<0.004		0.004
Cadmium	Dissolved	mg/L	0.00002	0.00010		0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Cobalt	Dissolved	mg/L	<0.00002	0.00002		0.00002
Copper	Dissolved	mg/L	<0.001	<0.001		0.001
Iron	Dissolved	mg/L	<0.01	<0.01		0.01
Lead	Dissolved	mg/L	0.0002	<0.0001		0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001		0.001
Manganese	Dissolved	mg/L	0.0005	0.0017		0.0001
Molybdenum	Dissolved	mg/L	0.00014	0.00044		0.00002
Nickel	Dissolved	mg/L	<0.001	0.001		0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Strontium	Dissolved	mg/L	0.031	0.036		0.001
Sulfur	Dissolved	mg/L	7.3	4.8		0.1
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Titanium	Dissolved	mg/L	0.0002	0.0002		0.0001
Uranium	Dissolved	mg/L	0.0010	0.0020		0.0004
Vanadium	Dissolved	mg/L	0.00021	0.00011		0.00004
Zinc	Dissolved	mg/L	0.004	0.026		0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01		0.01
Aluminum	Total	mg/L	0.038	0.089		0.005

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**687157**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A059366
	Box 20111	Name:	RAU Claims	Date Received:	Jun 11, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Jun 18, 2009
	Y1A 7A2	LSD:		Report Number:	1227401
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	687157-7	687157-8		
		Sample Date	Jun 08, 2009	Jun 08, 2009		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	RAU7	RAU 8		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	<0.0002	<0.0002		0.0002
Arsenic	Total	mg/L	0.0003	0.0004		0.0002
Barium	Total	mg/L	0.144	0.160		0.001
Beryllium	Total	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Total	mg/L	<0.0001	<0.0001		0.0001
Boron	Total	mg/L	<0.005	<0.005		0.004
Cadmium	Total	mg/L	0.00004	0.00018		0.00001
Calcium	Total	mg/L	39.7	38.7		0.05
Chromium	Total	mg/L	0.0004	0.0005		0.0004
Cobalt	Total	mg/L	0.00006	0.00013		0.00002
Copper	Total	mg/L	<0.001	<0.001		0.001
Iron	Total	mg/L	0.07	0.16		0.01
Lead	Total	mg/L	0.0015	0.0009		0.0001
Lithium	Total	mg/L	<0.001	<0.001		0.001
Magnesium	Total	mg/L	20.7	13.6		0.05
Manganese	Total	mg/L	0.0100	0.0120		0.0001
Molybdenum	Total	mg/L	0.00014	0.00060		0.00002
Nickel	Total	mg/L	<0.001	0.002		0.001
Phosphorus	Total	mg/L	<0.01	<0.01		0.01
Potassium	Total	mg/L	0.1	0.2		0.1
Selenium	Total	mg/L	<0.0006	<0.0006		0.0006
Silicon	Total	mg/L	1.57	1.22		0.05
Silver	Total	mg/L	<0.00001	<0.00001		0.00001
Sodium	Total	mg/L	0.96	0.89		0.02
Strontium	Total	mg/L	0.035	0.040		0.001
Sulfur	Total	mg/L	8.1	5.2		0.1
Tellurium	Total	mg/L	<0.0001	<0.0001		0.0001
Thallium	Total	mg/L	<0.00001	<0.00001		0.00001
Thorium	Total	mg/L	<0.0001	<0.0001		0.0001
Tin	Total	mg/L	<0.0001	<0.0001		0.0001
Titanium	Total	mg/L	0.0018	0.0026		0.0001
Uranium	Total	mg/L	0.0011	0.0021		0.0004
Vanadium	Total	mg/L	0.00035	0.00036		0.00004
Zinc	Total	mg/L	0.008	0.053		0.001
Zirconium	Total	mg/L	<0.0001	<0.0001		0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	8	8		1

Bodycote TESTING GROUP

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**687157**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A059366
	Box 20111	Name:	RAU Claims	Date Received:	Jun 11, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Jun 18, 2009
	Y1A 7A2	LSD:		Report Number:	1227401
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	687157-7	687157-8	
Sample Date	Jun 08, 2009	Jun 08, 2009	
Sample Time	NA	NA	
Sample Location			
Sample Description	RAU7	RAU 8	
Matrix	Water	Water	

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Physical and Aggregate Properties - Continued						
Solids	Total Dissolved	mg/L	176	166		5
Routine Water						
pH	@ 25 °C		8.32	8.15		
Electrical Conductivity		µS/cm at 25 C	317	274		1
Calcium	Dissolved	mg/L	36.6	35.7		0.05
Magnesium	Dissolved	mg/L	18.9	12.5		0.05
Phosphorus	Dissolved	mg/L	<0.01	<0.01		0.01
Potassium	Dissolved	mg/L	0.1	0.2		0.1
Silicon	Dissolved	mg/L	1.42	1.03		0.05
Sodium	Dissolved	mg/L	0.7	0.9		0.02
Bicarbonate		mg/L	180	160		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	145	128		5
Chloride	Dissolved	mg/L	0.36	0.10		0.02
Nitrate - N	Dissolved	mg/L	0.19	0.14		0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01		0.01
Sulfate (SO4)	Dissolved	mg/L	24.3	15.4		0.05
Hardness	as CaCO3	mg/L	169	141		5
Hardness	Total	mg CaCO3/L	184	153		1

Approved by:

Carol Nam, Dipl. T.
Quality Officer

Bodycote TESTING GROUP

Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**687157**
Control Number:	A059366
Date Received:	Jun 11, 2009
Date Reported:	Jun 18, 2009
Report Number:	1227401

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water	APHA	*	Conductivity, 2510	12-Jun-09	BTG Surrey
Alk, pH, EC, Turb in water	APHA	*	Electrometric Method, 4500-H+ B	12-Jun-09	BTG Surrey
Alk, pH, EC, Turb in water	APHA	*	Titration Method, 2320 B	12-Jun-09	BTG Surrey
Ammonia-N in Water	APHA	*	Titrametric, 4500-NH3 C	12-Jun-09	BTG Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	15-Jun-09	BTG Surrey
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	15-Jun-09	BTG Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	17-Jun-09	BTG Edmonton
Mercury Low Level (Total) in water	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	17-Jun-09	BTG Surrey
Metals SemiTrace (Dissolved) in water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	15-Jun-09	BTG Surrey
Metals SemiTrace (Total) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	15-Jun-09	BTG Surrey
Solids Dissolved (Total, Fixed and Volatile)2	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	15-Jun-09	BTG Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	15-Jun-09	BTG Surrey
Trace Metals (dissolved) in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	15-Jun-09	BTG Surrey
Trace Metals (dissolved) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	15-Jun-09	BTG Surrey
Trace Metals (Total) in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	15-Jun-09	BTG Surrey
Trace Metals (Total) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	15-Jun-09	BTG Surrey

** Bodycote method(s) based on reference method*

References

APHA	Standard Methods for the Examination of Water and Wastewater
EPA	Environmental Protection Agency Test Methods - US
US EPA	US Environmental Protection Agency Test Methods

Comments:

- Upon receipt, samples 1-8 had exceeded recommended holding time for Ammonia analysis.
- Some total metal results were less than dissolved metal results for lot 687157. The results were verified and are within expected measurement uncertainty.

Bodycote TESTING GROUP

Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**687157**
Control Number:	A059366
Date Received:	Jun 11, 2009
Date Reported:	Jun 18, 2009
Report Number:	1227401

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

A P P E N D I X 2

Flow Volume Calculations

June 2009

Stage Discharge Calculations

Project: **ATAC Resources** **Date:** **Jun9/09**

Site: **Rau #8**

Point	Depth *(meters)*	Width *(meters)*	Velocity *(m/sec)*	Area *(m sq)*	Volume *(cms)*
1.42	0	0.065	0	0	0
1.55	0.26	0.165	0.882	0.043	0.038
1.75	0.3	0.2	0.769	0.060	0.046
1.95	0.26	0.325	0.72	0.085	0.061
2.4	0.27	0.15	0.705	0.041	0.029
2.25	0.28	0	0.72	0.000	0.000
2.4	0.28	0.125	0.676	0.035	0.024
2.5	0.28	0.1	0.66	0.028	0.018
2.6	0.32	0.1	0.66	0.032	0.021
2.7	0.33	0.1	0.676	0.033	0.022
2.8	0.32	0.1	0.629	0.032	0.020
2.9	0.38	0.1	0.601	0.038	0.023
3	0.37	0.1	0.576	0.037	0.021
3.1	0.38	0.1	0.521	0.038	0.020
3.2	0.38	0.1	0.462	0.038	0.018
3.3	0.32	0.1	0.419	0.032	0.013
3.4	0	0.05	0	0.000	0.000
1.98		**1.98**			**0.3740**

SG @ Start no SG
SG @ End

Data logger reading: no logger Time:

Channel under ice? no

Method: Price Velocity meter

Crew: J.Gibson

APPENDIX 3

Station Data Summaries (2008 and 2009)

Table. Appendix Summary of Station RAU #1 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Detection Limit
Total Metals					
Aluminum	mg/L	0.318	0.359	0.126	0.005
Antimony	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	mg/L	0.0005	0.0008	0.0004	0.0002
Barium	mg/L	0.102	0.088	0.084	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	0.0001
Boron	mg/L	0.002	<0.002	<0.005	0.004
Cadmium	mg/L	0.00014	0.00017	0.00013	0.00001
Calcium	mg/L	51	44.5	39.7	0.05
Chromium	mg/L	0.0009	0.0012	0.0006	0.0004
Cobalt	mg/L	0.0003	0.0002	0.00011	0.00002
Copper	mg/L	0.002	0.002	<0.001	0.001
Iron	mg/L	0.42	0.48	0.17	0.01
Lead	mg/L	0.0006	0.0006	0.0006	0.0001
Lithium	mg/L	0.002	0.002	0.001	0.001
Magnesium	mg/L	8.3	7.3	6.77	0.05
Manganese	mg/L	0.024	0.021	0.0131	0.0001
Molybdenum	mg/L	0.001	0.001	0.00093	0.00002
Nickel	mg/L	0.0018	0.0022	0.001	0.001
Potassium	mg/L	<0.4	0.4	0.3	0.1
Sulfur	mg/L	10.2	9.3	7.6	0.1
Selenium	mg/L	0.0024	0.0023	0.0014	0.0006
Strontium	mg/L	0.093	0.089	0.064	0.001
Silver	mg/L	<0.00001	0.00003	<0.00001	0.00001
Silicon	mg/L	2.47	2.5	1.67	0.05
Sodium	mg/L	0.8	0.8	1.33	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	0.0001
Titanium	mg/L	0.0096	0.01	0.0034	0.0001
Uranium	mg/L	0.0013	0.0012	0.0008	0.0004
Vanadium	mg/L	0.0013	0.0016	0.00054	0.00004
Zinc	mg/L	0.014	0.015	0.03	0.001
Mercury	mg/L			<0.01	0.01

Table. Appendix Summary of Station RAU #2 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Detection Limit
Total Metals					
Aluminum	mg/L	0.184	0.098	0.053	0.005
Antimony	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	mg/L	0.0003	0.0004	0.0003	0.0002
Barium	mg/L	0.042	0.041	0.034	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	0.0001
Boron	mg/L	0.003	<0.002	<0.005	0.004
Cadmium	mg/L	0.00002	0.00003	0.0006	0.00001
Calcium	mg/L	41.1	36.9	36.5	0.05
Chromium	mg/L	0.0006	<0.0005	<0.0004	0.0004
Cobalt	mg/L	0.0005	0.0004	0.00019	0.00002
Copper	mg/L	0.002	0.006	0.002	0.001
Iron	mg/L	0.34	0.27	0.16	0.01
Lead	mg/L	0.0001	0.0002	0.0002	0.0001
Lithium	mg/L	0.003	0.003	0.002	0.001
Magnesium	mg/L	8.8	8.6	5.66	0.05
Manganese	mg/L	0.068	0.077	0.0342	0.0001
Molybdenum	mg/L	<0.001	<0.001	0.00037	0.00002
Nickel	mg/L	0.0021	0.0018	0.001	0.001
Potassium	mg/L	<0.4	<0.4	0.2	0.1
Sulfur	mg/L	10.6	10.2	7.3	0.1
Selenium	mg/L	0.0008	0.0006	<0.0006	0.0006
Strontium	mg/L	0.087	0.08	0.069	0.001
Silver	mg/L	<0.00001	0.00002	<0.00001	0.00001
Silicon	mg/L	2.52	2.33	1.97	0.05
Sodium	mg/L	0.9	0.8	1.34	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	0.0001
Titanium	mg/L	0.0041	0.0026	0.0012	0.0001
Uranium	mg/L	<0.0005	<0.0005	<0.0004	0.0004
Vanadium	mg/L	0.0005	0.0004	0.00019	0.00004
Zinc	mg/L	0.006	0.011	0.009	0.001
Mercury	mg/L			<0.01	0.01

Table. Appendix Summary of Station RAU#3 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Detection Limit
Total Metals					
Aluminum	mg/L	0.754	0.95	0.195	0.005
Antimony	mg/L	0.0002	0.0003	<0.0002	0.0002
Arsenic	mg/L	0.0019	0.0036	0.0007	0.0002
Barium	mg/L	0.131	0.112	0.076	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	0.0001
Boron	mg/L	0.007	0.006	<0.005	0.004
Cadmium	mg/L	0.00023	0.00028	0.00011	0.00001
Calcium	mg/L	58.2	56.1	41.9	0.05
Chromium	mg/L	0.0021	0.0025	0.0008	0.0004
Cobalt	mg/L	0.0007	0.0007	0.00021	0.00002
Copper	mg/L	0.003	0.004	0.002	0.001
Iron	mg/L	1.29	1.45	0.39	0.01
Lead	mg/L	0.001	0.001	0.0005	0.0001
Lithium	mg/L	0.002	0.003	0.001	0.001
Magnesium	mg/L	15.9	15.2	11.1	0.05
Manganese	mg/L	0.04	0.042	0.0159	0.0001
Molybdenum	mg/L	0.002	0.003	0.00216	0.00002
Nickel	mg/L	0.0042	0.0097	0.002	0.001
Potassium	mg/L	1.2	1.4	0.8	0.1
Sulfur	mg/L	9.2	12.1	5.7	0.1
Selenium	mg/L	0.001	0.0016	0.0012	0.0006
Strontium	mg/L	0.086	0.103	0.055	0.001
Silver	mg/L	0.00002	0.00003	<0.00001	0.00001
Silicon	mg/L	2.92	3.68	2.02	0.05
Sodium	mg/L	0.7	1.1	1.16	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	0.0001
Titanium	mg/L	0.023	0.0357	0.006	0.0001
Uranium	mg/L	0.0026	0.0031	0.0017	0.0004
Vanadium	mg/L	0.0031	0.0044	0.0008	0.00004
Zinc	mg/L	0.018	0.044	0.008	0.001
Mercury	mg/L			<0.01	0.01

Table. Appendix Summary of Station RAU#4 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Detection Limit
Dissolved Metals					
Aluminum	mg/L	0.007	No	<0.005	0.005
Antimony	mg/L	0.0007	Sample	0.0006	0.0002
Arsenic	mg/L	0.0023		0.0021	0.0002
Barium	mg/L	0.122		0.121	0.001
Beryllium	mg/L	<0.0001		<0.00004	0.00004
Bismuth	mg/L	<0.0005		<0.0001	0.0001
Boron	mg/L	0.002		<0.004	0.004
Cadmium	mg/L	0.00003		0.00002	0.00001
Calcium	mg/L	54		51.1	0.05
Chromium	mg/L	<0.0005		<0.0004	0.0004
Cobalt	mg/L	<0.0001		0.00003	0.00002
Copper	mg/L	<0.001		<0.001	0.001
Iron	mg/L	<0.01		<0.01	0.01
Lead	mg/L	<0.0001		<0.0001	0.0001
Lithium	mg/L	0.001		<0.001	0.001
Magnesium	mg/L	19		17.5	0.05
Manganese	mg/L	<0.005		0.0013	0.005
Molybdenum	mg/L	0.001		0.00126	0.00002
Nickel	mg/L	<0.0005		<0.001	0.001
Potassium	mg/L	0.7		0.8	0.1
Sulfur	mg/L	9.4		8.2	0.1
Selenium	mg/L	0.0004		<0.0006	0.0006
Strontium	mg/L	0.082		0.068	0.001
Silver	mg/L	<0.00001		<0.00001	0.00001
Silicon	mg/L	2.36		1.86	0.05
Sodium	mg/L	<0.4		0.9	0.02
Thallium	mg/L	<0.00005		<0.00001	0.00001
Tin	mg/L	<0.001		<0.0001	0.0001
Titanium	mg/L	0.0011		0.0004	0.0001
Uranium	mg/L	0.0028		0.0023	0.0005
Vanadium	mg/L	0.0006		0.00017	0.00004
Zinc	mg/L	0.008		0.006	0.001

Table. Appendix Summary of Station RAU#5 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Detection Limit
Dissolved Metals					
Aluminum	mg/L	0.006	0.005	<0.005	0.005
Antimony	mg/L	0.0018	0.0013	0.0012	0.0002
Arsenic	mg/L	0.0005	0.0004	0.0006	0.0002
Barium	mg/L	0.114	0.115	0.102	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	0.0001
Boron	mg/L	0.002	<0.002	<0.004	0.004
Cadmium	mg/L	0.00049	0.00028	0.00024	0.00001
Calcium	mg/L	77.6	68.5	63.4	0.05
Chromium	mg/L	<0.0005	<0.0005	<0.0001	0.0004
Cobalt	mg/L	0.0001	<0.0001	0.00015	0.00002
Copper	mg/L	<0.001	<0.001	<0.001	0.001
Iron	mg/L	0.11	0.03	0.04	0.01
Lead	mg/L	<0.0001	<0.0001	0.0001	0.0001
Lithium	mg/L	0.003	0.002	0.002	0.001
Magnesium	mg/L	28	26.7	24.8	0.05
Manganese	mg/L	0.011	<0.005	0.016	0.005
Molybdenum	mg/L	0.007	0.007	0.00535	0.00002
Nickel	mg/L	0.0096	0.0078	0.007	0.001
Potassium	mg/L	1	0.8	0.9	0.1
Sulfur	mg/L	12.9	10.3	8.9	0.1
Selenium	mg/L	0.0031	0.0038	0.0019	0.0006
Strontium	mg/L	0.198	0.168	0.141	0.001
Silver	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Silicon	mg/L	2.96	2.82	2.33	0.05
Sodium	mg/L	0.7	0.5	1.2	0.02
Thallium	mg/L	<0.00005	<0.00005	0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	0.0001
Titanium	mg/L	0.0014	0.0005	0.0004	0.0001
Uranium	mg/L	0.0121	0.0103	0.0084	0.0005
Vanadium	mg/L	0.0008	0.0012	0.00049	0.00004
Zinc	mg/L	0.07	0.051	0.032	0.001

Table. Appendix Summary of Station RAU#6 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Detection Limit
Total Metals					
Aluminum	mg/L	<0.005	No	<0.005	0.005
Antimony	mg/L	<0.0002	Sample	<0.0002	0.0002
Arsenic	mg/L	<0.0002		<0.0002	0.0002
Barium	mg/L	0.084		0.065	0.001
Beryllium	mg/L	<0.0001		<0.00004	0.00004
Bismuth	mg/L	<0.0005		<0.0001	0.0001
Boron	mg/L	0.004		<0.005	0.004
Cadmium	mg/L	<0.00001		<0.00001	0.00001
Calcium	mg/L	37.5		34.7	0.05
Chromium	mg/L	<0.0005		0.0004	0.0004
Cobalt	mg/L	0.0002		<0.00002	0.00002
Copper	mg/L	<0.001		<0.001	0.001
Iron	mg/L	<0.05		0.01	0.01
Lead	mg/L	<0.0001		0.0003	0.0001
Lithium	mg/L	<0.001		<0.001	0.001
Magnesium	mg/L	14.4		13.3	0.05
Manganese	mg/L	<0.005		0.0001	0.0001
Molybdenum	mg/L	0.002		0.00158	0.00002
Nickel	mg/L	<0.0005		<0.001	0.001
Potassium	mg/L	<0.4		0.1	0.1
Sulfur	mg/L	2.2		2	0.1
Selenium	mg/L	0.0006		<0.0006	0.0006
Strontium	mg/L	0.025		0.02	0.001
Silver	mg/L	<0.00001		<0.00001	0.00001
Silicon	mg/L	1.17		1.07	0.05
Sodium	mg/L	<0.4		0.92	0.02
Thallium	mg/L	<0.00005		<0.00001	0.00001
Tin	mg/L	<0.001		<0.0001	0.0001
Titanium	mg/L	<0.0005		0.0003	0.0001
Uranium	mg/L	0.0024		0.002	0.0004
Vanadium	mg/L	<0.0001		0.00008	0.00004
Zinc	mg/L	0.004		0.007	0.001
Mercury	mg/L				0.01

Table. Appendix Summary of Station RAU#7 Analysis Data.

Parameter	Unit	Aug-08	Oct-08	Jun-09	Detection Limit
Dissolved Metals					
Aluminum	mg/L	<0.005	<0.005	0.007	0.005
Antimony	mg/L	0.0006	0.0007	0.0005	0.0002
Arsenic	mg/L	0.0003	0.0003	0.0002	0.0002
Barium	mg/L	0.155	0.174	0.133	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	0.0001
Boron	mg/L	<0.002	<0.002	<0.004	0.004
Cadmium	mg/L	0.00003	0.00002	0.00002	0.00001
Calcium	mg/L	40.9	42.2	36.6	0.05
Chromium	mg/L	<0.0005	<0.0005	<0.0004	0.0004
Cobalt	mg/L	<0.0001	<0.0001	<0.00002	0.00002
Copper	mg/L	<0.001	<0.001	<0.001	0.001
Iron	mg/L	<0.01	<0.01	<0.01	0.01
Lead	mg/L	<0.0001	<0.0001	0.0002	0.0001
Lithium	mg/L	<0.001	<0.001	<0.001	0.001
Magnesium	mg/L	20.9	22.2	18.9	0.05
Manganese	mg/L	<0.005	<0.005	0.0005	0.005
Molybdenum	mg/L	<0.001	<0.001	0.00014	0.00002
Nickel	mg/L	<0.0005	<0.0005	<0.001	0.001
Potassium	mg/L	<0.4	<0.4	0.1	0.1
Sulfur	mg/L	9.7	10.5	7.3	0.1
Selenium	mg/L	<0.0002	0.0004	<0.0006	0.0006
Strontium	mg/L	0.042	0.042	0.031	0.001
Silver	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Silicon	mg/L	1.87	1.93	1.42	0.05
Sodium	mg/L	<0.4	0.6	0.7	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	0.0001
Titanium	mg/L	0.001	<0.0005	0.0002	0.0001
Uranium	mg/L	0.0013	0.0014	0.001	0.0005
Vanadium	mg/L	0.0007	0.0007	0.00021	0.00004
Zinc	mg/L	0.006	0.006	0.004	0.001

Table. Appendix Summary of Station RAU#8 Analysis Data.

Parameter	Unit	Aug-08	Oct-08	Jun-09	Detection Limit
Total Metals					
Aluminum	mg/L	0.033	0.126	0.089	0.005
Antimony	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	mg/L	0.0003	0.0004	0.0004	0.0002
Barium	mg/L	0.171	0.157	0.16	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	0.0001
Boron	mg/L	<0.002	<0.002	<0.005	0.004
Cadmium	mg/L	0.00014	0.00017	0.00018	0.00001
Calcium	mg/L	45.3	43.8	38.7	0.05
Chromium	mg/L	<0.0005	0.0005	0.0005	0.0004
Cobalt	mg/L	<0.0001	0.0001	0.00013	0.00002
Copper	mg/L	<0.001	<0.001	<0.001	0.001
Iron	mg/L	<0.05	0.2	0.16	0.01
Lead	mg/L	0.0002	0.001	0.0009	0.0001
Lithium	mg/L	<0.001	0.001	<0.001	0.001
Magnesium	mg/L	16.8	16.8	13.6	0.05
Manganese	mg/L	<0.005	0.053	0.012	0.0001
Molybdenum	mg/L	<0.001	<0.001	0.0006	0.00002
Nickel	mg/L	0.0014	0.0023	0.002	0.001
Potassium	mg/L	<0.4	<0.4	0.2	0.1
Sulfur	mg/L	8.1	7.3	5.2	0.1
Selenium	mg/L	0.0008	0.0009	<0.0006	0.0006
Strontium	mg/L	0.055	0.054	0.04	0.001
Silver	mg/L	<0.00001	0.00001	<0.00001	0.00001
Silicon	mg/L	1.36	1.53	1.22	0.05
Sodium	mg/L	<0.4	<0.4	0.89	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	0.0001
Titanium	mg/L	0.0019	0.004	0.0026	0.0001
Uranium	mg/L	0.003	0.0028	0.0021	0.0004
Vanadium	mg/L	0.0002	0.0006	0.00036	0.00004
Zinc	mg/L	0.038	0.05	0.053	0.001
Mercury	mg/L			<0.01	0.01

Table 1. ATAC Resources - RAU Claims, June 2009.

Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS RAU #1	RAU #2	RAU #3	RAU #4	RAU #5	RAU #6	RAU #7	RAU #8	Detection Limit	DWQ* Guidelines	Aquatic** Guidelines
pH (field)	ru	7.91	7.93	8.17	8.19	7.85	8.14	8.34	7.84			
pH (lab)	ru	8.07	8.02	8.19	8.34	8.12	8.24	8.32	8.15		6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	223	209	265	371	473	254	317	274	1		
Water temperature	C	1.5	2.5	2.5	6	2	1.5	4	6			
Flow Volume(field)	cms	0.747	0.287	0.461	0.066	0.023	0.01 E	0.039	0.374			
Ammonia -N	mg/L	<0.01	<0.01	<0.01	0.02	0.02	<0.01	0.02	0.02	0.005		1.37-2.2
Phosphorus - Total	mg/L	<0.01	<0.01	0.019	<0.01	0.01	<0.01	<0.01	<0.01	0.01		
Chloride	mg/L	0.1	0.1	0.09	0.13	0.09	0.09	0.36	0.1	0.02	<250	
Nitrate - N	mg/L	0.11	0.14	0.08	0.26	0.15	0.17	0.19	0.14	0.01	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	0.05	0.14	<0.01	<0.01	<0.01	0.01	1	0.06
Sulphate (S04)	mg/L	22.6	21.3	16.9	26.8	28.7	5.4	24.3	15.4	0.05		
T.Suspended Solids	mg/L	11	4	14	6	10	<2	8	8	1		
T.Dissolved Solids	mg/L	148	158	172	230	300	158	176	166	5	500	
Hardness (as CaC03)	mg/L	141	114	150	220	286	141	184	153		<500	
Alkalinity (as CaC03)	mg/L	89	83	123	175	229	129	145	128	5		
Organic Carbon-Total	mg/L	2	3.8	3.1	1	2.2	n/s	0.6	0.7	0.05		
Cyanide - Total	mg/L	0.001	0.001	0.001	0.001	0.001	n/s	<0.001	0.001	0.001	0.2	0.005

All results and limits in mg/L unless noted otherwise

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Bodycote TESTING GROUP

687157

Control Number A059366

Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Bodycote location and proper sampling protocol

Billing Address:		**Copy of Report To:**	**Copy of Invoice:** ☐
Company:	J. Gibson & Associates	Company:	Mail Invoice to this address for approval ☐
Address:	Box 20111 Whitehorse, YT Y1A 7A2	Address:	
	QA/QC Report ☐		
	Report Results:		**Report Results:**
Attention:	John Gibson	Attention:	
Phone:	(867)633-4522	Phone:	
Fax:	(867)668-6895	Fax:	
Cell:		Cell:	
e-mail:		e-mail:	
	Fax ☒		Fax ☐
	Mail ☒		Mail ☐
	Courier ☐		Courier ☐
	e-mail ☐		e-mail ☐
	e-Service ☐		e-Service ☐

Information to be included on Report and Invoice

Project ID: ATAC RESOURCES.
Project Name: RAU CLAIMS
Project Location:
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID: 6646

Rush Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH required on: All analysis ☐ or As indicated ☐

Date Required: _____
Signature: _____
Bodycote Authorization: _____

Sample Custody (Please Print)
Sampled by: J GIBSON
Company Signature JG

I authorize Bodycote to proceed with the work indicated on this form:
Date: June 9/09 Initial: JG

Received by: DM Sample Temp. 10 °C
Waybill # Date: 06/11/09
Company CITY COURIER Time

Special Instructions / Comments
R CHEM = pH, EC, HARDT, ALKT, SO4, NH4
N_2, N_3, TSS, TDS, CL, TP.

FOR LAB USE ONLY
Condition of containers / coolers upon arrival at lab

☐ Check here if Bodycote is required to report results directly to a regulatory body (Please include contact information)

☐ Check here if you're testing POTABLE WATER for **HUMAN CONSUMPTION.**

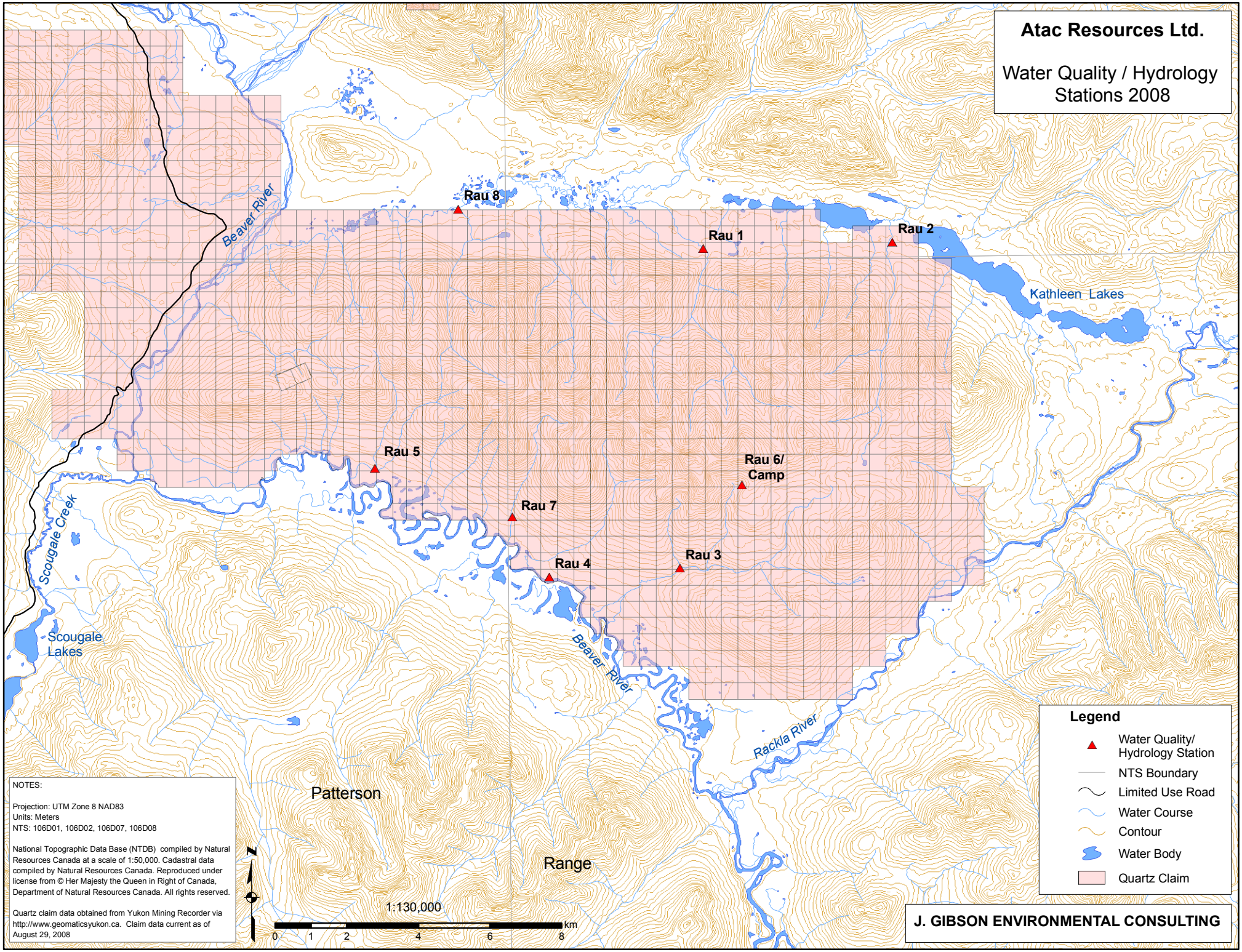
Please indicate which regulations you are required to meet: _____

	Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	R CHEM	TW21	TW22	Hg.	CNI	TOC
							↓	Enter tests above (✓ relevant samples below)					
1	RAU #1	SURFACE	-	Jun 8	H_2O	Grab	6	✓	✓	✓	✓	✓	✓
2	RAU #2	"	-	↓	↓	↓	6	✓	✓	✓	✓	✓	✓
3	RAU #3	"	-				6	✓	✓	✓	✓	✓	✓
4	RAU #4	"	-				6	✓	✓	✓	✓	✓	✓
5	RAU #5	"	-				6	✓	✓	✓	✓	✓	✓
6	RAU #6	CAMP SUPPLY	-				3	✓	✓	✓			
7	RAU #7	SURFACE	-				6	✓	✓	✓	✓	✓	✓
8	RAU #8	"	-				6	✓	✓	✓	✓	✓	✓
9			-										
10			-										
11			-										
12	METALS + NITRIC, DISS ARE FIELD FILTERED.												
13	Hg + NITRIC		-										
14	CNI + NaOH		-										
15	TOC NOT PRESERVED.		-										

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

Form No. 0006 (Rev. 04/07)


Atac Resources Ltd.
Water Quality / Hydrology Stations 2008
Rau 8
Rau 1
Rau 2
Rau 5
Rau 6/ Camp
Rau 7
Rau 4
Rau 3
Beaver River
Kathleen Lakes
Scougale Creek
Scougale Lakes
Beaver River
Rackla River
Patterson
Range
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 106D01, 106D02, 106D07, 106D08
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of August 29, 2008
N
1:130,000
0 1 2 4 6 8 km
Legend
Water Quality/ Hydrology Station
NTS Boundary
Limited Use Road
Water Course
Contour
Water Body
Quartz Claim
J. GIBSON ENVIRONMENTAL CONSULTING

ATAC RESOURCES LTD

RAU CLAIMS

Baseline Water Quality Survey

July 2009

J.Gibson Env. Consulting ***Whitehorse, Yukon***

Atac Resources Ltd requested a baseline water quality / hydrology surveys be conducted on the surface water tributaries draining the area of the RAU Claims north of Keno City, Yukon.

The RAU Claims are located near the confluence of the Beaver River and the Rackla River. Streams draining south of the claims are tributaries to the Beaver River with streams draining north and west of the claims being tributaries to the Rackla River. Immediately north of the claims are the Kathleen Lakes as part of the Rackla River drainage.
The confluence of the Beaver and Rackla Rivers is located to the south of the claims.

An active big game outfitter's camp is located on the Kathleen Lake system.

Water quality / hydrology survey done in July 2009 is the fourth survey, following surveys in August and October, 2008 and June 2009.

Exploration activity on the RAU Claims in July 2009 consists of a 15 person exploration camp with two diamond drills in operation.

The exploration camp and all survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals with field measurements for pH, water temperature and flow volumes.

June and July 2009 surveys include the addition of Total Cyanide, Total Mercury and Total Organic Carbon at all stations with exception of RAU #6 (drinking water supply).

Sample Locations

Nine water quality sample sites were active in July, 2009 on tributary streams draining the RAU Claims (see attached locations map).

Station RAU #9 was established July, 2009 to obtain water quality data closer to the mineralized zone and active exploration drilling. The station is located upstream of Station RAU #4 but below the stream forks. An active drill water sump is located 15 meters downstream of the site.

Updated Sample station designations, coordinates and elevations are:

Station #	UTM Coordinates	Elevation (m)
RAU #1	E 529734 N 7125299	747
RAU #2	E 535018 N 7125488	750
RAU #3	E 529092 N 7116373	787
RAU #4	E 525316 N 7116594	659
RAU #5	E 520576 N 7119159	655
RAU #6	E 530817 N 7118701	no data
RAU #7	E 524405 N 7117800	702
RAU #8	E 523448 N 7125565	718
RAU #9	E 527261 N 7118550	no data

UTM Zone 8 NAD83

Station coordinates and elevations are for helicopter landing sites. Due to the topography and thick vegetation it was often necessary to located / construct landing sites up to100 meters distance from sample sites.
Landing sites were re marked in July 2009 with numbered station signs visible from the air.

Sample Analysis Parameters

Each station was sampled for routine chemistry, total metals, dissolved metals, total cyanide, total mercury and total organic carbon.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total mercury, total and dissolved metal samples were preserved with nitric acid immediately after sampling.

Total cyanide samples were preserved with sodium hydroxide immediately after sampling.

Quality control samples (Duplicates) for total metals and dissolved metals were taken at Stations RAU #1 and RAU #3 in July, 2009.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Bodycote T.G. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH were not taken as instrument was not operating reliably. Water temperatures were taken with an alcohol thermometer.

Stream flow volumes were measured with a Price AA velocity meter and cross sectional area calculations.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. Routine Chemistry, Total Cyanide, Total Organic Carbon – laboratory analysis and field measurement results

Table 2. Total Metals ICP- MS and Total Mercury– laboratory analysis results

Table 3. Dissolved Metals ICP – MS laboratory analysis results

Table 4. Quality Control Samples – laboratory analysis results for Total Metals

Table 5. Quality Control Samples – laboratory analysis results for Dissolved Metals

Listed with the analysis data are the laboratory detection limits for each parameter.

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic ***Guidelines*** for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to CCME – ***Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Bodycote Testing Group of Surrey B.C. Laboratory Analytical Reports are issued under “EXOVA” – a recent purchaser of Bodycote TG.

Laboratory Analytical Reports are attached in Appendix 1.

Table 3. ATAC Resources - RAU Claims, July 2009.

Dissolved Metals Analysis Results

Parameter	Units	RAU #1	RAU #2	RAU #3	RAU #4	RAU #5	RAU #6	RAU #7	RAU #8	RAU#9	Detection Limit
Aluminum	mg/L	<0.005	0.008	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Antimony	mg/L	0.0005	0.0002	0.0006	0.0004	0.0013	0.0005	0.0006	0.0006	0.0006	0.0002
Arsenic	mg/L	0.0088	0.0004	0.0061	0.0062	0.0046	0.0034	0.0032	0.0031	0.0053	0.0002
Barium	mg/L	0.084	0.051	0.104	0.14	0.131	0.077	0.174	0.197	0.225	0.001
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Boron	mg/L	<0.004	<0.005	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004
Cadmium	mg/L	0.00006	<0.00001	0.00003	0.00001	0.0004	<0.00001	0.00008	0.00011	<0.00001	0.00001
Calcium	mg/L	60.5	56.4	59.7	52.1	78.6	33.4	41.9	45.2	48.3	0.1
Chromium	mg/L	0.0008	<0.0004	0.0006	0.0007	0.0012	0.0006	0.0008	0.0008	0.0007	0.0004
Cobalt	mg/L	0.00007	0.000009	0.00006	0.00005	0.00013	0.00008	0.00005	0.00006	0.00006	0.00002
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Iron	mg/L	0.02	0.056	0.01	<0.01	0.15	<0.01	<0.01	0.01	<0.01	0.01
Lead	mg/L	<0.0001	<0.0001	0.0003	<0.0001	0.0004	<0.0001	0.0001	<0.0001	<0.0001	0.0001
Lithium	mg/L	0.002	0.005	0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.001
Magnesium	mg/L	6.8	13.3	16.3	19.1	29.8	13	22.4	16.8	15.2	0.1
Manganese	mg/L	0.0053	0.0149	0.0022	0.0014	0.0213	0.0006	0.0003	0.0025	0.0012	0.0002
Molybdenum	mg/L	0.0017	0.0006	0.0028	0.0013	0.0074	0.002	0.0001	0.0007	0.0013	0.0001
Nickel	mg/L	<0.001	0.002	<0.001	<0.001	0.012	<0.001	<0.001	0.002	<0.001	0.0001
Potassium	mg/L	<0.1	0.4	1	0.5	0.8	<0.1	<0.1	<0.1	0.1	0.1
Sulfur	mg/L	15.7	19.7	9	9.4	13.2	2	10.2	8.8	6.8	0.2
Selenium	mg/L	0.003	<0.0006	<0.0006	<0.0006	0.0018	<0.0006	<0.0006	<0.0006	<0.0006	0.0006
Strontium	mg/L	0.135	0.132	0.081	0.08	0.189	0.022	0.042	0.054	0.063	0.001
Silver	mg/L	0.00079	0.00006	0.00012	0.00015	0.0001	0.00008	0.00004	<0.00001	<0.00001	0.00001
Silicon	mg/L	2.5	2.69	2.36	2.19	2.79	1.12	1.86	1.22	1.76	0.05
Sodium	mg/L	1.4	1.97	1.2	0.8	1.3	0.6	0.8	0.7	0.6	0.1
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001
Titanium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0004
Uranium	mg/L	0.002	0.0005	0.0029	0.0023	0.0156	0.002	0.0014	0.004	0.0015	0.0004
Vanadium	mg/L	0.0004	<0.0001	0.0002	0.0003	0.0005	0.0002	0.0003	0.0003	0.0002	0.0001
Zinc	mg/L	0.005	0.006	0.003	0.009	0.078	0.004	0.005	0.035	0.003	0.001

Quality Control

Quality control duplicate samples at Station RAU #1 and RAU#1 are listed in Table 4 (Total Metals) and Table 5 (Dissolved Metals). Variations in analysis results between duplicate samples of greater than 10% are highlighted in yellow.

Discussion

Hydrology

The July 2009 survey was done with tributary streams in decreasing flow stage from spring freshet. Flows in the Beaver and Rackla Rivers decreased from June 2009 to near summer low flows with exposed sand/ gravel banks predominating.
Measured tributary flow volumes for the July 2009 survey are significantly lower than those measured previously, with the exception of RAU #4 and RAU#5 which remained similar to the June 2009 volumes.

Measured flow volumes for each station are listed below.

Measured Stream Flow Volumes – RAU Claims 2008/09

Station	Flow Volume (cubic meters/second)			
	Aug 2008	Oct 2008	Jun 2009	Jul 2009
RAU #1	0.502	0.734	0.747	0.129
RAU #2	0.234	0.430	0.287	0.053
RAU #3	0.493	0.690	0.461	0.129
RAU #4	0.043	nr	0.066	0.069
RAU #5	0.038	nr	0.023	0.022
RAU #6	0.025 Estimated		0.010 E	0.003
RAU #7	0.027	0.042	0.039	0.017
RAU #8	0.074	nr	0.374	0.087
RAU#9	-	-	-	0.019

Flow volume calculations are contained in Appendix 2.

Beaver River flow volume and cross sectional profile were measured for a winter road stream crossing upstream of the confluence of Scougale Creek and Beaver River at UTM coordinates **E** 514008 **N** 7121403. Flow volumes were calculated at 11.8 cubic meters per second.

Table 5. Quality Control Samples July 2009, Rau Claims
Dissolved Metals Analysis - Duplicate Samples

Parameter	Units	RAU#1	QC09-01	RAU#3	QC09-02
Dissolved Metals					
Aluminum	mg/L	<0.005	<0.005	0.006	<0.005
Antimony	mg/L	0.0005	0.0004	0.0006	0.0006
Arsenic	mg/L	0.0088	0.0025	0.0061	0.0028
Barium	mg/L	0.084	0.082	0.104	0.109
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	<0.004	0.004	0.005
Cadmium	mg/L	0.00006	0.00008	0.00003	0.00003
Calcium	mg/L	60.5	60.6	59.7	59
Chromium	mg/L	0.0008	0.0008	0.0006	0.0006
Cobalt	mg/L	0.00007	0.00006	0.00006	0.00006
Copper	mg/L	<0.001	<0.001	<0.001	<0.001
Iron	mg/L	0.02	<0.01	0.01	0.02
Lead	mg/L	<0.0001	<0.0001	0.0003	<0.0001
Lithium	mg/L	0.002	0.002	0.001	0.002
Magnesium	mg/L	6.8	6.8	16.3	16.1
Manganese	mg/L	0.0053	0.005	0.0022	0.0024
Molybdenum	mg/L	0.0017	0.0015	0.0028	0.0029
Nickel	mg/L	<0.001	<0.001	<0.001	0.001
Potassium	mg/L	<0.1	<0.1	1	0.9
Sulfur	mg/L	15.7	14.7	9	8.8
Selenium	mg/L	0.003	0.0033	<0.0006	<0.0006
Strontium	mg/L	0.135	0.127	0.081	0.085
Silver	mg/L	0.00079	<0.00001	0.00012	<0.00001
Silicon	mg/L	2.5	2.49	2.36	2.35
Sodium	mg/L	1.4	1.4	1.2	1.1
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Titanium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Uranium	mg/L	0.002	0.0018	0.0029	0.0027
Vanadium	mg/L	0.0004	0.0004	0.0002	0.0002
Zinc	mg/L	0.005	0.004	0.003	0.002
Hardness (CaC03)	mg/L	181	179	215	214

Denote >10% variation between duplicate samples

Routine Chemistry

Field measurement and lab analysis results for routine chemistry are listed in Table 1.

Sampling and laboratory analysis for parameters total cyanide, total mercury and total organic carbon was begun in June 2009 addition to parameters from previous events. Total cyanide and total organic carbon analysis results are listed with routine chemistry parameters in Table 1, total mercury analysis results with total metals in Table 2.

Analysis results for all stations for all parameters measured meet the *Drinking Water Guideline's MA*C's.

Analysis results for all parameters with the exception of Nitrite – N at Station RAU #2 and RAU #5 meet the *CCME Guidelines* for the protection of Aquatic Life.

Nitrite – N values in July 2009 were below *Aquatic Guideline* concentration (0.06 mg/L) at all stations with the exception of RAU #2 (0.12 mg/L) and RAU #5 (0.14 mg/L). Station RAU #5 has Nitrite – N values above the *Aquatic Guideline* concentration for all four surveys (0.14 mg/L in June 2009, 0.16mg/L in October and 0.14 mg/L in August of 2008)
The presence of Nitrite – N in the absence of any industrial pollutants may be the result of nitrification, oxidation of ammonia by bacteria. The pH values for all sites are near/ above the optimum oxidation pH of 8.0. The rate of nitrification would be inhibited by the low water temperature.
Nitrate – N was also detected at all stations with values ranging from 0.05 to 0.23 mg/L this survey, 0.08 to 0.26 mg/L in June 2009, 0.07 to 0.21 mg/L in August 2008, 0.1 to 0.34 mg/L in October 2008.

Total Hardness as CaC03 values range from 142 – 334 mg/L, giving a continued hardness rating of "hard to very hard". The range of hardness values has increased from June 2009, due to due to a decrease in surface flows resulting in an high proportion of groundwater flows.

Total cyanide was not detected at any stations this survey. During the June 2009 survey, total cyanide concentrations were consistently at the detection limit of 0.001 mg/L. Station RAU#6 (drinking water supply) was again not sampled for total cyanide. Total cyanide levels are well below ***Drinking Water*** and ***Aquatic Guideline*** levels.

Total organic carbon values range from 0.7 to 2.1 mg/L compared to a range of 0.6 to 3.1 mg/L in June 2009.

Metals

The laboratory analytical report notes that some total metal results are less than dissolved metal concentrations but are verified and are within the expected measurement uncertainty.

Total metals analysis results are listed in Table 2, dissolved metals analysis results in Table 3.

Total metals concentrations exceed the ***Drinking Water Guidelines*** for iron (*MAC* of 0.3 mg/L) at RAU#5 (0.55 mg/L).

Total metals concentrations exceeded ***Aquatic Guideline*** levels for aluminum at RAU#5 (0.174 mg/L), for iron at RAU#5 (0.55 mg/L), for selenium at RAU #1 (0.0026 mg/L) and RAU#5 (0.0019 mg/L), for silver at RAU #1 (0.00018 mg/L) and for zinc at RAU#5 (0.106 mg/KL) and RAU#8 (0.04 mg/L).

Station RAU #1

Station RAU #1 is located on a tributary to Kathleen Lakes / Rackla River. The tributary is one of the larger watersheds draining the claim area with a measured stream flow volume in July 2009 of 0.129 cms, decreased from June 2009 (0.747 cms). Stream flows are contained within a single channel with well defined banks and a rock and cobble channel base.
Total metals analysis at Station RAU #1 had no parameters exceeds the ***Drinking Water Quality Guidelines (DWQ)*.**
Concentrations of total selenium (0.0026 mg/L) and total silver (0.00018 mg/L) exceed the ***CCME Aquatic Guidelines***. .

Station RAU #2

Station RAU #2 is located on a tributary of the Rackla River that discharges directly into Kathleen Lakes. Measured stream flow volumes in July 2009 were 0.053 cms compared to 0.287 cms in June 2009, 0.430 cms in October and 0.234 cms in August 2008.

Total metals analysis results show concentrations of total iron 0.056 mg/L in July and 0.016 mg/L in June 2009 are decreased from 0.27 mg/L in October and 0.34 mg/L in August. Previously elevated levels of total manganese (0.077 mg/L in October 2008) have met the ***DWQ Guidelines MAC*** of 0.05 mg/L in both 2009 surveys..
Concentrations of all parameters meet the ***CCME – Aquatic Guidelines***.

Station RAU #3

Station RAU #3 is located on a tributary to the Beaver River. This tributary is the largest tributary to the Beaver River draining the claim area with a measured stream flow volume in July of 0.129 cms compared to 0.461 cms in June 2009, 0.690 cms in October and 0.493 cms in August. The station is located approximately 2 km upstream of stream confluence with the Beaver River. The stream channel is contained within a canyon, stream bed consists of boulders, rock and cobbles.

The exploration camp is located near the headwaters of this tributary as is Station RAU#6.
Total metals analysis results show concentrations of all parameters tested meet the ***DWQ Guideline MAC's*.**
Concentrations of total iron, total aluminum and total selenium continue to decrease from August and October 2008 and now meet the ***CCME – Aquatic Guidelines*.**

Station RAU #4

Station RAU #4 is located on a tributary to the Beaver River. This stream channel drains the mineral deposit area presently being diamond drilled. The drill water is obtained from this channel.

Measured flow volume in June (0.066 cms) and July (0.069 cms), 2009 are higher than those measured in August 2008 of 0.043 cms. The station was not accessed during the October 2008 survey.

July 2009 analysis results, as those from june 2009 and August 2008 show no metal parameters exceed the ***DWQ or CCME – Aquatic Guidelines.***

Station RAU #5

Station RAU #5 is located on a tributary to the Beaver River east of Station RAU #4. The station is located near the mouth, downstream of the break in slope.

Stream flow volumes were measured at 0.022 cms compared with 0.023 cms in June 2009, 0.038 cms in August 2008. No flow measurement was done in October 2008.
Concentrations of total iron (0.55 mg/L) exceed ***DWQ-Guideline MAC*** of 0.3 mg/L
Total metals analysis results concentrations of total iron (0.55 mg/L), total selenium (0.0019mg/L) and total zinc (0.106 mg/L) exceed the ***CCME – Aquatic Guidelines.***
Concentrations for iron and zinc have increased over June 2009, while selenium has decreased.

Station RAU #6

Station RAU #6 is located on the same tributary as Station RAU #3 and represents the camp drinking water supply.
Concentrations of all parameters measured meet all ***DWQ* and *Aquatic Guidelines***.

Station RAU #7

Station RAU #7 is located on a tributary to the Beaver River. The station is located approximately 1 kilometer upstream of the confluence with the Beaver River just upstream of the break in slope. The stream is single channel contained within stable banks. Stream bed materials are rock and cobble with limited silt deposition.
July stream flow volumes were measured at 0.017 cms compared to 0.039 cms in June 2009, 0.042 cms in October and 0.027 cms in August 2008.
Total metals analysis results for July 2009 show values for all parameters tested meet the ***DWQ and CCME Aquatic Guidelines*** as they did in June 2009, August and October 2008.

Station RAU #8

Station RAU #8 is located on a tributary to the Rackla River upstream of Kathleen Lakes. Due to topography and vegetation, the survey site is located near the stream mouth / confluence with the Rackla River. The stream is confined to a single channel at medium to low volumes but during higher flows may be multi channeled. Stream channel characteristics are grass/ moss covered near vertical bank slopes with heavy silt deposition in channel base.
Measured flow volumes in July were 0.087 cms compared to 0.374 cms in June 2009, 0.074 cms in August 2008. There was no flow volume measured in October, 2008.

Total metals analysis results show all parameters tested meet ***DWQ – Guideline MAC's*.**

Concentrations of total zinc (0.04 mg/L) continue to exceed the ***CCME – Aquatic Guideline*** value of 0.03 mg/L.

Station RAU #9

Station RAU #9 was established in July 2009 and is located on a Beaver River tributary upstream of Station RAU#4. The station is situated to obtain data closer to the mineralized zone. The site is located below the upper stream forks but above the drill water sump.
Stream flow volume was measured at 0.019 cms.
Total metals analysis results show all parameters tested meet the ***DWQ and CCME Aquatic Guidelines***.

Concentrations of total mercury were below the detection limit of 0.01 mg/L at all stations.

Summary

The July 2009 baseline survey was conducted during a decreasing flow stage in tributary streams and main stem rivers. Flow volumes were generally the lowest volumes measured during 2008 and 2009 surveys.

All stations were access during the July 2009 survey, with an additional station RAU #9 being established.

Routine chemistry, total metals and dissolved metals analysis indicate tributary streams draining the RAU claims have moderate to low concentrations for parameters tested.

July 2009 analysis results are consistent with those of August and October 2008 with minor variations in levels of total aluminum, iron and zinc most evident.

Concentrations of parameters that do exceed ***Drink Water Quality or CCME-Aquatic Guideline*** values are generally low level concentrations slightly elevated above ***Guideline*** levels.

An increase in total hardness values for most stations indicates an increase in anions as groundwater contributions increase as a proportion of total flow.

Laboratory Analytical Reports are attached in Appendix 1.

Flow volume discharge calculation sheets are attached in Appendix 2.

Data summaries for each station are contained in Appendix 3.

Further improvement to helicopter landing sites continues.

Station signs were installed at each landing site.

A flow volume measurement and river profile was done on the Beaver River upstream of Scougale Creek on July 31. Survey results were submitted under separate cover.

A P P E N D I X 1

LABORATORY ANALYTICAL REPORTS

July 2009

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates Box 20111 Whitehorse, YT, Canada Y1A 7A2	ID: Name: Location: LSD:	Atac Resources Rau Claims
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Approval Status:	Approved
Invoice Frequency:	by Lot
COD Status:	
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20111 Whitehorse, Yukon Territory Y1A 7A2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: luditegibson@yahoo.ca	On [Lot Verification] send (COA) by Email - Multiple Reports On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report

Notes To Clients:

- Samples 1-9 were analyzed for Ammonia after holding time had expired.

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Sample Custody

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Atac Resources
	Box 20111	Name:	Rau Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

Sample Disposal Date: September 09, 2009

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	$ 2.50 per sample
Storage for an additional 60 days	$ 5.00 per sample
Storage for an additional 90 days	$ 7.50 per sample

☐ Return Sample, collect, to the address below via:

- ☐ Greyhound
- ☐ DHL
- ☐ Purolator
- ☐ Other (specify) _____

Name _____
Company _____
Address _____
_____
Phone _____
Fax _____

Signature _____

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**695650**
Report To:	J. Gibson & Associates	ID:	Atac Resources	Control Number:	A094668
	Box 20111	Name:	Rau Claims	Date Received:	Aug 4, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Aug 10, 2009
	Y1A 7A2	LSD:		Report Number:	1239628
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	695650-1	695650-2	695650-3	
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #1 / Surface	RAU #2 / Surface	RAU #3 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.1	1.5	2.1	0.5
Cyanide	Total	mg/L	<0.001	<0.001	<0.001	0.001
Ammonia - N		mg/L	<0.01	0.01	<0.01	
Metals Dissolved						
Aluminum	Dissolved	mg/L	<0.005	<0.005	0.006	0.005
Antimony	Dissolved	mg/L	0.0005	0.0006	0.0006	0.0002
Arsenic	Dissolved	mg/L	0.0088	0.0066	0.0061	0.0002
Barium	Dissolved	mg/L	0.084	0.048	0.104	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	0.004	0.004
Cadmium	Dissolved	mg/L	0.00006	<0.00001	0.00003	0.00001
Chromium	Dissolved	mg/L	0.0008	0.0004	0.0006	0.0004
Cobalt	Dissolved	mg/L	0.00007	0.00007	0.00006	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	0.02	0.02	0.01	0.01
Lead	Dissolved	mg/L	<0.0001	<0.0001	0.0003	0.0001
Lithium	Dissolved	mg/L	0.002	0.005	0.001	0.001
Manganese	Dissolved	mg/L	0.0053	0.0060	0.0022	0.0002
Molybdenum	Dissolved	mg/L	0.0017	0.0005	0.0028	0.0001
Nickel	Dissolved	mg/L	<0.001	0.001	<0.001	0.001
Selenium	Dissolved	mg/L	0.0030	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	0.00079	0.00016	0.00012	0.00001
Strontium	Dissolved	mg/L	0.135	0.122	0.081	0.001
Sulfur	Dissolved	mg/L	15.7	19.5	9.0	0.2
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Uranium	Dissolved	mg/L	0.0020	0.0006	0.0029	0.0004
Vanadium	Dissolved	mg/L	0.0004	0.0001	0.0002	0.0001
Zinc	Dissolved	mg/L	0.005	0.002	0.003	0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01	<0.01	0.01

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**695650**
Report To:	J. Gibson & Associates	ID:	Atac Resources	Control Number:	A094668
	Box 20111	Name:	Rau Claims	Date Received:	Aug 4, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Aug 10, 2009
	Y1A 7A2	LSD:		Report Number:	1239628
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	695650-1	695650-2	695650-3	
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #1 / Surface	RAU #2 / Surface	RAU #3 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Aluminum	Total	mg/L	0.007	0.008	0.009	0.005
Antimony	Total	mg/L	0.0003	0.0002	0.0002	0.0002
Arsenic	Total	mg/L	<0.0002	0.0004	0.0009	0.0002
Barium	Total	mg/L	0.080	0.051	0.113	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	<0.005	<0.005	0.006	0.004
Cadmium	Total	mg/L	0.00008	<0.00001	0.00005	0.00001
Calcium	Total	mg/L	61.2	56.4	59.3	0.05
Chromium	Total	mg/L	0.0005	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00006	0.00009	0.00006	0.00002
Copper	Total	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Total	mg/L	0.016	0.056	0.032	0.01
Lead	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.002	0.005	0.001	0.001
Magnesium	Total	mg/L	6.93	13.3	16.2	0.05
Manganese	Total	mg/L	0.0061	0.0149	0.0040	0.0002
Molybdenum	Total	mg/L	0.0016	0.0006	0.0031	0.0001
Nickel	Total	mg/L	0.001	0.002	0.001	0.001
Phosphorus	Total	mg/L	<0.010	<0.01	<0.01	0.01
Potassium	Total	mg/L	0.2	0.4	1.0	0.1
Selenium	Total	mg/L	0.0028	<0.0006	0.0006	0.0006
Silicon	Total	mg/L	2.56	2.69	2.40	0.05
Silver	Total	mg/L	0.00018	0.00006	<0.00001	0.00001
Sodium	Total	mg/L	1.62	1.97	0.87	0.02
Strontium	Total	mg/L	0.128	0.132	0.086	0.001
Sulfur	Total	mg/L	15.0	19.7	9.1	0.1
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Uranium	Total	mg/L	0.0016	0.0005	0.0028	0.0004
Vanadium	Total	mg/L	0.0003	<0.0001	0.0002	0.0001
Zinc	Total	mg/L	0.008	0.006	0.003	0.001
Zirconium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001

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Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Atac Resources
	Box 20111	Name:	Rau Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

		Reference Number	695650-1	695650-2	695650-3
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009
		Sample Time	NA	NA	NA
		Sample Location			
		Sample Description	RAU #1 / Surface	RAU #2 / Surface	RAU #3 / Surface
		Matrix	Water	Water	Water
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Solids	Total Dissolved	mg/L	280	284	270	5
Routine Water						
pH	@ 25 °C		8.16	8.23	8.36	
Electrical Conductivity		µS/cm at 25 C	338	366	392	1
Calcium	Dissolved	mg/L	60.5	55.4	59.7	0.1
Magnesium	Dissolved	mg/L	6.8	13.0	16.3	0.1
Phosphorus	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L	<0.1	0.2	1	0.1
Silicon	Dissolved	mg/L	2.50	2.64	2.36	0.05
Sodium	Dissolved	mg/L	1.4	1.8	1.2	0.1
Bicarbonate		mg/L	170	170	240	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	136	137	198	5
Chloride	Dissolved	mg/L	0.05	0.1	0.03	0.02
Nitrate - N	Dissolved	mg/L	0.07	0.06	0.05	0.01
Nitrite - N	Dissolved	mg/L	<0.01	0.12	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	49.8	65.2	28.5	0.05
Sulfate (SO4)	Dissolved	mg/L	47.0	58.4	27	0.6
Hardness	as CaCO3	mg/L	179	192	216	5
Hardness	Total	mg CaCO3/L	181	196	215	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Atac Resources
	Box 20111	Name:	Rau Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

		Reference Number	695650-4	695650-5	695650-6	
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #4 / Surface	RAU #5 / Surface	RAU #6 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	0.9	1.3		0.5
Cyanide	Total	mg/L	<0.001	<0.001		0.001
Ammonia - N		mg/L	<0.01	0.01	<0.01	
Metals Dissolved						
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0004	0.0013	0.0005	0.0002
Arsenic	Dissolved	mg/L	0.0062	0.0046	0.0034	0.0002
Barium	Dissolved	mg/L	0.140	0.131	0.077	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00001	0.00040	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0007	0.0012	0.0006	0.0004
Cobalt	Dissolved	mg/L	0.00005	0.00013	0.00008	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	<0.01	0.15	<0.01	0.01
Lead	Dissolved	mg/L	<0.0001	0.0004	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.002	<0.001	0.001
Manganese	Dissolved	mg/L	0.0014	0.0213	0.0006	0.0002
Molybdenum	Dissolved	mg/L	0.0013	0.0074	0.0020	0.0001
Nickel	Dissolved	mg/L	<0.001	0.012	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	0.0018	<0.0006	0.0006
Silver	Dissolved	mg/L	0.00015	0.00010	0.00008	0.00001
Strontium	Dissolved	mg/L	0.080	0.189	0.022	0.001
Sulfur	Dissolved	mg/L	9.4	13.2	2.0	0.2
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Uranium	Dissolved	mg/L	0.0023	0.0156	0.0020	0.0004
Vanadium	Dissolved	mg/L	0.0003	0.0005	0.0002	0.0001
Zinc	Dissolved	mg/L	0.009	0.078	0.004	0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01		0.01

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**695650**
Report To:	J. Gibson & Associates	ID:	Atac Resources	Control Number:	A094668
	Box 20111	Name:	Rau Claims	Date Received:	Aug 4, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Aug 10, 2009
	Y1A 7A2	LSD:		Report Number:	1239628
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	695650-4	695650-5	695650-6	
Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
Sample Time	NA	NA	NA	
Sample Location				
Sample Description	RAU #4 / Surface	RAU #5 / Surface	RAU #6 / Surface	
Matrix	Water	Water	Water	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued					
Aluminum Total	mg/L	0.059	0.174	0.005	0.005
Antimony Total	mg/L	<0.0002	0.0008	<0.0002	0.0002
Arsenic Total	mg/L	0.0020	0.0008	<0.0002	0.0002
Barium Total	mg/L	0.142	0.132	0.081	0.001
Beryllium Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium Total	mg/L	0.00002	0.00076	<0.00001	0.00001
Calcium Total	mg/L	55.3	82.2	34.7	0.05
Chromium Total	mg/L	0.0006	0.0009	0.0004	0.0004
Cobalt Total	mg/L	0.00009	0.00040	0.00003	0.00002
Copper Total	mg/L	<0.001	0.002	<0.001	0.001
Iron Total	mg/L	0.079	0.550	<0.01	0.01
Lead Total	mg/L	0.0001	0.0007	<0.0001	0.0001
Lithium Total	mg/L	0.001	0.002	<0.001	0.001
Magnesium Total	mg/L	19.6	31.2	13.5	0.05
Manganese Total	mg/L	0.0045	0.0288	0.0014	0.0002
Molybdenum Total	mg/L	0.0013	0.0070	0.0021	0.0001
Nickel Total	mg/L	0.001	0.018	<0.001	0.001
Phosphorus Total	mg/L	<0.01	0.017	<0.01	0.01
Potassium Total	mg/L	0.6	0.9	<0.1	0.1
Selenium Total	mg/L	<0.0006	0.0019	<0.0006	0.0006
Silicon Total	mg/L	2.29	3.10	1.16	0.05
Silver Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium Total	mg/L	1.07	1.34	0.70	0.02
Strontium Total	mg/L	0.080	0.208	0.023	0.001
Sulfur Total	mg/L	9.4	13.4	2.0	0.1
Tellurium Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium Total	mg/L	<0.00001	0.00003	<0.00001	0.00001
Thorium Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium Total	mg/L	0.0016	0.0074	<0.0004	0.0004
Uranium Total	mg/L	0.0024	0.0121	0.0019	0.0004
Vanadium Total	mg/L	0.0004	0.0014	0.0001	0.0001
Zinc Total	mg/L	0.012	0.106	0.006	0.001
Zirconium Total	mg/L	<0.0001	0.0001	<0.0001	0.0001

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Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Atac Resources
	Box 20111	Name:	Rau Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

		Reference Number	695650-4	695650-5	695650-6	
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #4 / Surface	RAU #5 / Surface	RAU #6 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	4	19	<2	1
Solids	Total Dissolved	mg/L	256	362	164	5
Routine Water						
pH	@ 25 °C		8.29	8.07	8.21	
Electrical Conductivity		µS/cm at 25 C	388	569	265	1
Calcium	Dissolved	mg/L	52.1	78.6	33.4	0.1
Magnesium	Dissolved	mg/L	19.1	29.8	13.0	0.1
Phosphorus	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L	0.5	0.8	<0.1	0.1
Silicon	Dissolved	mg/L	2.19	2.79	1.12	0.05
Sodium	Dissolved	mg/L	0.8	1.3	0.6	0.1
Bicarbonate		mg/L	230	350	170	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	191	290	141	5
Chloride	Dissolved	mg/L	0.32	0.47	<0.02	0.02
Nitrate - N	Dissolved	mg/L	0.23	0.09	0.09	0.01
Nitrite - N	Dissolved	mg/L	<0.01	0.14	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	31.8	45.8	5.80	0.05
Sulfate (SO4)	Dissolved	mg/L	28	39.6	6.0	0.6
Hardness	as CaCO3	mg/L	209	319	137	5
Hardness	Total	mg CaCO3/L	219	334	142	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**695650**
Report To:	J. Gibson & Associates	ID:	Atac Resources	Control Number:	A094668
	Box 20111	Name:	Rau Claims	Date Received:	Aug 4, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Aug 10, 2009
	Y1A 7A2	LSD:		Report Number:	1239628
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	695650-7	695650-8	695650-9	
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #7 / Surface	RAU #8 / Surface	RAU #9 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	0.7	1.4	0.9	0.5
Cyanide	Total	mg/L	<0.001	<0.001	<0.001	0.001
Ammonia - N		mg/L	<0.01	0.01	0.01	
Metals Dissolved						
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0006	0.0006	0.0006	0.0002
Arsenic	Dissolved	mg/L	0.0032	0.0031	0.0053	0.0002
Barium	Dissolved	mg/L	0.174	0.197	0.225	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00008	0.00011	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0008	0.0008	0.0007	0.0004
Cobalt	Dissolved	mg/L	0.00005	0.00006	0.00006	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	<0.01	0.01	<0.01	0.01
Lead	Dissolved	mg/L	0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Manganese	Dissolved	mg/L	0.0003	0.0025	0.0012	0.0002
Molybdenum	Dissolved	mg/L	0.0001	0.0007	0.0013	0.0001
Nickel	Dissolved	mg/L	<0.001	0.002	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	0.00004	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.042	0.054	0.063	0.001
Sulfur	Dissolved	mg/L	10.2	8.8	6.8	0.2
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Uranium	Dissolved	mg/L	0.0014	0.0040	0.0015	0.0004
Vanadium	Dissolved	mg/L	0.0003	0.0003	0.0002	0.0001
Zinc	Dissolved	mg/L	0.005	0.035	0.003	0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01	<0.01	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Atac Resources
Name: Rau Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **695650**
Control Number: A094668
Date Received: Aug 4, 2009
Date Reported: Aug 10, 2009
Report Number: 1239628

		Reference Number	695650-7	695650-8	695650-9	
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #7 / Surface	RAU #8 / Surface	RAU #9 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Aluminum	Total	mg/L	0.007	0.008	0.016	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0002	0.0004	0.0027	0.0002
Barium	Total	mg/L	0.176	0.200	0.211	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00002	0.00014	0.00003	0.00001
Calcium	Total	mg/L	42.9	46.2	50.0	0.05
Chromium	Total	mg/L	0.0005	0.0005	0.0005	0.0004
Cobalt	Total	mg/L	0.00004	0.00005	0.00005	0.00002
Copper	Total	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Total	mg/L	0.013	0.022	0.030	0.01
Lead	Total	mg/L	0.0001	0.0002	<0.0001	0.0001
Lithium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Magnesium	Total	mg/L	22.9	17.2	15.6	0.05
Manganese	Total	mg/L	0.0009	0.0041	0.0023	0.0002
Molybdenum	Total	mg/L	0.0002	0.0007	0.0013	0.0001
Nickel	Total	mg/L	<0.001	0.002	<0.001	0.001
Phosphorus	Total	mg/L	<0.010	<0.01	<0.010	0.01
Potassium	Total	mg/L	<0.1	0.2	0.3	0.1
Selenium	Total	mg/L	<0.0006	0.0007	<0.0006	0.0006
Silicon	Total	mg/L	1.93	1.27	1.83	0.05
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium	Total	mg/L	0.89	0.87	0.79	0.02
Strontium	Total	mg/L	0.044	0.056	0.066	0.001
Sulfur	Total	mg/L	10.4	8.8	6.9	0.1
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L	<0.0004	<0.0004	0.0007	0.0004
Uranium	Total	mg/L	0.0014	0.0036	0.0012	0.0004
Vanadium	Total	mg/L	0.0002	0.0002	0.0002	0.0001
Zinc	Total	mg/L	0.012	0.040	0.009	0.001
Zirconium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001

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Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Atac Resources
	Box 20111	Name:	Rau Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

		Reference Number	695650-7	695650-8	695650-9	
		Sample Date	Jul 31, 2009	Jul 31, 2009	Jul 31, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #7 / Surface	RAU #8 / Surface	RAU #9 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	2	<2	<2	1
Solids	Total Dissolved	mg/L	250	240	230	5
Routine Water						
pH	@ 25 °C		8.34	8.26	8.23	
Electrical Conductivity		µS/cm at 25 C	371	344	348	1
Calcium	Dissolved	mg/L	41.9	45.2	48.3	0.1
Magnesium	Dissolved	mg/L	22.4	16.8	15.2	0.1
Phosphorus	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L	<0.1	<0.1	0.1	0.1
Silicon	Dissolved	mg/L	1.86	1.22	1.76	0.05
Sodium	Dissolved	mg/L	0.8	0.7	0.6	0.1
Bicarbonate		mg/L	210	200	210	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	175	164	174	5
Chloride	Dissolved	mg/L	0.07	0.07	12.3	0.02
Nitrate - N	Dissolved	mg/L	0.18	0.08	0.14	0.01
Nitrite - N	Dissolved	mg/L	<0.01	0.05	0.09	0.01
Sulfate (SO4)	Dissolved	mg/L	34.3	29.1	23.0	0.05
Sulfate (SO4)	Dissolved	mg/L	30.6	26	20	0.6
Hardness	as CaCO3	mg/L	197	182	183	5
Hardness	Total	mg CaCO3/L	202	186	189	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Atac Resources
Name: Rau Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **695650**
Control Number: A094668
Date Received: Aug 4, 2009
Date Reported: Aug 10, 2009
Report Number: 1239628

Reference Number	695650-10	695650-11	
Sample Date	Jul 31, 2009	Jul 31, 2009	
Sample Time	NA	NA	
Sample Location			
Sample Description	QC09-01 / Surface	QC09-02 / Surface	
Matrix	Water	Water	

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Dissolved						
Aluminum	Dissolved	mg/L	<0.005	<0.005		0.005
Antimony	Dissolved	mg/L	0.0004	0.0006		0.0002
Arsenic	Dissolved	mg/L	0.0025	0.0028		0.0002
Barium	Dissolved	mg/L	0.082	0.109		0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	<0.004	0.005		0.004
Cadmium	Dissolved	mg/L	0.00008	0.00003		0.00001
Chromium	Dissolved	mg/L	0.0008	0.0006		0.0004
Cobalt	Dissolved	mg/L	0.00006	0.00006		0.00002
Copper	Dissolved	mg/L	<0.001	<0.001		0.001
Iron	Dissolved	mg/L	<0.01	0.02		0.01
Lead	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.002	0.002		0.001
Manganese	Dissolved	mg/L	0.0050	0.0024		0.0002
Molybdenum	Dissolved	mg/L	0.0015	0.0029		0.0001
Nickel	Dissolved	mg/L	<0.001	0.001		0.001
Selenium	Dissolved	mg/L	0.0033	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Strontium	Dissolved	mg/L	0.127	0.085		0.001
Sulfur	Dissolved	mg/L	14.7	8.8		0.2
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Titanium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Uranium	Dissolved	mg/L	0.0018	0.0027		0.0004
Vanadium	Dissolved	mg/L	0.0004	0.0002		0.0001
Zinc	Dissolved	mg/L	0.004	0.002		0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Metals Total						
Aluminum	Total	mg/L	0.007	0.007		0.005
Antimony	Total	mg/L	<0.0002	<0.0002		0.0002
Arsenic	Total	mg/L	<0.0002	0.0007		0.0002
Barium	Total	mg/L	0.077	0.104		0.001
Beryllium	Total	mg/L	<0.00004	<0.00004		0.00004

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Atac Resources
Name: Rau Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **695650**
Control Number: A094668
Date Received: Aug 4, 2009
Date Reported: Aug 10, 2009
Report Number: 1239628

Reference Number	695650-10	695650-11	
Sample Date	Jul 31, 2009	Jul 31, 2009	
Sample Time	NA	NA	
Sample Location			
Sample Description	QC09-01 / Surface	QC09-02 / Surface	
Matrix	Water	Water	

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued						
Bismuth	Total	mg/L	<0.001	<0.001		0.001
Boron	Total	mg/L	<0.005	0.005		0.004
Cadmium	Total	mg/L	0.00006	0.00005		0.00001
Calcium	Total	mg/L	62.3	60.6		0.05
Chromium	Total	mg/L	0.0004	<0.0004		0.0004
Cobalt	Total	mg/L	0.00006	0.00005		0.00002
Copper	Total	mg/L	<0.001	<0.001		0.001
Iron	Total	mg/L	0.015	0.030		0.01
Lead	Total	mg/L	<0.0001	<0.0001		0.0001
Lithium	Total	mg/L	0.002	0.002		0.001
Magnesium	Total	mg/L	7.00	16.5		0.05
Manganese	Total	mg/L	0.0061	0.0034		0.0002
Molybdenum	Total	mg/L	0.0016	0.0029		0.0001
Nickel	Total	mg/L	0.001	<0.001		0.001
Phosphorus	Total	mg/L	<0.01	<0.010		0.01
Potassium	Total	mg/L	0.3	1.1		0.1
Selenium	Total	mg/L	0.0025	0.0008		0.0006
Silicon	Total	mg/L	2.59	2.42		0.05
Silver	Total	mg/L	<0.00001	<0.00001		0.00001
Sodium	Total	mg/L	1.65	0.90		0.02
Strontium	Total	mg/L	0.132	0.083		0.001
Sulfur	Total	mg/L	15.4	9.0		0.1
Tellurium	Total	mg/L	<0.0001	<0.0001		0.0001
Thallium	Total	mg/L	<0.00001	<0.00001		0.00001
Thorium	Total	mg/L	<0.0004	<0.0004		0.0004
Tin	Total	mg/L	<0.0001	<0.0001		0.0001
Titanium	Total	mg/L	<0.0004	<0.0004		0.0004
Uranium	Total	mg/L	0.0019	0.0025		0.0004
Vanadium	Total	mg/L	0.0002	0.0002		0.0001
Zinc	Total	mg/L	0.007	0.004		0.001
Zirconium	Total	mg/L	<0.0001	<0.0001		0.0001
Routine Water						
Calcium	Dissolved	mg/L	60.6	59.0		0.1
Magnesium	Dissolved	mg/L	6.8	16.1		0.1
Phosphorus	Dissolved	mg/L	<0.01	<0.01		0.01
Potassium	Dissolved	mg/L	<0.1	0.9		0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**695650**
Report To:	J. Gibson & Associates	ID:	Atac Resources	Control Number:	A094668
	Box 20111	Name:	Rau Claims	Date Received:	Aug 4, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Aug 10, 2009
	Y1A 7A2	LSD:		Report Number:	1239628
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	695650-10	695650-11		
Sample Date	Jul 31, 2009	Jul 31, 2009		
Sample Time	NA	NA		
Sample Location				
Sample Description	QC09-01 / Surface	QC09-02 / Surface		
Matrix	Water	Water		

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Routine Water - Continued						
Silicon	Dissolved	mg/L	2.49	2.35		0.05
Sodium	Dissolved	mg/L	1.4	1.1		0.1
Hardness	as CaCO3	mg/L	179	214		5

Approved by:

Andrew Garrard, BSc
General Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Atac Resources
	Box 20111	Name:	Rau Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water	APHA	*	Conductivity, 2510	05-Aug-09	Exova Surrey
Alk, pH, EC, Turb in water	APHA	*	Electrometric Method, 4500-H+ B	05-Aug-09	Exova Surrey
Alk, pH, EC, Turb in water	APHA	*	Titration Method, 2320 B	05-Aug-09	Exova Surrey
Ammonia-N in Water	APHA	*	Titrametric, 4500-NH3 C	06-Aug-09	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	06-Aug-09	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	06-Aug-09	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	07-Aug-09	Exova Edmonton
Mercury Low Level (Total) in water	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	05-Aug-09	Exova Surrey
Metals SemiTrace (Dissolved) in water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	05-Aug-09	Exova Surrey
Metals SemiTrace (Total) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	05-Aug-09	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile)2	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	05-Aug-09	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	05-Aug-09	Exova Surrey
Trace Metals (dissolved) in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	05-Aug-09	Exova Surrey
Trace Metals (dissolved) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	05-Aug-09	Exova Surrey
Trace Metals (Total) in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	05-Aug-09	Exova Surrey
Trace Metals (Total) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	05-Aug-09	Exova Surrey

** Laboratory method(s) based on reference method*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods
EPA	Environmental Protection Agency Test Methods - US

Comments:

- Samples 1-9 were analyzed for Ammonia after holding time had expired.

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Methodology and Notes

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	Whitehorse, YT, Canada	Location:	
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Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**695650**
Control Number:	A094668
Date Received:	Aug 4, 2009
Date Reported:	Aug 10, 2009
Report Number:	1239628

Comments:

- Samples 1-9 were analyzed for Ammonia after holding time had expired.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

A P P E N D I X 2

Flow Volume Calculations

July 2009

APPENDIX 3

Station Data Summaries (2008 and 2009)

Table. Appendix Summary of Station RAU#1 Analysis Data.

Parameter	Unit	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
pH (field)	ru	8.65	8.92	7.91	nr	
pH (lab)	ru	816	8.17	8.07	8.16	
Conductivity (lab)	uS/cm	288	267	223	338	1
Water temperature	C	3	1	1.5	5	
Flow Volume(field)	cms	0.502	0.734	0.747	0.129	
Ammonia -N	mg/L	0.005	<0.01	<0.01	<0.01	0.005
Orthophosphate -P	mg/L	<0.01	<0.01	<0.01	<0.01	0.01
Chloride	mg/L	0.07	0.12	0.1	0.05	0.02
Nitrate - N	mg/L	0.09	0.16	0.11	0.07	0.01
Nitrite - N	mg/L	<0.01	0.06	<0.01	<0.01	0.01
Sulphate (S04)	mg/L	28.6	27.4	22.6	49.8	0.05
T.Suspended Solids	mg/L	15	18	11	<2	1
T.Dissolved Solids	mg/L	208	222	148	280	5
Hardness (as CaC03)	mg/L	162	141	141	181	
Alkalinity (as CaC03)	mg/L	129	114	89	136	5
Organic Carbon-Total	mg/L			2	1.1	0.05
Cyanide - Total	mg/L			0.001	<0.001	0.001

Table. Appendix Summary of Station RAU #2 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
Total Metals						
Aluminum	mg/L	0.184	0.098	0.053	0.008	0.005
Antimony	mg/L	<0.0002	<0.0002	<0.0002	0.0002	0.0002
Arsenic	mg/L	0.0003	0.0004	0.0003	0.0004	0.0002
Barium	mg/L	0.042	0.041	0.034	0.051	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	<0.001	0.0001
Boron	mg/L	0.003	<0.002	<0.005	<0.005	0.004
Cadmium	mg/L	0.00002	0.00003	0.0006	<0.00001	0.00001
Calcium	mg/L	41.1	36.9	36.5	56.4	0.05
Chromium	mg/L	0.0006	<0.0005	<0.0004	<0.0004	0.0004
Cobalt	mg/L	0.0005	0.0004	0.00019	0.000009	0.00002
Copper	mg/L	0.002	0.006	0.002	<0.001	0.001
Iron	mg/L	0.34	0.27	0.16	0.056	0.01
Lead	mg/L	0.0001	0.0002	0.0002	<0.0001	0.0001
Lithium	mg/L	0.003	0.003	0.002	0.005	0.001
Magnesium	mg/L	8.8	8.6	5.66	13.3	0.05
Manganese	mg/L	0.068	0.077	0.0342	0.0149	0.0001
Molybdenum	mg/L	<0.001	<0.001	0.00037	0.0006	0.00002
Nickel	mg/L	0.0021	0.0018	0.001	0.002	0.001
Potassium	mg/L	<0.4	<0.4	0.2	0.4	0.1
Sulfur	mg/L	10.6	10.2	7.3	19.7	0.1
Selenium	mg/L	0.0008	0.0006	<0.0006	<0.0006	0.0006
Strontium	mg/L	0.087	0.08	0.069	0.132	0.001
Silver	mg/L	<0.00001	0.00002	<0.00001	0.00006	0.00001
Silicon	mg/L	2.52	2.33	1.97	2.69	0.05
Sodium	mg/L	0.9	0.8	1.34	1.97	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	<0.0001	0.0001
Titanium	mg/L	0.0041	0.0026	0.0012	<0.0004	0.0001
Uranium	mg/L	<0.0005	<0.0005	<0.0004	0.0005	0.0004
Vanadium	mg/L	0.0005	0.0004	0.00019	<0.0001	0.00004
Zinc	mg/L	0.006	0.011	0.009	0.006	0.001
Mercury	mg/L			<0.01	<0.01	0.01

Table. Appendix Summary of Station RAU#3 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
Total Metals						
Aluminum	mg/L	0.754	0.95	0.195	0.009	0.005
Antimony	mg/L	0.0002	0.0003	<0.0002	0.0002	0.0002
Arsenic	mg/L	0.0019	0.0036	0.0007	0.0009	0.0002
Barium	mg/L	0.131	0.112	0.076	0.113	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	<0.001	0.0001
Boron	mg/L	0.007	0.006	<0.005	0.006	0.004
Cadmium	mg/L	0.00023	0.00028	0.00011	0.00005	0.00001
Calcium	mg/L	58.2	56.1	41.9	59.3	0.05
Chromium	mg/L	0.0021	0.0025	0.0008	<0.0004	0.0004
Cobalt	mg/L	0.0007	0.0007	0.00021	0.00006	0.00002
Copper	mg/L	0.003	0.004	0.002	<0.001	0.001
Iron	mg/L	1.29	1.45	0.39	0.032	0.01
Lead	mg/L	0.001	0.001	0.0005	<0.0001	0.0001
Lithium	mg/L	0.002	0.003	0.001	0.001	0.001
Magnesium	mg/L	15.9	15.2	11.1	16.2	0.05
Manganese	mg/L	0.04	0.042	0.0159	0.004	0.0001
Molybdenum	mg/L	0.002	0.003	0.00216	0.0031	0.00002
Nickel	mg/L	0.0042	0.0097	0.002	0.001	0.001
Potassium	mg/L	1.2	1.4	0.8	1	0.1
Sulfur	mg/L	9.2	12.1	5.7	9.1	0.1
Selenium	mg/L	0.001	0.0016	0.0012	0.0006	0.0006
Strontium	mg/L	0.086	0.103	0.055	0.086	0.001
Silver	mg/L	0.00002	0.00003	<0.00001	<0.00001	0.00001
Silicon	mg/L	2.92	3.68	2.02	2.4	0.05
Sodium	mg/L	0.7	1.1	1.16	0.87	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	<0.0001	0.0001
Titanium	mg/L	0.023	0.0357	0.006	<0.0004	0.0001
Uranium	mg/L	0.0026	0.0031	0.0017	0.0028	0.0004
Vanadium	mg/L	0.0031	0.0044	0.0008	0.0002	0.00004
Zinc	mg/L	0.018	0.044	0.008	0.003	0.001
Mercury	mg/L			<0.01	<0.01	0.01

Table. Appendix Summary of Station RAU#4 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
Total Metals						
Aluminum	mg/L	0.024	No	0.098	0.059	0.005
Antimony	mg/L	<0.0002	Sample	<0.0002	<0.0002	0.0002
Arsenic	mg/L	0.002		0.0024	0.002	0.0002
Barium	mg/L	0.135		0.134	0.142	0.001
Beryllium	mg/L	<0.0001		<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.0005		0.0002	<0.001	0.0001
Boron	mg/L	0.003		<0.005	<0.005	0.004
Cadmium	mg/L	0.00003		0.00003	0.00002	0.00001
Calcium	mg/L	56.3		56.1	55.3	0.05
Chromium	mg/L	<0.0005		<0.0004	0.0006	0.0004
Cobalt	mg/L	<0.0001		0.0001	0.00009	0.00002
Copper	mg/L	<0.001		0.001	<0.001	0.001
Iron	mg/L	<0.05		0.13	0.079	0.01
Lead	mg/L	<0.0001		0.0002	0.0001	0.0001
Lithium	mg/L	0.001		0.001	0.001	0.001
Magnesium	mg/L	20.2		19.5	19.6	0.05
Manganese	mg/L	<0.005		0.0042	0.0045	0.0001
Molybdenum	mg/L	0.001		0.00139	0.0013	0.00002
Nickel	mg/L	<0.0005		<0.001	0.001	0.001
Potassium	mg/L	0.8		0.8	0.6	0.1
Sulfur	mg/L	9.8		9.3	9.4	0.1
Selenium	mg/L	0.0005		<0.0006	<0.0006	0.0006
Strontium	mg/L	0.086		0.074	0.08	0.001
Silver	mg/L	<0.00001		<0.00001	<0.00001	0.00001
Silicon	mg/L	2.29		2.17	2.29	0.05
Sodium	mg/L	0.5		1.16	1.07	0.02
Thallium	mg/L	<0.00005		<0.00001	<0.00001	0.00001
Tin	mg/L	<0.001		<0.0001	<0.0001	0.0001
Titanium	mg/L	0.0018		0.0033	0.0016	0.0001
Uranium	mg/L	0.0028		0.0024	0.0024	0.0004
Vanadium	mg/L	0.0002		0.00038	0.0004	0.00004
Zinc	mg/L	0.009		0.012	0.012	0.001
Mercury	mg/L			<0.01	<0.01	0.01

Table. Appendix Summary of Station RAU#5 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
Total Metals						
Aluminum	mg/L	0.111	0.005	0.078	0.174	0.005
Antimony	mg/L	0.0007	0.0007	0.0006	0.0008	0.0002
Arsenic	mg/L	0.0006	0.0004	0.0008	0.0008	0.0002
Barium	mg/L	0.135	0.11	0.112	0.132	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	<0.001	0.0001
Boron	mg/L	0.003	<0.002	<0.005	<0.005	0.004
Cadmium	mg/L	0.00073	0.00026	0.00044	0.00076	0.00001
Calcium	mg/L	82.8	70.8	69.5	82.2	0.05
Chromium	mg/L	0.0008	<0.0005	0.0006	0.0009	0.0004
Cobalt	mg/L	0.0002	<0.0001	0.0002	0.0004	0.00002
Copper	mg/L	0.001	0.002	0.001	0.002	0.001
Iron	mg/L	0.37	<0.05	0.31	0.55	0.01
Lead	mg/L	0.0003	<0.0001	0.0004	0.0007	0.0001
Lithium	mg/L	0.003	0.003	0.002	0.002	0.001
Magnesium	mg/L	30.4	26.8	27.2	31.2	0.05
Manganese	mg/L	0.023	<0.005	0.0272	0.0288	0.0001
Molybdenum	mg/L	0.007	0.007	0.00583	0.007	0.00002
Nickel	mg/L	0.012	0.0079	0.009	0.018	0.001
Potassium	mg/L	1.1	1	1	0.9	0.1
Sulfur	mg/L	13.7	11.2	9.7	13.4	0.1
Selenium	mg/L	0.003	0.0033	0.0024	0.0019	0.0006
Strontium	mg/L	0.211	0.181	0.151	0.508	0.001
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.00001
Silicon	mg/L	3.05	2.7	2.65	3.1	0.05
Sodium	mg/L	0.9	0.7	1.36	1.34	0.02
Thallium	mg/L	<0.00005	<0.00005	0.00002	0.00003	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	<0.0001	0.0001
Titanium	mg/L	0.0052	0.0011	0.0029	0.0074	0.0001
Uranium	mg/L	0.0126	0.0104	0.0089	0.0121	0.0004
Vanadium	mg/L	0.0011	0.0004	0.00092	0.0014	0.00004
Zinc	mg/L	0.083	0.055	0.049	0.106	0.001
Mercury	mg/L			<0.01	<0.01	0.01

Table. Appendix Summary of Station RAU#6 Analysis Data.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
Total Metals						
Aluminum	mg/L	<0.005	No	<0.005	0.005	0.005
Antimony	mg/L	<0.0002	Sample	<0.0002	<0.0002	0.0002
Arsenic	mg/L	<0.0002		<0.0002	<0.0002	0.0002
Barium	mg/L	0.084		0.065	0.081	0.001
Beryllium	mg/L	<0.0001		<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.0005		<0.0001	<0.001	0.0001
Boron	mg/L	0.004		<0.005	<0.005	0.004
Cadmium	mg/L	<0.00001		<0.00001	<0.00001	0.00001
Calcium	mg/L	37.5		34.7	34.7	0.05
Chromium	mg/L	<0.0005		0.0004	0.0004	0.0004
Cobalt	mg/L	0.0002		<0.00002	0.00003	0.00002
Copper	mg/L	<0.001		<0.001	<0.001	0.001
Iron	mg/L	<0.05		0.01	<0.01	0.01
Lead	mg/L	<0.0001		0.0003	<0.0001	0.0001
Lithium	mg/L	<0.001		<0.001	<0.001	0.001
Magnesium	mg/L	14.4		13.3	13.5	0.05
Manganese	mg/L	<0.005		0.0001	0.0014	0.0001
Molybdenum	mg/L	0.002		0.00158	0.0021	0.00002
Nickel	mg/L	<0.0005		<0.001	<0.001	0.001
Potassium	mg/L	<0.4		0.1	<0.1	0.1
Sulfur	mg/L	2.2		2	2	0.1
Selenium	mg/L	0.0006		<0.0006	<0.0006	0.0006
Strontium	mg/L	0.025		0.02	0.023	0.001
Silver	mg/L	<0.00001		<0.00001	<0.00001	0.00001
Silicon	mg/L	1.17		1.07	1.16	0.05
Sodium	mg/L	<0.4		0.92	0.7	0.02
Thallium	mg/L	<0.00005		<0.00001	<0.00001	0.00001
Tin	mg/L	<0.001		<0.0001	<0.0001	0.0001
Titanium	mg/L	<0.0005		0.0003	<0.0004	0.0001
Uranium	mg/L	0.0024		0.002	0.0019	0.0004
Vanadium	mg/L	<0.0001		0.00008	0.0001	0.00004
Zinc	mg/L	0.004		0.007	0.006	0.001
Mercury	mg/L				n/s	0.01

Table. Appendix Summary of Station RAU#7 Analysis Data.

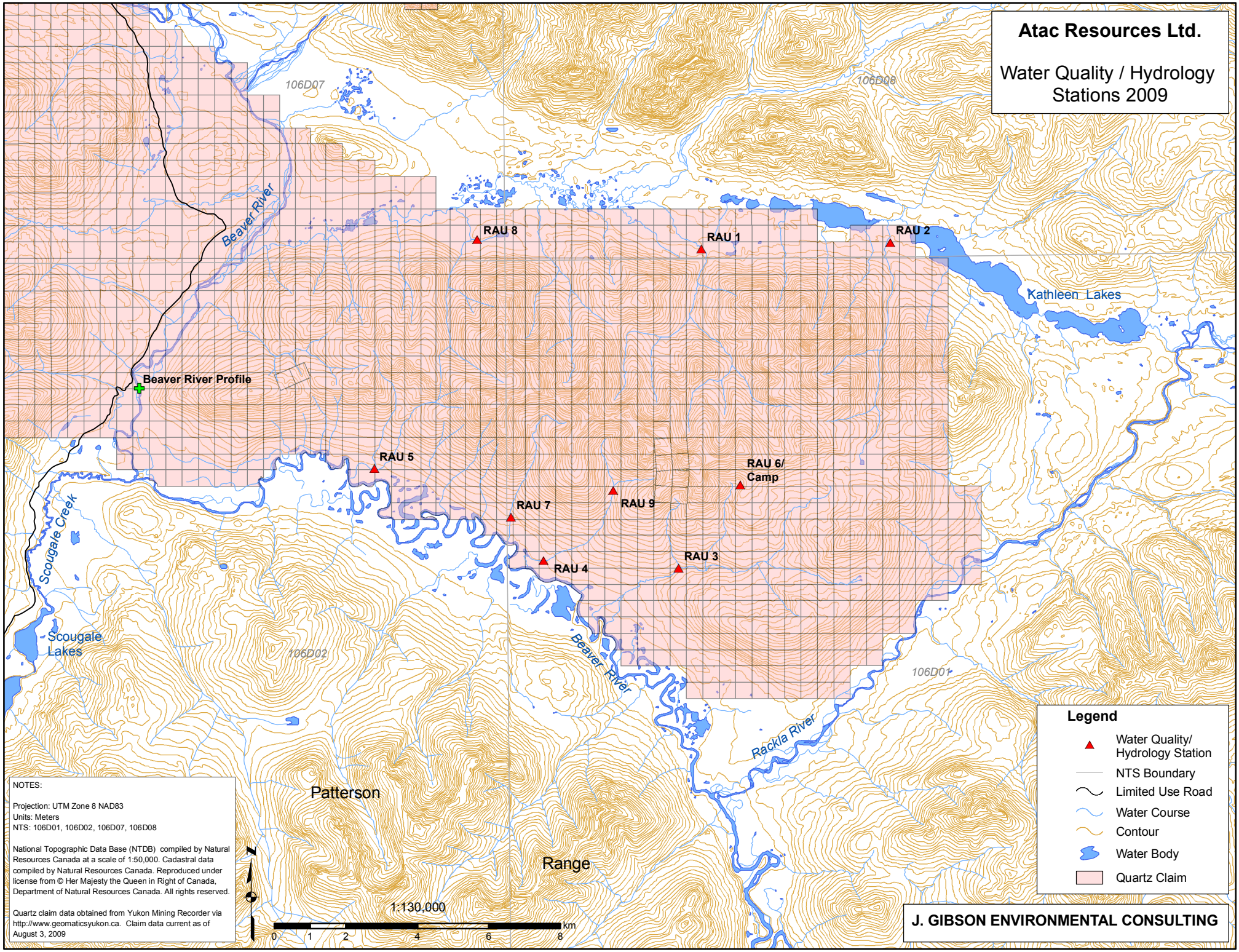
Parameter	Unit	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
Total Metals						
Aluminum	mg/L	0.032	<0.01	0.038	0.007	0.005
Antimony	mg/L	<0.0002	<0.0004	<0.0002	<0.0002	0.0002
Arsenic	mg/L	0.0002	<0.0004	0.0003	0.0002	0.0002
Barium	mg/L	0.168	0.18	0.144	0.176	0.001
Beryllium	mg/L	<0.0001	<0.0002	<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.001	<0.0001	<0.001	0.0001
Boron	mg/L	<0.002	<0.004	<0.005	<0.005	0.004
Cadmium	mg/L	0.00003	0.00004	0.00004	0.00002	0.00001
Calcium	mg/L	42.5	44.7	39.7	42.9	0.05
Chromium	mg/L	<0.0005	<0.001	0.0004	0.0005	0.0004
Cobalt	mg/L	0.0001	<0.0002	0.00006	0.00004	0.00002
Copper	mg/L	<0.001	<0.002	<0.001	<0.001	0.001
Iron	mg/L	<0.05	<0.1	0.07	0.013	0.01
Lead	mg/L	0.0001	<0.0002	0.0015	0.0001	0.0001
Lithium	mg/L	<0.001	<0.002	<0.001	<0.001	0.001
Magnesium	mg/L	22.1	23	20.7	22.9	0.05
Manganese	mg/L	<0.005	<0.01	0.01	0.0009	0.0001
Molybdenum	mg/L	<0.001	<0.002	0.00014	0.0002	0.00002
Nickel	mg/L	<0.0005	<0.001	<0.001	<0.001	0.001
Potassium	mg/L	<0.4	<0.8	0.1	<0.1	0.1
Sulfur	mg/L	10.2	11	8.1	10.4	0.1
Selenium	mg/L	<0.0002	<0.0004	<0.0006	<0.0006	0.0006
Strontium	mg/L	0.042	0.046	0.035	0.044	0.001
Silver	mg/L	<0.00001	0.00007	<0.00001	<0.00001	0.00001
Silicon	mg/L	1.81	1.9	1.57	1.93	0.05
Sodium	mg/L	<0.4	<0.8	0.96	0.89	0.02
Thallium	mg/L	<0.00005	<0.0001	<0.00001	<0.00001	0.00001
Tin	mg/L	<0.001	<0.002	<0.0001	<0.0001	0.0001
Titanium	mg/L	0.002	0.001	0.0018	<0.0004	0.0001
Uranium	mg/L	0.0013	0.001	0.0011	0.0014	0.0004
Vanadium	mg/L	0.0003	0.0002	0.00035	0.0002	0.00004
Zinc	mg/L	0.008	0.02	0.008	0.012	0.001
Mercury	mg/L			<0.01	<0.01	0.01

Table. Appendix Summary of Station RAU#8 Analysis Data.

Parameter	Unit	Aug-08	Oct-08	Jun-09	Jul-09	Detection Limit
Total Metals						
Aluminum	mg/L	0.033	0.126	0.089	0.008	0.005
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	mg/L	0.0003	0.0004	0.0004	0.0004	0.0002
Barium	mg/L	0.171	0.157	0.16	0.2	0.001
Beryllium	mg/L	<0.0001	<0.0001	<0.00004	<0.00004	0.00004
Bismuth	mg/L	<0.0005	<0.0005	<0.0001	<0.001	0.0001
Boron	mg/L	<0.002	<0.002	<0.005	<0.005	0.004
Cadmium	mg/L	0.00014	0.00017	0.00018	0.00014	0.00001
Calcium	mg/L	45.3	43.8	38.7	46.2	0.05
Chromium	mg/L	<0.0005	0.0005	0.0005	0.0005	0.0004
Cobalt	mg/L	<0.0001	0.0001	0.00013	0.00005	0.00002
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	0.001
Iron	mg/L	<0.05	0.2	0.16	0.022	0.01
Lead	mg/L	0.0002	0.001	0.0009	0.0002	0.0001
Lithium	mg/L	<0.001	0.001	<0.001	<0.001	0.001
Magnesium	mg/L	16.8	16.8	13.6	17.2	0.05
Manganese	mg/L	<0.005	0.053	0.012	0.0041	0.0001
Molybdenum	mg/L	<0.001	<0.001	0.0006	0.0007	0.00002
Nickel	mg/L	0.0014	0.0023	0.002	0.002	0.001
Potassium	mg/L	<0.4	<0.4	0.2	0.2	0.1
Sulfur	mg/L	8.1	7.3	5.2	8.8	0.1
Selenium	mg/L	0.0008	0.0009	<0.0006	0.0007	0.0006
Strontium	mg/L	0.055	0.054	0.04	0.056	0.001
Silver	mg/L	<0.00001	0.00001	<0.00001	<0.00001	0.00001
Silicon	mg/L	1.36	1.53	1.22	1.27	0.05
Sodium	mg/L	<0.4	<0.4	0.89	0.87	0.02
Thallium	mg/L	<0.00005	<0.00005	<0.00001	<0.00001	0.00001
Tin	mg/L	<0.001	<0.001	<0.0001	<0.0001	0.0001
Titanium	mg/L	0.0019	0.004	0.0026	<0.0004	0.0001
Uranium	mg/L	0.003	0.0028	0.0021	0.0036	0.0004
Vanadium	mg/L	0.0002	0.0006	0.00036	0.0002	0.00004
Zinc	mg/L	0.038	0.05	0.053	0.04	0.001
Mercury	mg/L			<0.01	<0.01	0.01

Table. Appendix Summary of Station RAU#9 Analysis Data.

Parameter	Unit	Jul-09	Detection Limit
pH (field)	ru	nr	
pH (lab)	ru	8.23	
Conductivity (lab)	uS/cm	348	1
Water temperature	C	4	
Flow Volume(field)	cms	0.019	
Ammonia -N	mg/L	0.01	0.005
Orthophosphate -P	mg/L	<0.01	0.01
Chloride	mg/L	12.3	0.02
Nitrate - N	mg/L	0.14	0.01
Nitrite - N	mg/L	0.09	0.01
Sulphate (S04)	mg/L	23	0.05
T.Suspended Solids	mg/L	<2	1
T.Dissolved Solids	mg/L	230	5
Hardness (as CaC03)	mg/L	189	
Alkalinity (as CaC03)	mg/L	174	5
Organic Carbon-Total	mg/L	0.9	0.05
Cyanide - Total	mg/L	<0.001	0.001


Atac Resources Ltd.
Water Quality / Hydrology Stations 2009
106D07
106D08
106D02
106D01
Beaver River
Beaver River Profile
RAU 8
RAU 1
RAU 2
Kathleen Lakes
RAU 5
RAU 6/ Camp
RAU 7
RAU 9
RAU 4
RAU 3
Scougale Creek
Scougale Lakes
Rackla River
Patterson
Range
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 106D01, 106D02, 106D07, 106D08
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of August 3, 2009
N
1:130,000
0 1 2 4 6 8 km
Legend
Water Quality/ Hydrology Station
NTS Boundary
Limited Use Road
Water Course
Contour
Water Body
Quartz Claim
J. GIBSON ENVIRONMENTAL CONSULTING

Bodycote TESTING GROUP

Control Number **A094668**

Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Bodycote location and proper sampling protocol

Billing Address:		**Copy of Report To:**	**Copy of Invoice:** ☐
Company:		Company:	Mail Invoice to this address for approval ☐
Address:	J. Gibson & Associates Box 20111 Whitehorse, YT Y1A 7A2	Address:	
QA/QC Report ☐			
Attention:		Attention:	
Phone:	John Gibson	Phone:	
Fax:	(867)633-4522	Fax:	
Cell:	(867)668-6895	Cell:	LOT# 695650
e-mail:		e-mail:	

Report Results: Fax ☐ Mail ☒ Courier ☒ e-mail ☐ e-Service ☐

Information to be included on Report and Invoice

Project ID: ATAC RESOURCES.
Project Name: RAU CLAIMS.
Project Location:
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID: 6646

Rush Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH required on: All analysis ☐ or As indicated ☐

Date Required: _____
Signature: _____
Bodycote Authorization: _____

Sample Custody (Please Print)
Sampled by: J. GIBSON
Company Signature

I authorize Bodycote to proceed with the work indicated on this form:
Date: Aug 3/09 Initial:

Received by: DS Sample Temp. °C
Waybill # Date: Aug 4/09
Company: City Cour. Time: 2:25pm

Special Instructions / Comments

RCHEM = pH, EC, HARDT, ALKT, SO4, NH4, N2, N3, TSS, TDS, CL, TP.

PLSE DO TOC, NH4 EVEN IF TIME EXPIRED TK.

Please indicate which regulations you are required to meet: _____

FOR LAB USE ONLY
Condition of containers / coolers upon arrival at lab

☐ Check here if Bodycote is required to report results directly to a regulatory body (Please include contact information)

☐ Check here if you're testing POTABLE WATER for **HUMAN CONSUMPTION.**

	Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	TN21	TN21 TH5	CN1	TOC	Enter tests above (✓ relevant samples below)
1	RAU #1	SURFACE	-	JULY31	H2O	Grab	6	✓	✓	✓	✓	✓	
2	RAU #2	↓	-	↓	↓	↓	6	✓	✓	✓	✓	✓	
3	RAU #3		-				6	✓	✓	✓	✓	✓	
4	RAU #4		-				6	✓	✓	✓	✓	✓	
5	RAU #5		-				6	✓	✓	✓	✓	✓	
6	RAU #6		-				3	✓	✓	✓			
7	RAU #7		-				6	✓	✓	✓	✓	✓	
8	RAU #8		-				6	✓	✓	✓	✓	✓	
9	RAU #9		-				6	✓	✓	✓	✓	✓	
10			-										
11	QC09-01		-				2		✓	✓			
12	QC09-02		-				2		✓	✓			
13			-										
14	* MOHAS + NITRIC, TN21 FIELD FILTERED, TH5 + NITRIC												
15	CN + NaOH, TOC NOT PRESERVED.												

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

Form No. 0006 (Rev. 04/07)

ATAC RESOURCES LTD

RAU CLAIMS

Baseline Water Quality Survey

October 2009

J.Gibson Env. Consulting ***Whitehorse, Yukon***

Atac Resources Ltd requested baseline water quality / hydrology surveys be conducted on the surface water tributaries draining the area of the RAU Claims north of Keno City, Yukon.

The RAU Claims are located near the confluence of the Beaver River and the Rackla River. Streams draining south of the claims are tributaries to the Beaver River with streams draining north and west of the claims being tributaries to the Rackla River. Immediately north of the claims are the Kathleen Lakes as part of the Rackla River drainage.
The confluence of the Beaver and Rackla Rivers is located to the south of the claims.

An active big game outfitter's camp is located on the Kathleen Lake system.

Water quality / hydrology survey done in October 2009 is the fifth survey, following surveys in August and October, 2008 and June and July, 2009.

Exploration activity on the RAU Claims in 2009 consists of a 15 person exploration camp with two diamond drills in operation. Operations had ceased before the October 28, 2009 survey.

The exploration camp and all survey sites were accessed by helicopter.

The exploration camp had been relocated from Station RAU #6 to a tributary to the west near Station RAU #9.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals with field measurements for pH, water temperature and flow volumes.

All 2009 surveys include the addition of Total Cyanide, Total Mercury and Total Organic Carbon at all stations with exception of RAU #6 (drinking water supply).

Sample Locations

Nine water quality sample sites were active in July, 2009 on tributary streams draining the RAU Claims (see attached locations map).

Station RAU #9 was established July, 2009 to obtain water quality data closer to the mineralized zone and active exploration drilling. The station is located upstream of Station RAU #4 but below the stream forks. An active drill water sump is located 15 meters downstream of the site.

With the exploration camp relocation from RAU #6 to near RAU #9 in September 2009, RAU #9 becomes the station monitored for drinking water quality. Station RAU #6 was not sampled in October, 2009 – for other than drinking water it is a duplication of RAU #3.

Station RAU #10 was established in October, 2009 on the Beaver River upstream of it's confluence with the Rackla River. This is a receiving water station downstream of the tributaries draining the south slope of the claim area.

Updated Sample station designations, coordinates and elevations are:

Station #	UTM Coordinates	Elevation (m)
RAU #1	E 529734 N 7125299	747
RAU #2	E 535018 N 7125488	750
RAU #3	E 529092 N 7116373	787
RAU #4	E 525316 N 7116594	659
RAU #5	E 520576 N 7119159	655
RAU #6	E 530817 N 7118701	no data
RAU #7	E 524405 N 7117800	702
RAU #8	E 523448 N 7125565	718
RAU #9	E 527261 N 7118550	792
RAU #10	Beaver River u/s confluence with Rackla River	
Beaver River Xing	E 514008 N 7121403	no data

UTM Zone 8 NAD83

An updated station site map is included.

Station coordinates and elevations are for helicopter landing sites. Due to the topography and thick vegetation it was often necessary to located / construct landing sites up to100 meters distance from sample sites.
Landing sites were re marked in July 2009 with numbered station signs visible from the air.

Sample Analysis Parameters

Stations RAU #1 through #9 were sampled for routine chemistry, total metals, dissolved metals, total cyanide, total mercury and total organic carbon.
Beaver River receiving waters station RAU #10 was sampled for routine chemistry, total and dissolved metals.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total mercury, total and dissolved metal samples were preserved with nitric acid immediately after sampling.

Total cyanide samples were preserved with sodium hydroxide, total organic carbon with hydrochloric immediately after sampling.

Quality control samples (Duplicates) for total metals and dissolved metals were taken at Station RAU #2 in October, 2009.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Bodycote T.G. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH were taken with an Oakton P35S multi parameter instrument. Water temperatures were taken with a digital thermometer.

Stream flow volumes were measured with a Price AA velocity meter and cross sectional area calculations.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. Routine Chemistry, Total Cyanide, Total Organic Carbon – laboratory analysis and field measurement results

Table 2. Total Metals ICP- MS and Total Mercury– laboratory analysis results

Table 3. Dissolved Metals ICP – MS laboratory analysis results

Table 4. Quality Control Samples – laboratory analysis results for Total and Dissolved Metals Duplicate Samples at Station RAU #2

Table 5. Camp Drinking Water Supply Station RAU #9.

Table 4. Quality Control Samples October 2009, Rau Claims

Total and Dissolved Metals Analysis - Duplicate Samples

Parameter	Units	RAU#2	RAU #2 (Dupl)	RAU #2	RAU #2 (Dupl)
		Total Metals		Dissolved Metals	
Aluminum	mg/L	0.014	0.015	<0.005	<0.005
Antimony	mg/L	<0.0002	<0.0002	0.0006	0.0007
Arsenic	mg/L	0.0004	0.0004	0.0005	0.0004
Barium	mg/L	0.05	0.049	0.049	0.049
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.005	<0.005	<0.004	<0.004
Cadmium	mg/L	0.00002	0.00001	<0.00001	<0.00001
Calcium	mg/L	63.4	63.2	60.6	61.2
Chromium	mg/L	0.0005	0.0005	0.0004	0.0005
Cobalt	mg/L	0.00011	0.00011	0.0001	0.0001
Copper	mg/L	<0.001	<0.001	<0.001	<0.001
Iron	mg/L	0.047	0.051	<0.01	<0.01
Lead	mg/L	0.0001	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.006	0.006	0.005	0.005
Magnesium	mg/L	16.4	16.4	15.8	16
Manganese	mg/L	0.0174	0.0167	0.0134	0.0134
Molybdenum	mg/L	0.0005	0.0005	0.0005	0.0005
Nickel	mg/L	0.002	0.002	0.002	0.001
Potassium	mg/L	0.4	0.4	0.5	0.5
Sulfur	mg/L	21.2	20.7	20	20
Selenium	mg/L	0.0008	0.0006	0.0008	0.0008
Strontium	mg/L	0.133	0.128	0.122	0.125
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Silicon	mg/L	3.12	3.1	2.92	2.94
Sodium	mg/L	2.36	2.27	2.2	2.2
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Titanium	mg/L	0.003	0.005		
Uranium	mg/L	0.0006	0.0006	0.0006	0.0006
Vanadium	mg/L	<0.0001	0.0001	<0.0001	0.0001
Zinc	mg/L	0.008	0.003	0.002	0.002
Mercury	mg/L	<0.01	ns		

Denote >10% variation between samples

Table 5. RAU Claims - Camp Drinking Water Supply

Parameter		Camp Supply RAU #9	DWQ* Guideline MAC's
pH	ru	8.42	6 to 8.5
Chloride	mg/L	0.1	<250
Nitrite	mg/L	0.16	1
Nitrate	mg/L	0.2	10
T.Dissolved Solids	mg/L	226	500
Hardness as CaC03	mg/L	200	<500
Total Metals			
Aluminum	mg/L	0.013	
Antimony	mg/L	<0.0002	0.006
Arsenic	mg/L	0.0003	0.01
Barium	mg/L	0.242	1
Boron	mg/L	<0.005	5
Cadmium	mg/L	0.00006	0.005
Calcium	mg/L	51.8	
Chromium	mg/L	0.0005	0.05
Cobalt	mg/L	0.00006	
Copper	mg/L	<0.001	1
Iron	mg/L	0.016	0.3
Lead	mg/L	0.0001	0.01
Lithium	mg/L	<0.001	
Magnesium	mg/L	17.3	
Manganese	mg/L	0.0016	0.05
Molybdenum	mg/L	0.001	
Sulfur	mg/L	7.2	
Selenium	mg/L	<0.0006	0.01
Strontium	mg/L	0.055	
Silicon	mg/L	1.94	
Sodium	mg/L	0.98	<200
Titanium	mg/L	0.01	
Uranium	mg/L	0.0014	0.02
Zinc	mg/L	0.01	<5

DWQ* = Canadian Drinking Water Quality Guideline
MAC = Maximum Acceptable Concentration

Listed with the analysis data are the laboratory detection limits for each parameter.

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic ***Guidelines*** for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to CCME – ***Canadian Water Quality Guidelines.***

All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by EXOVA of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Quality Control

Quality control duplicate samples at Station RAU #2 are listed in Table 4 (total and dissolved metals). Variations in analysis results between duplicate samples of greater than 10% are highlighted.

Discussion

Hydrology

The October 2009 survey was done with tributary streams in a "maintenance" flow stage as a result of fall precipitation with increased volumes compared to flow measured in July 2009.

Flows in the Beaver and Rackla Rivers were also similar or slightly higher than measured in July 2009.

All tributary streams with exception of RAU#8 were under ice conditions. Ice conditions varied from minimal shore ice (RAU #4) to complete ice cover (RAU #2). Station RAU #1 had an ice shelf greater than 1 meter thick – possibly the result of downstream blockage / ice buildup and then thaw.

Measured flow volumes for 2008 and 2009 for each station are listed below.

Measured Stream Flow Volumes – RAU Claims 2008/09					
Station	**Flow Volume (cubic meters/second)**				
	Aug 2008	**Oct 2008**	**Jun 2009**	**Jul 2009**	**Oct2009**
RAU #1	**0.502**	**0.734**	**0.747**	**0.129**	**0.147**
RAU #2	**0.234**	**0.430**	**0.287**	**0.053**	**nr**
RAU #3	**0.493**	**0.690**	**0.461**	**0.129**	**0.192**
RAU #4	**0.043**	**nr**	**0.066**	**0.069**	**0.079**
RAU #5	**0.038**	**nr**	**0.023**	**0.022**	**nr**
RAU #6	**0.025 Estimated**		**0.010 E**	**0.003**	**nr**
RAU #7	**0.027**	**0.042**	**0.039**	**0.017**	**0.024**
RAU #8	**0.074**	**nr**	**0.374**	**0.087**	**0.108**
RAU#9	**nr**	**nr**	**nr**	**0.019**	**nr**
Beaver River @ Trail Xing				**11.85**	**14.54**

Flow volume calculations are contained in Appendix 2.

Routine Chemistry

Field measurement and lab analysis results for routine chemistry are listed in Table 1.

Sampling and laboratory analysis for parameters total cyanide, total mercury and total organic carbon was begun in June 2009 addition to parameters from previous events.

Total cyanide and total organic carbon analysis results are listed with routine chemistry parameters in Table 1, total mercury analysis results with total metals in Table 2.

Analysis results for all stations for all parameters measured meet the ***Drinking Water Guideline's MA*C's.**

Analysis results for all parameters with the exception of Nitrite – N at all tributary stations RAU #1 - #5 and RAU #7 - #9 meet the ***CCME Guidelines*** for the Protection of Aquatic Life.

Nitrite – N values in October 2009 ranged from 0.12 mg/L to 0.23 mg/L against an ***Aquatic Guideline*** concentration of 0.06 mg/L. Station RAU #5 has Nitrite – N values above the ***Aquatic*** *Guideline* concentration for all five surveys.

The presence of Nitrite – N in the absence of any industrial pollutants may be the result of nitrification, oxidation of ammonia by bacteria. The pH values for all sites are near/ above the optimum oxidation pH of 8.0. The rate of nitrification would be inhibited by the low water temperature.
Nitrate – N was also detected at all stations with values ranging from 0.15 to 0.36 mg/L this survey. Nitrate levels show an increase in range over prior surveys.

Total Hardness as CaC03 values range from 196 – 326 mg/L, giving a continued hardness rating of "hard to very hard". The range of hardness values are consistent with previous results.

Total cyanide was measured at the detection limit (0.001 mg/L) at all stations this survey as they were in June 2009. The July 2009 survey had total cyanide below the detection limits at all stations.
Total cyanide levels are well below ***Drinking Water*** and ***Aquatic Guideline*** levels.

Total organic carbon values range from 0.8 to 2.1 mg/L. Levels are consistent with previous measurements.

Metals

The laboratory analytical report notes that some total metal results are less than dissolved metal concentrations but are verified and are within the expected measurement uncertainty.

Total metals analysis results are listed in Table 2, dissolved metals analysis results in Table 3.

Total metals concentrations do not exceed the ***Drinking Water Guidelines*** for any measured parameter.

Total metals concentrations exceeded ***Aquatic Guideline*** levels for selenium (0.001 mg/L) at RAU #1 (0.0039 mg/L), RAU #3 (0.0016 mg/L), RAU#5 (0.0032 mg/L), and RAU #8 (0.0014 mg/L).

Total metal concentrations exceed ***Aquatic Guideline*** levels for zinc (0.03 mg/L) at RAU#5 (0.077 mg/L) and RAU#8 (0.055 mg/L).

Beaver River receiving water station RAU #10 met all ***Drinking Water*** and ***Aquatic Guideline*** limits for all parameters measured.

Camp Drinking Water Supply

The exploration camp was relocated in late 2009 to the west fork above Station RAU #9. Water quality analysis results for Station RAU #9 along with ***Canadian Drinking Water Quality Guideline*** concentrations (maximum acceptable concentrations / MAC's) are listed in Table 5. Supply water meets all Guideline concentrations.

Summary

The October 2009 baseline survey was conducted at flow stage in tributary streams and the Beaver River slightly higher than those measured in July 2009. All sites with exception of RAU #8 were under ice conditions. The Beaver River downstream of Scougale Creek was under total ice cover (lower gradient), while upstream of Scougale creek was relatively ice free.

All stations were access during the October 2009 survey, with an addition of the Beaver River Receiving Water Station RAU #10 being established.

Routine chemistry, total metals and dissolved metals analysis indicate tributary streams draining the RAU claims continue to have moderate to low concentrations for parameters tested.

The October 2009 analysis results are consistent with those of prior survey with minor variations in levels of nitrite, total selenium and zinc most evident.

Concentrations of parameters that do exceed ***Drink Water Quality or CCME-Aquatic Guideline*** values are generally low level concentrations slightly elevated above ***Guideline*** levels.

Laboratory Analytical Reports are attached in Appendix 1.

Flow volume discharge calculation sheets are attached in Appendix 2.

Data summaries for each station are contained in Appendix 3. With a fifth survey completed parameter maximum, minimum and mean concentrations are now included.

Site photographs are included in Appendix 3.

A P P E N D I X 1

LABORATORY ANALYTICAL REPORTS

October 2009

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#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Approval Status:	Approved
	Box 20111	Name:	RAU Claims	Invoice Frequency:	by Lot
	Whitehorse, YT, Canada	Location:		COD Status:	
	Y1A 7A2	LSD:		Control Number:	A136457
Attn:	John Gibson	P.O.:		Date Received:	Oct 30, 2009
Sampled By:	J. Gibson	Acct code:		Date Reported:	Nov 5, 2009
Company:				Report Number:	1270071

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20111 Whitehorse, Yukon Territory Y1A 7A2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: luditegibson@yahoo.ca	On [Lot Verification] send (COA) by Email - Multiple Reports On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report

Notes To Clients:

- Samples 1,2,4, and 5-10 were analyzed for Ammonia after holding time had expired.
- Some total metal results were less than dissolved metal results for lot 710945. The results were verified and are within expected measurement uncertainty.

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Sample Custody

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J. Gibson	Acct code:	
Company:			

Lot ID:	**710945**
Control Number:	A136457
Date Received:	Oct 30, 2009
Date Reported:	Nov 5, 2009
Report Number:	1270071

Sample Disposal Date: December 05, 2009

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	$ 2.50 per sample
Storage for an additional 60 days	$ 5.00 per sample
Storage for an additional 90 days	$ 7.50 per sample

☐ Return Sample, collect, to the address below via:

- ☐ Greyhound
- ☐ DHL
- ☐ Purolator
- ☐ Other (specify) _____

Name _____
Company _____
Address _____
_____
Phone _____
Fax _____

Signature _____

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E: Surrey@exova.com
W: www.exova.com

Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **710945**
Control Number: A136457
Date Received: Oct 30, 2009
Date Reported: Nov 5, 2009
Report Number: 1270071

		Reference Number	710945-1	710945-2	710945-3	
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
		Sample Time	11:00	NA	NA	
		Sample Location				
		Sample Description	RAU #1	RAU #2	RAU #2 Duolicate	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Titanium	Dissolved	mg/L	<0.01	<0.010	<0.01	0.01
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0006	0.0006	0.0007	0.0002
Arsenic	Dissolved	mg/L	0.0002	0.0005	0.0004	0.0002
Barium	Dissolved	mg/L	0.083	0.049	0.049	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00008	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0006	0.0004	0.0005	0.0004
Cobalt	Dissolved	mg/L	0.00007	0.0001	0.0001	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	0.005	0.005	0.001
Manganese	Dissolved	mg/L	0.0030	0.0134	0.0134	0.0002
Molybdenum	Dissolved	mg/L	0.0017	0.0005	0.0005	0.0001
Nickel	Dissolved	mg/L	0.001	0.002	0.001	0.001
Selenium	Dissolved	mg/L	0.0044	0.0008	0.0008	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.121	0.122	0.125	0.001
Sulfur	Dissolved	mg/L	14.7	20.0	20.0	0.2
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0021	0.0006	0.0006	0.0004
Vanadium	Dissolved	mg/L	0.0003	<0.0001	0.0001	0.0001
Zinc	Dissolved	mg/L	0.005	0.002	0.002	0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01		0.01
Aluminum	Total	mg/L	0.018	0.014	0.015	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	<0.0002	0.0004	0.0004	0.0002
Barium	Total	mg/L	0.083	0.050	0.049	0.001

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
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	Reference Number	710945-1	710945-2	710945-3	
	Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
	Sample Time	11:00	NA	NA	
	Sample Location				
	Sample Description	RAU #1	RAU #2	RAU #2 Duolicate	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00008	0.00002	0.00001	0.00001
Calcium	Total	mg/L	65.2	63.4	63.2	0.05
Chromium	Total	mg/L	0.0005	0.0005	0.0005	0.0004
Cobalt	Total	mg/L	0.00008	0.00011	0.00011	0.00002
Copper	Total	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Total	mg/L	0.011	0.047	0.051	0.01
Lead	Total	mg/L	0.0002	0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.002	0.006	0.006	0.001
Magnesium	Total	mg/L	8.02	16.4	16.4	0.05
Manganese	Total	mg/L	0.0055	0.0174	0.0167	0.0002
Molybdenum	Total	mg/L	0.0017	0.0005	0.0005	0.0001
Nickel	Total	mg/L	0.002	0.002	0.002	0.001
Phosphorus	Total	mg/L	<0.01	<0.01	<0.01	0.01
Potassium	Total	mg/L	0.2	0.4	0.4	0.1
Selenium	Total	mg/L	0.0039	0.0008	0.0006	0.0006
Silicon	Total	mg/L	2.98	3.12	3.10	0.05
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium	Total	mg/L	1.64	2.36	2.27	0.02
Strontium	Total	mg/L	0.126	0.133	0.128	0.001
Sulfur	Total	mg/L	15.6	21.2	20.7	0.1
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0021	0.0006	0.0006	0.0004
Vanadium	Total	mg/L	0.0002	<0.0001	0.0001	0.0001
Zinc	Total	mg/L	0.007	0.008	0.003	0.001
Zirconium	Total	mg/L	<0.0001	0.0001	<0.0001	0.0001
Titanium	Total	mg/L	0.012	0.003	0.005	0.001
Routine Water						
pH	@ 25 °C		8.03	8.02		
Electrical Conductivity		µS/cm at 25 C	339	383		1
Calcium	Dissolved	mg/L	63.4	60.6	61.2	0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A136457
	Box 20111	Name:	RAU Claims	Date Received:	Oct 30, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Nov 5, 2009
	Y1A 7A2	LSD:		Report Number:	1270071
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	710945-1	710945-2	710945-3	
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
		Sample Time	11:00	NA	NA	
		Sample Location				
		Sample Description	RAU #1	RAU #2	RAU #2 Duolicate	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Magnesium	Dissolved	mg/L	7.9	15.8	16.0	0.1
Phosphorus	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L	0.4	0.5	0.5	0.1
Silicon	Dissolved	mg/L	2.83	2.92	2.94	0.05
Sodium	Dissolved	mg/L	1.6	2.2	2.2	0.1
Bicarbonate		mg/L	180	190		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	144	154		5
Chloride	Dissolved	mg/L	0.13	0.15		0.02
Nitrate - N	Dissolved	mg/L	0.20	0.23		0.01
Nitrite - N	Dissolved	mg/L	0.14	0.14		0.01
Sulfate (SO4)	Dissolved	mg/L	44.1	59.9		0.6
Hardness	as CaCO3	mg/L	191	216	219	5
Hardness	Total	mg CaCO3/L	196	226		1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A136457
	Box 20111	Name:	RAU Claims	Date Received:	Oct 30, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Nov 5, 2009
	Y1A 7A2	LSD:		Report Number:	1270071
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	710945-1	710945-2	710945-4	
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
		Sample Time	11:00	NA	NA	
		Sample Location				
		Sample Description	RAU #1	RAU #2	RAU #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.2	2.1	1.8	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Ammonia - N		mg/L	<0.01	<0.01	<0.01	
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Solids	Total Dissolved	mg/L	252	262	274	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **710945**
Control Number: A136457
Date Received: Oct 30, 2009
Date Reported: Nov 5, 2009
Report Number: 1270071

			Reference Number	710945-4	710945-5	710945-6	
			Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	RAU #3	RAU #4	RAU #5	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved							
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.01	0.01
Aluminum	Dissolved	mg/L		<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L		0.0006	0.0005	0.0012	0.0002
Arsenic	Dissolved	mg/L		0.0004	0.0019	0.0005	0.0002
Barium	Dissolved	mg/L		0.101	0.132	0.115	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.007	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00004	0.00002	0.00034	0.00001
Chromium	Dissolved	mg/L		0.0006	0.0005	0.0008	0.0004
Cobalt	Dissolved	mg/L		0.00009	0.00006	0.00012	0.00002
Copper	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L		0.03	<0.01	0.05	0.01
Lead	Dissolved	mg/L		<0.0001	0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.002	0.001	0.002	0.001
Manganese	Dissolved	mg/L		0.0049	0.0018	0.0122	0.0002
Molybdenum	Dissolved	mg/L		0.0028	0.0013	0.0067	0.0001
Nickel	Dissolved	mg/L		0.001	<0.001	0.011	0.001
Selenium	Dissolved	mg/L		0.0020	0.0007	0.0033	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L		0.082	0.074	0.177	0.001
Sulfur	Dissolved	mg/L		10.0	9.7	12.4	0.2
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	0.00002	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0030	0.0028	0.0126	0.0004
Vanadium	Dissolved	mg/L		0.0002	0.0002	0.0004	0.0001
Zinc	Dissolved	mg/L		0.003	0.009	0.076	0.001
Zirconium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Metals Total							
Mercury	Total	ug/L		<0.01	<0.01	<0.01	0.01
Aluminum	Total	mg/L		0.021	0.037	0.006	0.005
Antimony	Total	mg/L		<0.0002	<0.0002	0.0007	0.0002
Arsenic	Total	mg/L		0.0006	0.0022	0.0003	0.0002
Barium	Total	mg/L		0.105	0.137	0.116	0.001

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Analytical Report

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J. Gibson	Acct code:	
Company:			

Lot ID:	**710945**
Control Number:	A136457
Date Received:	Oct 30, 2009
Date Reported:	Nov 5, 2009
Report Number:	1270071

		Reference Number	710945-4	710945-5	710945-6
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009
		Sample Time	NA	NA	NA
		Sample Location			
		Sample Description	RAU #3	RAU #4	RAU #5
		Matrix	Water	Water	Water
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.006	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00006	0.00003	0.00044	0.00001
Calcium	Total	mg/L	67.0	56.5	83.0	0.05
Chromium	Total	mg/L	0.0004	0.0004	0.0005	0.0004
Cobalt	Total	mg/L	0.0001	0.0001	0.00011	0.00002
Copper	Total	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Total	mg/L	0.082	0.056	0.072	0.01
Lead	Total	mg/L	<0.0001	0.0002	<0.0001	0.0001
Lithium	Total	mg/L	0.002	0.001	0.002	0.001
Magnesium	Total	mg/L	19.0	21.2	32.1	0.05
Manganese	Total	mg/L	0.0092	0.0054	0.0131	0.0002
Molybdenum	Total	mg/L	0.0029	0.0013	0.0068	0.0001
Nickel	Total	mg/L	0.002	0.001	0.012	0.001
Phosphorus	Total	mg/L	<0.01	<0.01	<0.01	0.01
Potassium	Total	mg/L	1.2	0.6	0.9	0.1
Selenium	Total	mg/L	0.0016	0.0008	0.0032	0.0006
Silicon	Total	mg/L	2.76	2.53	3.02	0.05
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium	Total	mg/L	1.54	0.38	1.45	0.02
Strontium	Total	mg/L	0.087	0.074	0.182	0.001
Sulfur	Total	mg/L	10.7	9.9	13.0	0.1
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	0.00002	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0030	0.0029	0.0127	0.0004
Vanadium	Total	mg/L	0.0002	0.0003	0.0003	0.0001
Zinc	Total	mg/L	0.004	0.013	0.077	0.001
Zirconium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L	0.008	0.012	0.021	0.001
Routine Water						
pH	@ 25 °C		8.22	8.24	7.93	
Electrical Conductivity		µS/cm at 25 C	398	378	539	1
Calcium	Dissolved	mg/L	64.6	55.3	79.7	0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A136457
	Box 20111	Name:	RAU Claims	Date Received:	Oct 30, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Nov 5, 2009
	Y1A 7A2	LSD:		Report Number:	1270071
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	710945-4	710945-5	710945-6	
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #3	RAU #4	RAU #5	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Magnesium	Dissolved	mg/L	18.4	20.8	30.7	0.1
Phosphorus	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L	1.2	0.8	1.1	0.1
Silicon	Dissolved	mg/L	2.57	2.38	2.83	0.05
Sodium	Dissolved	mg/L	1.4	1.0	0.8	0.1
Bicarbonate		mg/L	250	240	350	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	207	196	290	5
Chloride	Dissolved	mg/L	0.12	0.14	0.08	0.02
Nitrate - N	Dissolved	mg/L	0.15	0.36	0.18	0.01
Nitrite - N	Dissolved	mg/L	0.16	0.18	0.23	0.01
Sulfate (SO4)	Dissolved	mg/L	30.1	29	37.1	0.6
Hardness	as CaCO3	mg/L	237	224	326	5
Hardness	Total	mg CaCO3/L	245	228	339	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A136457
	Box 20111	Name:	RAU Claims	Date Received:	Oct 30, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Nov 5, 2009
	Y1A 7A2	LSD:		Report Number:	1270071
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	710945-5	710945-6	710945-7	
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #4	RAU #5	RAU #7	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.1	1.2	0.9	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Ammonia - N		mg/L	<0.01	<0.01	<0.01	
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	4	<2	<2	1
Solids	Total Dissolved	mg/L	266	384	244	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **710945**
Control Number: A136457
Date Received: Oct 30, 2009
Date Reported: Nov 5, 2009
Report Number: 1270071

		Reference Number	710945-7	710945-8	710945-9	
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	RAU #7	RAU #8	RAU #9	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.01	0.01
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0004	0.0004	0.0004	0.0002
Arsenic	Dissolved	mg/L	<0.0002	0.0002	0.0002	0.0002
Barium	Dissolved	mg/L	0.166	0.184	0.236	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00002	0.00020	0.00003	0.00001
Chromium	Dissolved	mg/L	0.0007	0.0007	0.0006	0.0004
Cobalt	Dissolved	mg/L	0.00005	0.00006	0.00006	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Manganese	Dissolved	mg/L	<0.0002	0.0020	0.0008	0.0002
Molybdenum	Dissolved	mg/L	0.0002	0.0006	0.001	0.0001
Nickel	Dissolved	mg/L	<0.001	0.002	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	0.0014	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.038	0.054	0.053	0.001
Sulfur	Dissolved	mg/L	10.5	10.5	6.9	0.2
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0015	0.0043	0.0014	0.0004
Vanadium	Dissolved	mg/L	0.0003	0.0002	0.0002	0.0001
Zinc	Dissolved	mg/L	0.005	0.054	0.004	0.001
Zirconium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Metals Total						
Mercury	Total	ug/L	<0.01	<0.01	<0.01	0.01
Aluminum	Total	mg/L	0.009	0.015	0.013	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0003	0.0004	0.0003	0.0002
Barium	Total	mg/L	0.169	0.188	0.242	0.001

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **710945**
Control Number: A136457
Date Received: Oct 30, 2009
Date Reported: Nov 5, 2009
Report Number: 1270071

	Reference Number	710945-7	710945-8	710945-9	
	Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
	Sample Time	NA	NA	NA	
	Sample Location				
	Sample Description	RAU #7	RAU #8	RAU #9	
	Matrix	Water	Water	Water	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued					
Beryllium Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium Total	mg/L	0.00002	0.00022	0.00006	0.00001
Calcium Total	mg/L	45.1	52.7	51.8	0.05
Chromium Total	mg/L	0.0005	0.0007	0.0005	0.0004
Cobalt Total	mg/L	0.00005	0.00006	0.00006	0.00002
Copper Total	mg/L	<0.001	<0.001	<0.001	0.001
Iron Total	mg/L	<0.01	0.022	0.016	0.01
Lead Total	mg/L	0.0003	0.0003	0.0001	0.0001
Lithium Total	mg/L	<0.001	<0.001	<0.001	0.001
Magnesium Total	mg/L	24.8	20.2	17.3	0.05
Manganese Total	mg/L	0.0012	0.0048	0.0016	0.0002
Molybdenum Total	mg/L	0.0002	0.0006	0.0010	0.0001
Nickel Total	mg/L	<0.001	0.003	<0.001	0.001
Phosphorus Total	mg/L	0.010	<0.01	<0.01	0.01
Potassium Total	mg/L	<0.1	0.2	<0.1	0.1
Selenium Total	mg/L	<0.0006	0.0014	<0.0006	0.0006
Silicon Total	mg/L	2.12	1.74	1.94	0.05
Silver Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium Total	mg/L	1.02	1.01	0.98	0.02
Strontium Total	mg/L	0.040	0.058	0.055	0.001
Sulfur Total	mg/L	10.8	11.2	7.2	0.1
Tellurium Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium Total	mg/L	0.0015	0.0044	0.0014	0.0004
Vanadium Total	mg/L	0.0002	0.0002	0.0001	0.0001
Zinc Total	mg/L	0.007	0.055	0.010	0.001
Zirconium Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium Total	mg/L	0.015	<0.001	0.010	0.001
Routine Water					
pH @ 25 °C		8.21	8.04	8.06	
Electrical Conductivity	µS/cm at 25 C	357	365	341	1
Calcium Dissolved	mg/L	43.6	50.4	49.6	0.1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **710945**
Control Number: A136457
Date Received: Oct 30, 2009
Date Reported: Nov 5, 2009
Report Number: 1270071

			Reference Number	710945-7	710945-8	710945-9	
			Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	RAU #7	RAU #8	RAU #9	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued							
Magnesium	Dissolved	mg/L		23.8	19.3	16.6	0.1
Phosphorus	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Potassium	Dissolved	mg/L		0.1	0.2	0.3	0.1
Silicon	Dissolved	mg/L		2.00	1.60	1.79	0.05
Sodium	Dissolved	mg/L		0.9	0.4	0.8	0.1
Bicarbonate		mg/L		220	220	220	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		177	179	179	5
Chloride	Dissolved	mg/L		0.16	0.11	0.1	0.02
Nitrate - N	Dissolved	mg/L		0.30	0.22	0.20	0.01
Nitrite - N	Dissolved	mg/L		0.12	0.15	0.16	0.01
Sulfate (SO4)	Dissolved	mg/L		31.6	31.6	21	0.6
Hardness	as CaCO3	mg/L		207	205	192	5
Hardness	Total	mg CaCO3/L		214	215	200	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A136457
	Box 20111	Name:	RAU Claims	Date Received:	Oct 30, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Nov 5, 2009
	Y1A 7A2	LSD:		Report Number:	1270071
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	710945-8	710945-9	710945-10	
		Sample Date	Oct 28, 2009	Oct 28, 2009	Oct 28, 2009	
		Sample Time	NA	NA	16:00	
		Sample Location				
		Sample Description	RAU #8	RAU #9	RAU #10	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	0.8	1		0.5
Cyanide	Total	mg/L	0.001	0.001		0.001
Ammonia - N		mg/L	<0.01	<0.01	0.01	
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	2	1
Solids	Total Dissolved	mg/L	234	226	242	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **710945**
Control Number: A136457
Date Received: Oct 30, 2009
Date Reported: Nov 5, 2009
Report Number: 1270071

Reference Number	710945-10
Sample Date	Oct 28, 2009
Sample Time	16:00
Sample Location	
Sample Description	RAU #10
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Dissolved						
Titanium	Dissolved	mg/L	<0.010			0.01
Aluminum	Dissolved	mg/L	<0.005			0.005
Antimony	Dissolved	mg/L	0.0005			0.0002
Arsenic	Dissolved	mg/L	<0.0002			0.0002
Barium	Dissolved	mg/L	0.064			0.001
Beryllium	Dissolved	mg/L	<0.00004			0.00004
Bismuth	Dissolved	mg/L	<0.001			0.001
Boron	Dissolved	mg/L	<0.004			0.004
Cadmium	Dissolved	mg/L	0.00001			0.00001
Chromium	Dissolved	mg/L	0.0005			0.0004
Cobalt	Dissolved	mg/L	0.00012			0.00002
Copper	Dissolved	mg/L	<0.001			0.001
Iron	Dissolved	mg/L	0.02			0.01
Lead	Dissolved	mg/L	<0.0001			0.0001
Lithium	Dissolved	mg/L	0.003			0.001
Manganese	Dissolved	mg/L	0.0113			0.0002
Molybdenum	Dissolved	mg/L	0.0008			0.0001
Nickel	Dissolved	mg/L	0.003			0.001
Selenium	Dissolved	mg/L	<0.0006			0.0006
Silver	Dissolved	mg/L	<0.00001			0.00001
Strontium	Dissolved	mg/L	0.152			0.001
Sulfur	Dissolved	mg/L	15.1			0.2
Tellurium	Dissolved	mg/L	<0.0001			0.0001
Thallium	Dissolved	mg/L	<0.00001			0.00001
Thorium	Dissolved	mg/L	<0.0004			0.0004
Tin	Dissolved	mg/L	<0.0001			0.0001
Uranium	Dissolved	mg/L	0.0013			0.0004
Vanadium	Dissolved	mg/L	0.0001			0.0001
Zinc	Dissolved	mg/L	0.004			0.001
Zirconium	Dissolved	mg/L	<0.0001			0.0001
Metals Total						
Aluminum	Total	mg/L	0.019			0.005
Antimony	Total	mg/L	<0.0002			0.0002
Arsenic	Total	mg/L	0.0004			0.0002
Barium	Total	mg/L	0.065			0.001
Beryllium	Total	mg/L	<0.00004			0.00004

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20111
Whitehorse, YT, Canada
Y1A 7A2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: ATAC Resources
Name: RAU Claims
Location:
LSD:
P.O.:
Acct code:

Lot ID: **710945**
Control Number: A136457
Date Received: Oct 30, 2009
Date Reported: Nov 5, 2009
Report Number: 1270071

Reference Number	710945-10
Sample Date	Oct 28, 2009
Sample Time	16:00
Sample Location	
Sample Description	RAU #10
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued						
Bismuth	Total	mg/L	<0.001			0.001
Boron	Total	mg/L	<0.005			0.004
Cadmium	Total	mg/L	0.00003			0.00001
Calcium	Total	mg/L	52.6			0.05
Chromium	Total	mg/L	0.0005			0.0004
Cobalt	Total	mg/L	0.00013			0.00002
Copper	Total	mg/L	<0.001			0.001
Iron	Total	mg/L	0.082			0.01
Lead	Total	mg/L	0.0002			0.0001
Lithium	Total	mg/L	0.003			0.001
Magnesium	Total	mg/L	21.7			0.05
Manganese	Total	mg/L	0.0134			0.0002
Molybdenum	Total	mg/L	0.0008			0.0001
Nickel	Total	mg/L	0.003			0.001
Phosphorus	Total	mg/L	<0.01			0.01
Potassium	Total	mg/L	0.4			0.1
Selenium	Total	mg/L	<0.0006			0.0006
Silicon	Total	mg/L	2.38			0.05
Silver	Total	mg/L	<0.00001			0.00001
Sodium	Total	mg/L	2.46			0.02
Strontium	Total	mg/L	0.157			0.001
Sulfur	Total	mg/L	16.2			0.1
Tellurium	Total	mg/L	<0.0001			0.0001
Thallium	Total	mg/L	<0.00001			0.00001
Thorium	Total	mg/L	<0.0004			0.0004
Tin	Total	mg/L	<0.0001			0.0001
Uranium	Total	mg/L	0.0013			0.0004
Vanadium	Total	mg/L	0.0002			0.0001
Zinc	Total	mg/L	0.006			0.001
Zirconium	Total	mg/L	<0.0001			0.0001
Titanium	Total	mg/L	0.008			0.001
Routine Water						
pH	@ 25 °C		8.02			
Electrical Conductivity		µS/cm at 25 C	367			1
Calcium	Dissolved	mg/L	50.8			0.1
Magnesium	Dissolved	mg/L	21.0			0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A136457
	Box 20111	Name:	RAU Claims	Date Received:	Oct 30, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Nov 5, 2009
	Y1A 7A2	LSD:		Report Number:	1270071
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Reference Number	710945-10
Sample Date	Oct 28, 2009
Sample Time	16:00
Sample Location	
Sample Description	RAU #10
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Routine Water - Continued						
Phosphorus	Dissolved	mg/L	<0.01			0.01
Potassium	Dissolved	mg/L	0.7			0.1
Silicon	Dissolved	mg/L	2.21			0.05
Sodium	Dissolved	mg/L	1.8			0.1
Bicarbonate		mg/L	200			5
Carbonate		mg/L	<6			6
Hydroxide		mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	161			5
Chloride	Dissolved	mg/L	0.80			0.02
Nitrate - N	Dissolved	mg/L	0.12			0.01
Nitrite - N	Dissolved	mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved	mg/L	45.2			0.6
Hardness	as CaCO3	mg/L	213			5
Hardness	Total	mg CaCO3/L	221			1

Approved by:

Andrew Garrard, BSc
General Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	ATAC Resources
	Box 20111	Name:	RAU Claims
	Whitehorse, YT, Canada	Location:	
	Y1A 7A2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J. Gibson	Acct code:	
Company:			

Lot ID:	**710945**
Control Number:	A136457
Date Received:	Oct 30, 2009
Date Reported:	Nov 5, 2009
Report Number:	1270071

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water	APHA	*	Conductivity, 2510	02-Nov-09	Exova Surrey
Alk, pH, EC, Turb in water	APHA	*	Electrometric Method, 4500-H+ B	02-Nov-09	Exova Surrey
Alk, pH, EC, Turb in water	APHA	*	Titration Method, 2320 B	02-Nov-09	Exova Surrey
Ammonia-N in Water	APHA	*	Titrametric, 4500-NH3 C	03-Nov-09	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	02-Nov-09	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	04-Nov-09	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	04-Nov-09	Exova Edmonton
Mercury Low Level (Total) in water	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	02-Nov-09	Exova Surrey
Metals SemiTrace (Dissolved) in water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	02-Nov-09	Exova Surrey
Metals SemiTrace (Total) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	02-Nov-09	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile)2	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	02-Nov-09	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	02-Nov-09	Exova Surrey
Trace Metals (dissolved) in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	02-Nov-09	Exova Surrey
Trace Metals (dissolved) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	02-Nov-09	Exova Surrey
Trace Metals (Total) in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	02-Nov-09	Exova Surrey
Trace Metals (Total) in Water	US EPA	*	Metals & Trace Elements by ICP-AES, 6010B	02-Nov-09	Exova Surrey

** Laboratory method(s) based on reference method*

References

APHA	Standard Methods for the Examination of Water and Wastewater
EPA	Environmental Protection Agency Test Methods - US
US EPA	US Environmental Protection Agency Test Methods

Comments:

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**710945**
Report To:	J. Gibson & Associates	ID:	ATAC Resources	Control Number:	A136457
	Box 20111	Name:	RAU Claims	Date Received:	Oct 30, 2009
	Whitehorse, YT, Canada	Location:		Date Reported:	Nov 5, 2009
	Y1A 7A2	LSD:		Report Number:	1270071
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

- Samples 1,2,4, and 5-10 were analyzed for Ammonia after holding time had expired.
- Some total metal results were less than dissolved metal results for lot 710945. The results were verified and are within expected measurement uncertainty.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

A P P E N D I X 2

Flow Volume Calculations

October 2009

Table. Summary of Station RAU#10 (Beaver River) Analysis Data - Routine Chemistry.

Parameter	Unit	Oct-09	Max	Min	Mean
pH (field)	ru	8.53			
pH (lab)	ru	8.02			
Conductivity (lab)	uS/cm	367			
Water temperature	C	0.1			
Flow Volume(field)	cms	nr			
Ammonia -N	mg/L	0.01			
Orthophosphate -P	mg/L	0.4			
Chloride	mg/L	0.8			
Nitrate - N	mg/L	0.12			
Nitrite - N	mg/L	<0.01			
Sulphate (S04)	mg/L	45.2			
T.Suspended Solids	mg/L	2			
T.Dissolved Solids	mg/L	242			
Hardness (as CaC03)	mg/L	221			
Alkalinity (as CaC03)	mg/L	161			
Organic Carbon-Total	mg/L	nr			
Cyanide - Total	mg/L	nr			

For Max/Min/Mean calculations "<" values are 1/2 detection limits

Table. Summary of Station RAU #1 Analysis Data - Total Metals.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
Total Metals									
Aluminum	mg/L	0.318	0.359	0.126	0.007	0.018	***0.359***	***0.007***	***0.1656***
Antimony	mg/L	0.0001	0.0001	0.0001	0.0003	0.0001	***0.0003***	***0.0001***	***0.00014***
Arsenic	mg/L	0.0005	0.0008	0.0004	0.0001	0.0001	***0.0008***	***0.0001***	***0.00038***
Barium	mg/L	0.102	0.088	0.084	0.08	0.083	***0.102***	***0.08***	***0.0874***
Beryllium	mg/L	0.00005	0.00005	0.00002	0.00002	0.00002	***0.00005***	***0.00002***	***0.000032***
Bismuth	mg/L	0.00025	0.00025	0.00005	0.0005	0.0005	***0.0005***	***0.00005***	***0.00031***
Boron	mg/L	0.002	0.001	0.0025	0.0025	0.0025	***0.0025***	***0.001***	***0.0021***
Cadmium	mg/L	0.00014	0.00017	0.00013	0.00008	0.00008	***0.00017***	***0.00008***	***0.00012***
Calcium	mg/L	51	44.5	39.7	61.2	65.2	***65.2***	***39.7***	***52.32***
Chromium	mg/L	0.0009	0.0012	0.0006	0.0005	0.0005	***0.0012***	***0.0005***	***0.00074***
Cobalt	mg/L	0.0003	0.0002	0.00011	0.00006	0.00008	***0.0003***	***0.00006***	***0.00015***
Copper	mg/L	0.002	0.002	0.0005	0.0005	0.0005	***0.002***	***0.0005***	***0.0011***
Iron	mg/L	0.42	0.48	0.17	0.016	0.011	***0.48***	***0.011***	***0.2194***
Lead	mg/L	0.0006	0.0006	0.0006	0.00005	0.0002	***0.0006***	***0.00005***	***0.00041***
Lithium	mg/L	0.002	0.002	0.001	0.002	0.002	***0.002***	***0.001***	***0.0018***
Magnesium	mg/L	8.3	7.3	6.77	6.93	8.02	***8.3***	***6.77***	***7.464***
Manganese	mg/L	0.024	0.021	0.0131	0.0061	0.0055	***0.024***	***0.0055***	***0.01394***
Molybdenum	mg/L	0.001	0.001	0.00093	0.0016	0.0017	***0.0017***	***0.00093***	***0.001246***
Nickel	mg/L	0.0018	0.0022	0.001	0.001	0.002	***0.0022***	***0.001***	***0.0016***
Potassium	mg/L	0.2	0.4	0.3	0.2	0.2	***0.4***	***0.2***	***0.26***
Sulfur	mg/L	10.2	9.3	7.6	15	15.6	***15.6***	***7.6***	***11.54***
Selenium	mg/L	0.0024	0.0023	0.0014	0.0026	0.0039	***0.0039***	***0.0014***	***0.00252***
Strontium	mg/L	0.093	0.089	0.064	0.128	0.126	***0.128***	***0.064***	***0.1***
Silver	mg/L	0.000005	0.00003	0.000005	0.00018	0.000005	***0.00018***	***0.000005***	***0.000045***
Silicon	mg/L	2.47	2.5	1.67	2.56	2.98	***2.98***	***1.67***	***2.436***
Sodium	mg/L	0.8	0.8	1.33	1.62	1.64	***1.64***	***0.8***	***1.238***
Thallium	mg/L	0.000025	0.000025	0.000005	0.000005	0.000005	***0.000025***	***0.000005***	***0.000013***
Tin	mg/L	0.0005	0.0005	0.00005	0.00005	0.00005	***0.0005***	***0.00005***	***0.00023***
Titanium	mg/L	0.0096	0.01	0.0034	0.0002	0.012	***0.012***	***0.0002***	***0.00704***
Uranium	mg/L	0.0013	0.0012	0.0008	0.0016	0.0021	***0.0021***	***0.0008***	***0.0014***
Vanadium	mg/L	0.0013	0.0016	0.00054	0.0003	0.0002	***0.0016***	***0.0002***	***0.000788***
Zinc	mg/L	0.014	0.015	0.03	0.008	0.007	***0.03***	***0.007***	***0.0148***
Mercury	mg/L			0.005	0.005	0.005	***0.005***	***0.005***	***0.005***

For Max/Min/Mean calculations - "<" values are 1/2 detection limit

Table. Summary of Station RAU #2 Analysis Data - Total Metals.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
Total Metals									
Aluminum	mg/L	0.184	0.098	0.053	0.008	0.014	***0.184***	***0.008***	***0.0714***
Antimony	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	***0.0001***	***0.0001***	***0.0001***
Arsenic	mg/L	0.0003	0.0004	0.0003	0.0004	0.0004	***0.0004***	***0.0003***	***0.00036***
Barium	mg/L	0.042	0.041	0.034	0.051	0.05	***0.051***	***0.034***	***0.0436***
Beryllium	mg/L	0.00005	0.00005	0.00002	0.00002	0.00002	***0.00005***	***0.00002***	***0.000032***
Bismuth	mg/L	0.00025	0.00025	0.00005	0.0005	0.0005	***0.0005***	***0.00005***	***0.00031***
Boron	mg/L	0.003	0.001	0.0025	0.0025	0.0025	***0.003***	***0.001***	***0.0023***
Cadmium	mg/L	0.00002	0.00003	0.0006	0.000005	0.00002	***0.0006***	***0.000005***	***0.000135***
Calcium	mg/L	41.1	36.9	36.5	56.4	63.4	***63.4***	***36.5***	***46.86***
Chromium	mg/L	0.0006	0.00025	0.0002	0.0002	0.0005	***0.0006***	***0.0002***	***0.00035***
Cobalt	mg/L	0.0005	0.0004	0.00019	0.000009	0.00011	***0.0005***	***0.000009***	***0.000242***
Copper	mg/L	0.002	0.006	0.002	0.0005	0.0005	***0.006***	***0.0005***	***0.0022***
Iron	mg/L	0.34	0.27	0.16	0.056	0.047	***0.34***	***0.047***	***0.1746***
Lead	mg/L	0.0001	0.0002	0.0002	0.00005	0.0001	***0.0002***	***0.00005***	***0.00013***
Lithium	mg/L	0.003	0.003	0.002	0.005	0.006	***0.006***	***0.002***	***0.0038***
Magnesium	mg/L	8.8	8.6	5.66	13.3	16.4	***16.4***	***5.66***	***10.552***
Manganese	mg/L	0.068	0.077	0.0342	0.0149	0.0174	***0.077***	***0.0149***	***0.0423***
Molybdenum	mg/L	0.0005	0.0005	0.00037	0.0006	0.0005	***0.0006***	***0.00037***	***0.000494***
Nickel	mg/L	0.0021	0.0018	0.001	0.002	0.002	***0.0021***	***0.001***	***0.00178***
Potassium	mg/L	0.2	0.2	0.2	0.4	0.4	***0.4***	***0.2***	***0.28***
Sulfur	mg/L	10.6	10.2	7.3	19.7	21.2	***21.2***	***7.3***	***13.8***
Selenium	mg/L	0.0008	0.0006	0.0003	0.0003	0.0008	***0.0008***	***0.0003***	***0.00056***
Strontium	mg/L	0.087	0.08	0.069	0.132	0.133	***0.133***	***0.069***	***0.1002***
Silver	mg/L	0.000005	0.00002	0.000005	0.00006	0.000005	***0.00006***	***0.000005***	***0.000019***
Silicon	mg/L	2.52	2.33	1.97	2.69	3.12	***3.12***	***1.97***	***2.526***
Sodium	mg/L	0.9	0.8	1.34	1.97	2.36	***2.36***	***0.8***	***1.474***
Thallium	mg/L	0.000025	0.000025	0.000005	0.000005	0.000005	***0.000025***	***0.000005***	***0.000013***
Tin	mg/L	0.0005	0.0005	0.00005	0.00005	0.00005	***0.0005***	***0.00005***	***0.00023***
Titanium	mg/L	0.0041	0.0026	0.0012	0.0002	0.003	***0.0041***	***0.0002***	***0.00222***
Uranium	mg/L	0.00025	0.00025	0.0002	0.0005	0.0006	***0.0006***	***0.0002***	***0.00036***
Vanadium	mg/L	0.0005	0.0004	0.00019	0.00005	0.00005	***0.0005***	***0.00005***	***0.000238***
Zinc	mg/L	0.006	0.011	0.009	0.006	0.008	***0.011***	***0.006***	***0.008***
Mercury	mg/L			0.005	0.005	0.005	***0.005***	***0.005***	***0.005***

For Max/Min/Mean calculations - "<" values are 1/2 detection limit

Table. Summary of Station RAU#3 Analysis Data - Total Metals.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
Total Metals									
Aluminum	mg/L	0.754	0.95	0.195	0.009	0.021	***0.95***	***0.009***	***0.3858***
Antimony	mg/L	0.0002	0.0003	0.0001	0.0002	0.0001	***0.0003***	***0.0001***	***0.00018***
Arsenic	mg/L	0.0019	0.0036	0.0007	0.0009	0.0006	***0.0036***	***0.0006***	***0.00154***
Barium	mg/L	0.131	0.112	0.076	0.113	0.105	***0.131***	***0.076***	***0.1074***
Beryllium	mg/L	0.00005	0.00005	0.00002	0.00002	0.00002	***0.00005***	***0.00002***	***0.000032***
Bismuth	mg/L	0.00025	0.00025	0.00005	0.0005	0.0005	***0.0005***	***0.00005***	***0.00031***
Boron	mg/L	0.007	0.006	0.0025	0.006	0.006	***0.007***	***0.0025***	***0.0055***
Cadmium	mg/L	0.00023	0.00028	0.00011	0.00005	0.00006	***0.00028***	***0.00005***	***0.000146***
Calcium	mg/L	58.2	56.1	41.9	59.3	67	***67***	***41.9***	***56.5***
Chromium	mg/L	0.0021	0.0025	0.0008	0.0002	0.0004	***0.0025***	***0.0002***	***0.0012***
Cobalt	mg/L	0.0007	0.0007	0.00021	0.00006	0.0001	***0.0007***	***0.00006***	***0.000354***
Copper	mg/L	0.003	0.004	0.002	0.0005	0.0005	***0.004***	***0.0005***	***0.002***
Iron	mg/L	1.29	1.45	0.39	0.032	0.082	***1.45***	***0.032***	***0.6488***
Lead	mg/L	0.001	0.001	0.0005	0.00005	0.00005	***0.001***	***0.00005***	***0.00052***
Lithium	mg/L	0.002	0.003	0.001	0.001	0.002	***0.003***	***0.001***	***0.0018***
Magnesium	mg/L	15.9	15.2	11.1	16.2	19	***19***	***11.1***	***15.48***
Manganese	mg/L	0.04	0.042	0.0159	0.004	0.0092	***0.042***	***0.004***	***0.02222***
Molybdenum	mg/L	0.002	0.003	0.00216	0.0031	0.0029	***0.0031***	***0.002***	***0.002632***
Nickel	mg/L	0.0042	0.0097	0.002	0.001	0.002	***0.0097***	***0.001***	***0.00378***
Potassium	mg/L	1.2	1.4	0.8	1	1.2	***1.4***	***0.8***	***1.12***
Sulfur	mg/L	9.2	12.1	5.7	9.1	10.7	***12.1***	***5.7***	***9.36***
Selenium	mg/L	0.001	0.0016	0.0012	0.0006	0.0016	***0.0016***	***0.0006***	***0.0012***
Strontium	mg/L	0.086	0.103	0.055	0.086	0.087	***0.103***	***0.055***	***0.0834***
Silver	mg/L	0.00002	0.00003	0.000005	0.000005	0.000005	***0.00003***	***0.000005***	***0.000013***
Silicon	mg/L	2.92	3.68	2.02	2.4	2.76	***3.68***	***2.02***	***2.756***
Sodium	mg/L	0.7	1.1	1.16	0.87	1.54	***1.54***	***0.7***	***1.074***
Thallium	mg/L	0.000025	0.000025	0.000005	0.000005	0.000005	***0.000025***	***0.000005***	***0.000013***
Tin	mg/L	0.0005	0.0005	0.00005	0.00005	0.00005	***0.0005***	***0.00005***	***0.00023***
Titanium	mg/L	0.023	0.0357	0.006	0.0002	0.008	***0.0357***	***0.0002***	***0.01458***
Uranium	mg/L	0.0026	0.0031	0.0017	0.0028	0.003	***0.0031***	***0.0017***	***0.00264***
Vanadium	mg/L	0.0031	0.0044	0.0008	0.0002	0.0002	***0.0044***	***0.0002***	***0.00174***
Zinc	mg/L	0.018	0.044	0.008	0.003	0.004	***0.044***	***0.003***	***0.0154***
Mercury	mg/L			0.005	0.005	0.005	***0.005***	***0.005***	***0.005***

For Max/Min/Mean calculations - "<" values are 1/2 detection limit

Table. Summary of Station RAU#4 Analysis Data- Routine Chemistry.

Parameter	Unit	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
pH (field)	ru	8.64	No	8.19		8.92	***8.92***	***8.19***	***8.58***
pH (lab)	ru	8.34	Sample	8.34	8.29	8.24	***8.34***	***8.24***	***8.30***
Conductivity (lab)	uS/cm	398		371	388	378	***398***	***371***	***383.8***
Water temperature	C	6		6	7	0.9	***7***	***0.9***	***5.0***
Flow Volume(field)	cms	0.043		0.066	0.069	0.079	***0.079***	***0.043***	***0.064***
Ammonia -N	mg/L	0.0025		0.02	0.005	0.005	***0.02***	***0.0025***	***0.008125***
Orthophosphate -P	mg/L	0.005		<0.01	0.005	0.005	***0.005***	***0.005***	***0.005***
Chloride	mg/L	0.1		0.13	0.32	0.14	***0.32***	***0.1***	***0.1725***
Nitrate - N	mg/L	0.16		0.26	0.23	0.36	***0.36***	***0.16***	***0.2525***
Nitrite - N	mg/L	0.1		0.05	0.005	0.18	***0.18***	***0.005***	***0.08375***
Sulphate (S04)	mg/L	28		26.8	31.8	29	***31.8***	***26.8***	***28.9***
T.Suspended Solids	mg/L	1		6	4	4	***6***	***1***	***3.75***
T.Dissolved Solids	mg/L	256		230	256	266	***266***	***230***	***252***
Hardness (as CaC03)	mg/L	224		220	219	224	***224***	***219***	***221.75***
Alkalinity (as CaC03)	mg/L	202		175	191	196	***202***	***175***	***191***
Organic Carbon-Total	mg/L			1	0.9	1.1	***1.1***	***0.9***	***1***
Cyanide - Total	mg/L			0.001	0.0005	0.001	***0.001***	***0.0005***	***0.000833***

For Max/Min/Mean calculations - "<" values are 1/2 detection limit

Table. Summary of Station RAU#5 Analysis Data - Dissolved Metals.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
Dissolved Metals									
Aluminum	mg/L	0.006	0.005	0.0025	0.0025	0.0025	***0.006***	***0.0025***	***0.0037***
Antimony	mg/L	0.0018	0.0013	0.0012	0.0013	0.0012	***0.0018***	***0.0012***	***0.00136***
Arsenic	mg/L	0.0005	0.0004	0.0006	0.0046	0.0005	***0.0046***	***0.0004***	***0.00132***
Barium	mg/L	0.114	0.115	0.102	0.131	0.115	***0.131***	***0.102***	***0.1154***
Beryllium	mg/L	0.00005	0.00005	0.00002	0.00002	0.00002	***0.00005***	***0.00002***	***0.000032***
Bismuth	mg/L	0.00025	0.00025	0.00005	0.0005	0.0005	***0.0005***	***0.00005***	***0.00031***
Boron	mg/L	0.002	0.001	0.002	0.002	0.002	***0.002***	***0.001***	***0.0018***
Cadmium	mg/L	0.00049	0.00028	0.00024	0.0004	0.00034	***0.00049***	***0.00024***	***0.00035***
Calcium	mg/L	77.6	68.5	63.4	78.6	79.7	***79.7***	***63.4***	***73.56***
Chromium	mg/L	0.00025	0.00025	0.00005	0.0012	0.0008	***0.0012***	***0.00005***	***0.00051***
Cobalt	mg/L	0.0001	0.00005	0.00015	0.00013	0.00012	***0.00015***	***0.00005***	***0.00011***
Copper	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Iron	mg/L	0.11	0.03	0.04	0.15	0.05	***0.15***	***0.03***	***0.076***
Lead	mg/L	0.00005	0.000005	0.0001	0.0004	0.00005	***0.0004***	***0.000005***	***0.000121***
Lithium	mg/L	0.003	0.002	0.002	0.002	0.002	***0.003***	***0.002***	***0.0022***
Magnesium	mg/L	28	26.7	24.8	29.8	30.7	***30.7***	***24.8***	***28***
Manganese	mg/L	0.011	0.0025	0.016	0.0213	0.0122	***0.0213***	***0.0025***	***0.0126***
Molybdenum	mg/L	0.007	0.007	0.00535	0.0074	0.0067	***0.0074***	***0.00535***	***0.00669***
Nickel	mg/L	0.0096	0.0078	0.007	0.012	0.011	***0.012***	***0.007***	***0.00948***
Potassium	mg/L	1	0.8	0.9	0.8	1.1	***1.1***	***0.8***	***0.92***
Sulfur	mg/L	12.9	10.3	8.9	13.2	12.4	***13.2***	***8.9***	***11.54***
Selenium	mg/L	0.0031	0.0038	0.0019	0.0018	0.0033	***0.0038***	***0.0018***	***0.00278***
Strontium	mg/L	0.198	0.168	0.141	0.189	0.177	***0.198***	***0.141***	***0.1746***
Silver	mg/L	0.000005	0.000005	0.000005	0.0001	0.000005	***0.0001***	***0.000005***	***0.000024***
Silicon	mg/L	2.96	2.82	2.33	2.79	2.83	***2.96***	***2.33***	***2.746***
Sodium	mg/L	0.7	0.5	1.2	1.3	0.8	***1.3***	***0.5***	***0.9***
Thallium	mg/L	0.000025	0.000025	0.00001	0.00001	0.00002	***0.000025***	***0.00001***	***0.000018***
Tin	mg/L	0.0005	0.0005	0.00005	0.00005	0.00005	***0.0005***	***0.00005***	***0.00023***
Titanium	mg/L	0.0014	0.0005	0.0004	0.0002	0.005	***0.005***	***0.0002***	***0.0015***
Uranium	mg/L	0.0121	0.0103	0.0084	0.0156	0.0126	***0.0156***	***0.0084***	***0.0118***
Vanadium	mg/L	0.0008	0.0012	0.00049	0.0005	0.0004	***0.0012***	***0.0004***	***0.000678***
Zinc	mg/L	0.07	0.051	0.032	0.078	0.076	***0.078***	***0.032***	***0.0614***

For Max/Min/Mean calculations "<" values are 1/2 detection limits

Table. Summary of Station RAU#6 Analysis Data - Dissolved Metals.

Parameter	Units	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
Dissolved Metals									
Aluminum	mg/L	No	No	0.0025	0.0025	No	***0.0025***	***0.0025***	***0.0025***
Antimony	mg/L	Sample	Sample	0.0004	0.0005	Sample	***0.0005***	***0.0004***	***0.00045***
Arsenic	mg/L			0.0001	0.0034		***0.0034***	***0.0001***	***0.00175***
Barium	mg/L			0.061	0.077		***0.077***	***0.061***	***0.069***
Beryllium	mg/L			0.00002	0.00002		***0.00002***	***0.00002***	***0.00002***
Bismuth	mg/L			0.00005	0.0005		***0.0005***	***0.00005***	***0.000275***
Boron	mg/L			0.002	0.002		***0.002***	***0.002***	***0.002***
Cadmium	mg/L			0.000005	0.000005		***0.000005***	***0.000005***	***0.000005***
Calcium	mg/L			32.6	33.4		***33.4***	***32.6***	***33***
Chromium	mg/L			0.0002	0.0006		***0.0006***	***0.0002***	***0.0004***
Cobalt	mg/L			0.00006	0.00008		***0.00008***	***0.00006***	***0.00007***
Copper	mg/L			0.001	0.0005		***0.001***	***0.0005***	***0.00075***
Iron	mg/L			0.005	0.005		***0.005***	***0.005***	***0.005***
Lead	mg/L			0.00005	0.00005		***0.00005***	***0.00005***	***0.00005***
Lithium	mg/L			0.0005	0.0005		***0.0005***	***0.0005***	***0.0005***
Magnesium	mg/L			12.3	13		***13***	***12.3***	***12.65***
Manganese	mg/L			0.0001	0.0006		***0.0006***	***0.0001***	***0.00035***
Molybdenum	mg/L			0.00149	0.002		***0.002***	***0.00149***	***0.001745***
Nickel	mg/L			0.0005	0.0005		***0.0005***	***0.0005***	***0.0005***
Potassium	mg/L			0.05	0.05		***0.05***	***0.05***	***0.05***
Sulfur	mg/L			1.9	2		***2***	***1.9***	***1.95***
Selenium	mg/L			0.0003	0.0003		***0.0003***	***0.0003***	***0.0003***
Strontium	mg/L			0.019	0.022		***0.022***	***0.019***	***0.0205***
Silver	mg/L			0.000005	0.00008		***0.00008***	***0.000005***	***0.000042***
Silicon	mg/L			0.98	1.12		***1.12***	***0.98***	***1.05***
Sodium	mg/L			0.7	0.6		***0.7***	***0.6***	***0.65***
Thallium	mg/L			0.000005	0.000005		***0.000005***	***0.000005***	***0.000005***
Tin	mg/L			0.00005	0.00005		***0.00005***	***0.00005***	***0.00005***
Titanium	mg/L			0.0002	0.0002		***0.0002***	***0.0002***	***0.0002***
Uranium	mg/L			0.0018	0.002		***0.002***	***0.0018***	***0.0019***
Vanadium	mg/L			0.0001	0.0002		***0.0002***	***0.0001***	***0.00015***
Zinc	mg/L			0.004	0.004		***0.004***	***0.004***	***0.004***

For Max/Min/Mean calculations "<" values are 1/2 detection limits

Table. Summary of Station RAU#7 Analysis Data - Dissolved Metals.

Parameter	Unit	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
Dissolved Metals									
Aluminum	mg/L	0.0025	0.0025	0.007	0.0025	0.0025	***0.007***	***0.0025***	***0.0034***
Antimony	mg/L	0.0006	0.0007	0.0005	0.0006	0.0004	***0.0007***	***0.0004***	***0.00056***
Arsenic	mg/L	0.0003	0.0003	0.0002	0.0032	0.0001	***0.0032***	***0.0001***	***0.00082***
Barium	mg/L	0.155	0.174	0.133	0.174	0.166	***0.174***	***0.133***	***0.1604***
Beryllium	mg/L	0.00005	0.00005	0.00002	0.00002	0.00002	***0.00005***	***0.00002***	***0.000032***
Bismuth	mg/L	0.00025	0.00025	0.00025	0.0005	0.0005	***0.0005***	***0.00025***	***0.00035***
Boron	mg/L	0.001	0.001	0.002	0.002	0.002	***0.002***	***0.001***	***0.0016***
Cadmium	mg/L	0.00003	0.00002	0.00002	0.00008	0.00002	***0.00008***	***0.00002***	***0.000034***
Calcium	mg/L	40.9	42.2	36.6	41.9	43.6	***43.6***	***36.6***	***41.04***
Chromium	mg/L	0.00025	0.00025	0.0002	0.0008	0.0007	***0.0008***	***0.0002***	***0.00044***
Cobalt	mg/L	0.00005	0.00005	0.00001	0.00005	0.00005	***0.00005***	***0.00001***	***0.000042***
Copper	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Iron	mg/L	0.005	0.005	0.005	0.005	0.005	***0.005***	***0.005***	***0.005***
Lead	mg/L	0.00005	0.00005	0.0002	0.0001	0.00005	***0.0002***	***0.00005***	***0.00009***
Lithium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Magnesium	mg/L	20.9	22.2	18.9	22.4	23.8	***23.8***	***18.9***	***21.64***
Manganese	mg/L	0.0025	0.0025	0.0005	0.0003	0.0001	***0.0025***	***0.0001***	***0.00118***
Molybdenum	mg/L	0.0005	0.0005	0.00014	0.0001	0.0002	***0.0005***	***0.0001***	***0.000288***
Nickel	mg/L	0.00025	0.00025	0.0005	0.0005	0.0005	***0.0005***	***0.00025***	***0.0004***
Potassium	mg/L	0.2	0.2	0.1	0.05	0.1	***0.2***	***0.05***	***0.13***
Sulfur	mg/L	9.7	10.5	7.3	10.2	10.5	***10.5***	***7.3***	***9.64***
Selenium	mg/L	0.0001	0.0002	0.0003	0.0003	0.0003	***0.0003***	***0.0001***	***0.00024***
Strontium	mg/L	0.042	0.042	0.031	0.042	0.038	***0.042***	***0.031***	***0.039***
Silver	mg/L	0.000005	0.000005	0.000005	0.00004	0.000005	***0.00004***	***0.000005***	***0.000012***
Silicon	mg/L	1.87	1.93	1.42	1.86	2	***2***	***1.42***	***1.816***
Sodium	mg/L	0.2	0.6	0.7	0.8	0.9	***0.9***	***0.2***	***0.64***
Thallium	mg/L	0.000025	0.000025	0.000005	0.000005	0.000005	***0.000025***	***0.000005***	***0.000013***
Tin	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Titanium	mg/L	0.001	0.00025	0.0002	0.0002	0.0005	***0.001***	***0.0002***	***0.00043***
Uranium	mg/L	0.0013	0.0014	0.001	0.0014	0.0015	***0.0015***	***0.001***	***0.00132***
Vanadium	mg/L	0.0007	0.0007	0.00021	0.0003	0.0003	***0.0007***	***0.00021***	***0.000442***
Zinc	mg/L	0.006	0.006	0.004	0.005	0.005	***0.006***	***0.004***	***0.0052***

For Max/Min/Mean calculations "<" values are 1/2 detection limits

Table. Summary of Station RAU#8 Analysis Data - Total Metals.

Parameter	Unit	Aug-08	Oct-08	Jun-09	Jul-09	Oct-09	Max	Min	Mean
Aluminum	mg/L	0.033	0.126	0.089	0.008	0.015	***0.126***	***0.008***	***0.0542***
Antimony	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	***0.0001***	***0.0001***	***0.0001***
Arsenic	mg/L	0.0003	0.0004	0.0004	0.0004	0.0004	***0.0004***	***0.0003***	***0.00038***
Barium	mg/L	0.171	0.157	0.16	0.2	0.188	***0.2***	***0.157***	***0.1752***
Beryllium	mg/L	0.00005	0.00005	0.00002	0.00002	0.00002	***0.00005***	***0.00002***	***0.000032***
Bismuth	mg/L	0.00025	0.00025	0.0005	0.0005	0.0005	***0.0005***	***0.00025***	***0.0004***
Boron	mg/L	0.001	0.001	0.0025	0.0025	0.0025	***0.0025***	***0.001***	***0.0019***
Cadmium	mg/L	0.00014	0.00017	0.00018	0.00014	0.00022	***0.00022***	***0.00014***	***0.00017***
Calcium	mg/L	45.3	43.8	38.7	46.2	52.7	***52.7***	***38.7***	***45.34***
Chromium	mg/L	0.00025	0.0005	0.0005	0.0005	0.0007	***0.0007***	***0.00025***	***0.00049***
Cobalt	mg/L	0.00005	0.0001	0.00013	0.00005	0.00006	***0.00013***	***0.00005***	***0.000078***
Copper	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Iron	mg/L	0.025	0.2	0.16	0.022	0.022	***0.2***	***0.022***	***0.0858***
Lead	mg/L	0.0002	0.001	0.0009	0.0002	0.0003	***0.001***	***0.0002***	***0.00052***
Lithium	mg/L	0.0005	0.001	0.0005	0.0005	0.0005	***0.001***	***0.0005***	***0.0006***
Magnesium	mg/L	16.8	16.8	13.6	17.2	20.2	***20.2***	***13.6***	***16.92***
Manganese	mg/L	0.0025	0.053	0.012	0.0041	0.0048	***0.053***	***0.0025***	***0.01528***
Molybdenum	mg/L	0.0005	0.0005	0.0006	0.0007	0.0006	***0.0007***	***0.0005***	***0.00058***
Nickel	mg/L	0.0014	0.0023	0.002	0.002	0.003	***0.003***	***0.0014***	***0.00214***
Potassium	mg/L	0.2	0.2	0.2	0.2	0.2	***0.2***	***0.2***	***0.2***
Sulfur	mg/L	8.1	7.3	5.2	8.8	11.2	***11.2***	***5.2***	***8.12***
Selenium	mg/L	0.0008	0.0009	0.0003	0.0007	0.0014	***0.0014***	***0.0003***	***0.00082***
Strontium	mg/L	0.055	0.054	0.04	0.056	0.058	***0.058***	***0.04***	***0.0526***
Silver	mg/L	0.000005	0.00001	0.000005	0.000005	0.000005	***0.00001***	***0.000005***	***0.000006***
Silicon	mg/L	1.36	1.53	1.22	1.27	1.74	***1.74***	***1.22***	***1.424***
Sodium	mg/L	0.2	0.2	0.89	0.87	1.01	***1.01***	***0.2***	***0.634***
Thallium	mg/L	0.000025	0.000025	0.000005	0.000005	0.000005	***0.000025***	***0.000005***	***0.000013***
Tin	mg/L	0.0005	0.0005	0.00005	0.00005	0.00005	***0.0005***	***0.00005***	***0.00023***
Titanium	mg/L	0.0019	0.004	0.0026	0.0002	0.0005	***0.004***	***0.0002***	***0.00184***
Uranium	mg/L	0.003	0.0028	0.0021	0.0036	0.0044	***0.0044***	***0.0021***	***0.00318***
Vanadium	mg/L	0.0002	0.0006	0.00036	0.0002	0.0002	***0.0006***	***0.0002***	***0.000312***
Zinc	mg/L	0.038	0.05	0.053	0.04	0.055	***0.055***	***0.038***	***0.0472***
Mercury	mg/L			0.005	0.005	0.005	***0.005***	***0.005***	***0.005***

For Max/Min/Mean calculations "<" values are 1/2 detection limits

Table. Summary of Station RAU#9 Analysis Data - Dissolved Metals.

Parameter	Unit	Jul-09	Oct-09	Max	Min	Mean
Dissolved Metals						
Aluminum	mg/L	0.00025	0.00025	***0.00025***	***0.00025***	***0.00025***
Antimony	mg/L	0.0006	0.0004	***0.0006***	***0.0004***	***0.0005***
Arsenic	mg/L	0.0053	0.0002	***0.0053***	***0.0002***	***0.00275***
Barium	mg/L	0.225	0.236	***0.236***	***0.225***	***0.2305***
Beryllium	mg/L	0.00002	0.00002	***0.00002***	***0.00002***	***0.00002***
Bismuth	mg/L	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Boron	mg/L	0.002	0.002	***0.002***	***0.002***	***0.002***
Cadmium	mg/L	0.000005	0.00003	***0.00003***	***0.000005***	***0.0000175***
Calcium	mg/L	48.3	49.6	***49.6***	***48.3***	***48.95***
Chromium	mg/L	0.0007	0.0006	***0.0007***	***0.0006***	***0.00065***
Cobalt	mg/L	0.00006	0.00006	***0.00006***	***0.00006***	***0.00006***
Copper	mg/L	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Iron	mg/L	0.005	0.005	***0.005***	***0.005***	***0.005***
Lead	mg/L	0.00005	0.00005	***0.00005***	***0.00005***	***0.00005***
Lithium	mg/L	0.0005	0.00005	***0.0005***	***0.00005***	***0.000275***
Magnesium	mg/L	15.2	16.6	***16.6***	***15.2***	***15.9***
Manganese	mg/L	0.0012	0.0008	***0.0012***	***0.0008***	***0.001***
Molybdenum	mg/L	0.0013	0.001	***0.0013***	***0.001***	***0.00115***
Nickel	mg/L	0.0005	0.0005	***0.0005***	***0.0005***	***0.0005***
Potassium	mg/L	0.1	0.3	***0.3***	***0.1***	***0.2***
Sulfur	mg/L	6.8	6.9	***6.9***	***6.8***	***6.85***
Selenium	mg/L	0.0003	0.0003	***0.0003***	***0.0003***	***0.0003***
Strontium	mg/L	0.063	0.053	***0.063***	***0.053***	***0.058***
Silver	mg/L	0.000005	0.000005	***0.000005***	***0.000005***	***0.000005***
Silicon	mg/L	1.76	1.79	***1.79***	***1.76***	***1.775***
Sodium	mg/L	0.6	0.8	***0.8***	***0.6***	***0.7***
Thallium	mg/L	0.000005	0.000005	***0.000005***	***0.000005***	***0.000005***
Tin	mg/L	0.00005	0.00005	***0.00005***	***0.00005***	***0.00005***
Titanium	mg/L	0.0002	0.005	***0.005***	***0.0002***	***0.0026***
Uranium	mg/L	0.0015	0.0014	***0.0015***	***0.0014***	***0.00145***
Vanadium	mg/L	0.0002	0.0002	***0.0002***	***0.0002***	***0.0002***
Zinc	mg/L	0.003	0.004	***0.004***	***0.003***	***0.0035***

For Max/Min/Mean calculations "<" values are 1/2 detection limits

Table 2. ATAC Resources - RAU Claims, October 2009

Total Metals Analysis Results.

Parameter	Units	RAU #1	RAU #2	RAU #3	RAU #4	RAU #5	RAU #6	RAU #7	RAU #8	RAU#9	RAU#10	Detection Limit	DWQ* G.Lines	Aquatic** G.Lines
Aluminum	mg/L	0.018	0.014	0.021	0.037	0.006		0.009	0.015	0.013	0.019	0.005		0.1
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.0007	**NO**	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	0.006	
Arsenic	mg/L	<0.0002	0.0004	0.0006	0.0022	0.0003	**SAMPLE**	0.0003	0.0004	0.0003	0.0004	0.0002	0.01	
Barium	mg/L	0.083	0.05	0.105	0.137	0.116		0.169	0.188	0.242	0.065	0.001	1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004		<0.00004	<0.00004	<0.00004	<0.00004	0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	0.001		
Boron	mg/L	<0.005	<0.005	0.006	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	0.004	5	
Cadmium	mg/L	0.00008	0.00002	0.00006	0.00003	0.00044		0.00002	0.00022	0.00006	0.00003	0.00001	0.005	0.0018
Calcium	mg/L	65.2	63.4	67	56.5	83		45.1	52.7	51.8	52.6	0.05		
Chromium	mg/L	0.0005	0.0005	0.0004	0.0004	0.0005		0.0005	0.0007	0.0005	0.0005	0.0004	0.05	0.002
Cobalt	mg/L	0.00008	0.00011	0.0001	0.0001	0.00011		0.00005	0.00006	0.00006	0.00013	0.00002		
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	0.001	1	0.004
Iron	mg/L	0.011	0.047	0.082	0.056	0.072		<0.01	0.022	0.016	0.082	0.01	0.3	0.3
Lead	mg/L	0.0002	0.0001	<0.0001	0.0002	<0.0001		0.0003	0.0003	0.0001	0.0002	0.0001	0.01	0.007
Lithium	mg/L	0.002	0.006	0.002	0.001	0.002		<0.001	<0.001	<0.001	0.003	0.001		
Magnesium	mg/L	8.02	16.4	19	21.2	32.1		24.8	20.2	17.3	21.7	0.05		
Manganese	mg/L	0.0055	0.0174	0.0092	0.0054	0.0131		0.0012	0.0048	0.0016	0.0134	0.0002	0.05	
Molybdenum	mg/L	0.0017	0.0005	0.0029	0.0013	0.0068		0.0002	0.0006	0.001	0.0008	0.00002		
Nickel	mg/L	0.002	0.002	0.002	0.001	0.012		<0.001	0.003	<0.001	0.003	0.001		0.15
Potassium	mg/L	0.2	0.4	1.2	0.6	0.9		<0.1	0.2	<0.1	0.4	0.1		
Sulfur	mg/L	15.6	21.2	10.7	9.9	13		10.8	11.2	7.2	16.2	0.1		
Selenium	mg/L	0.0039	0.0008	0.0016	0.0008	0.0032		<0.0006	0.0014	<0.0006	<0.0006	0.0006	0.01	0.001
Strontium	mg/L	0.126	0.133	0.087	0.074	0.182		0.04	0.058	0.055	0.157	0.001		
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.00001	0.00001		0.0001
Silicon	mg/L	2.98	3.12	2.76	2.53	3.02		2.12	1.74	1.94	2.38	0.05		
Sodium	mg/L	1.64	2.36	1.54	0.38	1.45		1.02	1.01	0.98	2.46	0.02	<200	
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.00002		<0.00001	<0.00001	<0.00001	<0.00001	0.00001		
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	0.0001		
Titanium	mg/L	0.012	0.003	0.008	0.012	0.021		0.015	<0.001	0.01	0.008	0.0004		
Uranium	mg/L	0.0021	0.0006	0.003	0.0029	0.0127		0.0015	0.0044	0.0014	0.0013	0.0004	0.02	
Vanadium	mg/L	0.0002	<0.0001	0.0002	0.0003	0.0003		0.0002	0.0002	0.0001	0.0002	0.0001		
Zinc	mg/L	0.007	0.008	0.004	0.013	0.077		0.007	0.055	0.01	0.006	0.001	<5	0.03
Mercury	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	nr	0.01	1	0.1

APPENDIX 3

Station Data Summaries (2008 and 2009)

Exova

www.exova.com

Lot# 110945

Control Number A136457

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

See reverse for your nearest Exova location and proper sampling protocol

Billing Address:	Copy of Report:	**Copy of Report To:**	Copy of invoice:
Company:		Company:	Send invoice to this address for approval ☐
Address: J. Gibson & Associates, Box 20111, Whitehorse, YT Y1A 7A2	QA/QC Report ☐	Address:	
Attention: John Gibson	Report Result: e-mail ☐	Attention:	Report Result: e-mail ☐
Phone: (867)633-4522	Results Online ☒	Phone:	Results Online ☐
Fax:	Fax ☒	Fax:	Fax ☐
Cell: (867)668-6895	Mail ☐	Cell:	Mail ☐
e-mail:		e-mail:	

Information to be included on Report and Invoice

Project ID: ATAC RESOURCES
Project Name: RAU CLAIMS.
Project Location:
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions.

Date Required: _____

Signature: _____

Sample Custody (Please Print)

Sampled by: J. GIBSON

Company _____ Signature

I authorize Exova to proceed with the work indicated on this form

Date: Initial:

Received by: RECEIVED OCT 30 2009 Temp.

Waybill #: Date

Company

Special Instructions / Comments

RCHEM = pH, EC, HARDT, ALKT, SO4, NH4, N2, N3, TSS, TDS, CL, TP.

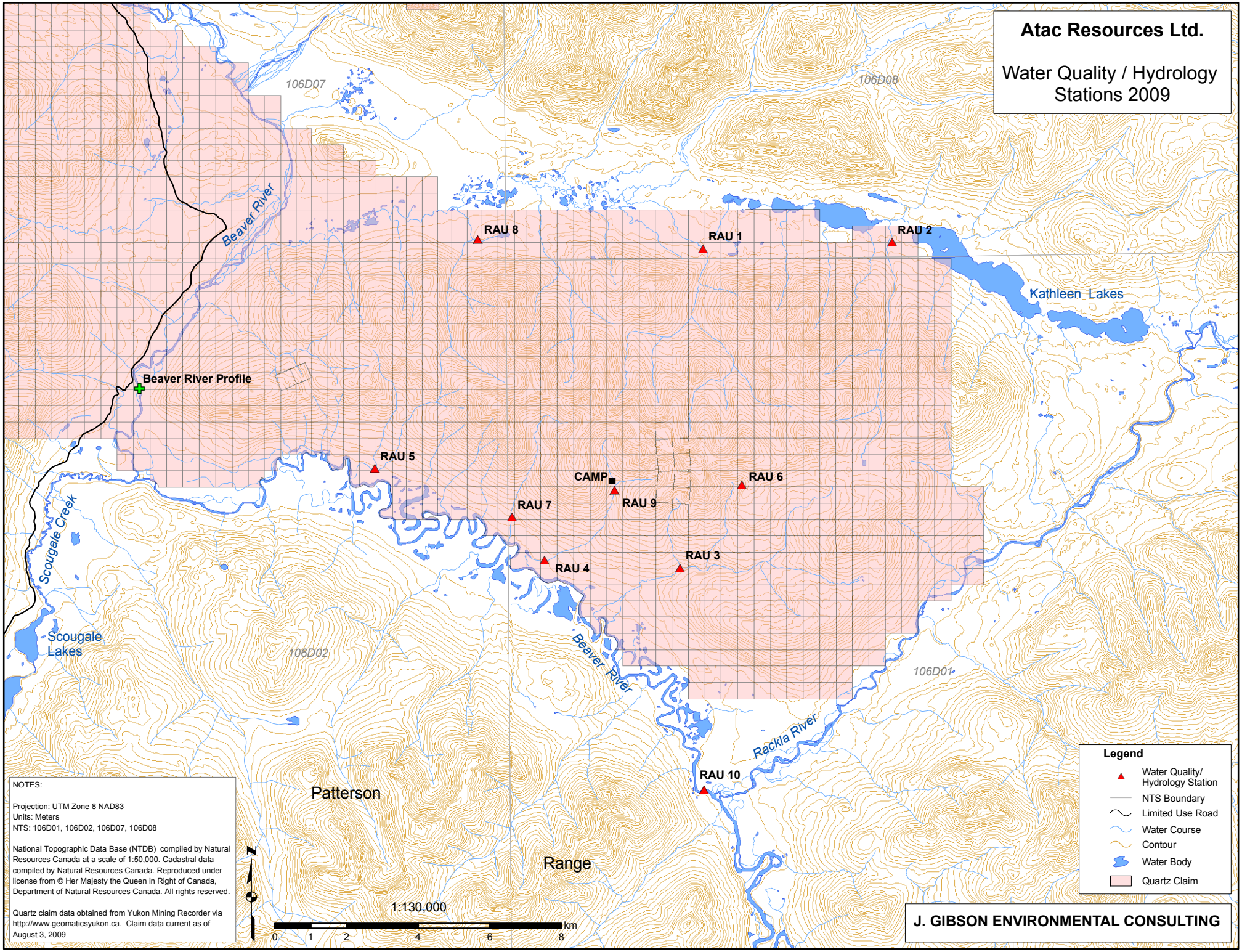
Please indicate which regulations you are required to meet:

☐ Health Canada Drinking Water Quality
☐ Alberta Tier 1
☐ Other: _____

Sample Identification	Location	Depth IN	Depth CM	Depth M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	TW21	TW22	THG	TCN	TOC
RAU #1	SURFACE				Oct 28	H2O	Grab	6	✓	✓	✓	✓	✓	✓
RAU #2	H2O				1100 hr			6	✓	✓	✓	✓	✓	✓
RAU #2 DUPLICATE					1100	↓	↓	2		✓	✓			
RAU #3	↓							6	✓	✓	✓	✓	✓	✓
RAU #4					↓			6	✓	✓	✓	✓	✓	✓
RAU #5								6	✓	✓	✓	✓	✓	✓
RAU #7								6	✓	✓	✓	✓	✓	✓
RAU #8								6	✓	✓	✓	✓	✓	✓
RAU #9								6	✓	✓	✓	✓	✓	✓
RAU #10								3	✓	✓	✓			
METALS + NITRIC / DISSMETALS FIELD FILTERED.														
TOC + HCL														
CN + NAOH.														

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1


Atac Resources Ltd.
Water Quality / Hydrology Stations 2009
106D07
106D08
106D02
106D01
Beaver River
Kathleen Lakes
Beaver River Profile
RAU 8
RAU 1
RAU 2
RAU 5
CAMP
RAU 6
RAU 9
RAU 7
RAU 3
RAU 4
RAU 10
Scougale Creek
Scougale Lakes
Beaver River
Rackla River
Patterson
Range
1:130,000
0 1 2 4 6 8 km
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 106D01, 106D02, 106D07, 106D08
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of August 3, 2009
Legend
Water Quality/ Hydrology Station
NTS Boundary
Limited Use Road
Water Course
Contour
Water Body
Quartz Claim
J. GIBSON ENVIRONMENTAL CONSULTING

APPENDIX IV

RAU ACCESS ROUTE WINTER WILDLIFE SURVEY
BY LABERGE ENVIRONMENTAL

Laberge
ENVIRONMENTAL SERVICES

MAIL: BOX 21072, WHITEHORSE, YUKON, Y1A 6P7
STREET: 405 OGILVIE STREET WHITEHORSE
E-MAIL: Laberge@northwestel.net
PH: (867) 668 6838 FAX: (867) 667 6956

!

May 4, 2010
Attention: Bill Wengzynowski

Re: Atac Resources Ltd. – Rau Access Route Late Winter Wildlife Survey

Bill,

The results of the winter wildlife survey along the proposed Rau property access road corridor is presented below. The survey was carried out by Grant Lortie and myself on March 4, 2010.

Low winter flow discharge measurements were carried out using the salt dilution technique at four stream crossings along the proposed road. These include Faro Creek, Scougale Creek, Cameron Creek and the Beaver River. Other stream crossings were either frozen solid or glaciated, making the flows immeasurable, the exception being the Keno Ladue River which was open but with a velocity so minute that it was not measurable.

These flow measurements are included in a separate attachment. Also attached are track log of the wildlife survey and a map showing the boundaries of the Rankin Creek burn where most of the moose were observed.

Stu Withers
stuwithers@xplornet.com
867-334-8300

Atac Resources Ltd. - Rau Access Route
Late Winter Wildlife Survey- 4 March 2010

Helicopter: Bell 206 | Pilot: Ben Drury

Observer: S. Withers | Observer Navigator: G. Lortie

Observation Conditions: Good - Excellent | Total Airtime: 6 Hrs. 10 mins.

Introduction:

The proposed Rau Access Route lies wholly within the Yukon Plateau North Ecoregion. A general descriptive overview of the bio-physical properties is found in reference (1), Ecoregions of the Yukon Territory (2006). More detailed biophysical information can be found in reference (2), Heart of the Yukon: A Natural and Cultural History of the Mayo Mining District.

No empirical government generated wildlife information is available along the proposed access (M. O'Donahue, Pers. Comm.), and no wildlife key areas were identified proximate to the route (M. Waterreus, pers. comm.)

Water quality and sampling work was conducted at five stations concurrent with the wildlife work.

Results:

Moose:

Moose were clearly the most conspicuous and abundant large mammal observed. The entire route, particularly that section between Gambler Lake and Lower Rankin Cr. was obviously an important wintering area. Recent helicopter and ground activity associated with route staking precluded our finding some moose along the route, but recent tracks, trails and visual observations confirm this assessment. Moose were especially evident on the lower slopes of the Davidson Range in the 1972 Burn (appendix 2)

Summary of Observed Moose:

Waypoint	Adult Female	Calf	Adult Male
011	7		
012			1
013			1
014	1		1
015			2
016	1		
021			2
025	1	1	
	10	1	7

In addition, an estimated further 15-20 moose of undetermined composition were not located from Waypoint 001-010 inclusive.

Results:

Moose (continued):

In general terms, population status can be surmised from repeated survey work on adjacent areas which indicates a stable, healthy moose population regionally that in recent years has reached maximum harvest levels (M. O'Donahue, Pers Comm.) However, the specifics of seasonal range use and timing of these events are not fully understood. For example, the known important rut; post rut aggregating areas in the subalpine zones on Keno Hill, Sourdough Hill and Bunker Hill suggest that similar habitats in the Davidson and Patterson Ranges immediately adjacent the route be investigated. Further, a determination of calving areas near the route be conducted. (See recommendations)

Woodland Caribou:

Caribou are presently not found in the immediate study area. (Ref. 2)

Cosewic Status: special concern

Mountain Sheep:

Formerly present on Keno Hill but hunted to extinction in the early 20th C. (Ref. 2)

Grizzly Bear:

Common in the region (Ref. 2)

Cosewic Status: special concern

Results:

Black Bear:

Common in the area (Ref. 2)

Fur Bearers:

Remaining large mammals, all carnivores are generally considered Fur Bearers: wolves, coyotes, foxes, marten, mink, lynx, wolverine and river otter are, to varying degrees, economically important to the registered trapline concessions and all are indigenous to the area. (Ref. 2)

Beaver and muskrat are also economically important and common in aquatic habitats in the region.

The presence of wolves are noted at Waypoint.

007 - tracks of 4-5 animals

017 - old kill site

019 - abundant older tracking of 8-10 wolves

Further at Waypoint 022 near open water, track of river otter

Trapping concessions: See recommendations

Outfitter concessions:

- Rouge River Outfitters have a voluntary No-Hunt agreement with the Mayo Regional Resources Council.

Birds:

A thorough and comprehensive narrative by O'Donahue (Ref.2) appends this report.

Three species of birds are cosewic listed. (T. Jung, pers. comm.)

- Common Nighthawk - threatened
- Rusty Blackbird - special concern
- Olive-sided Flycatcher - special concern

Water Stations: (photos)

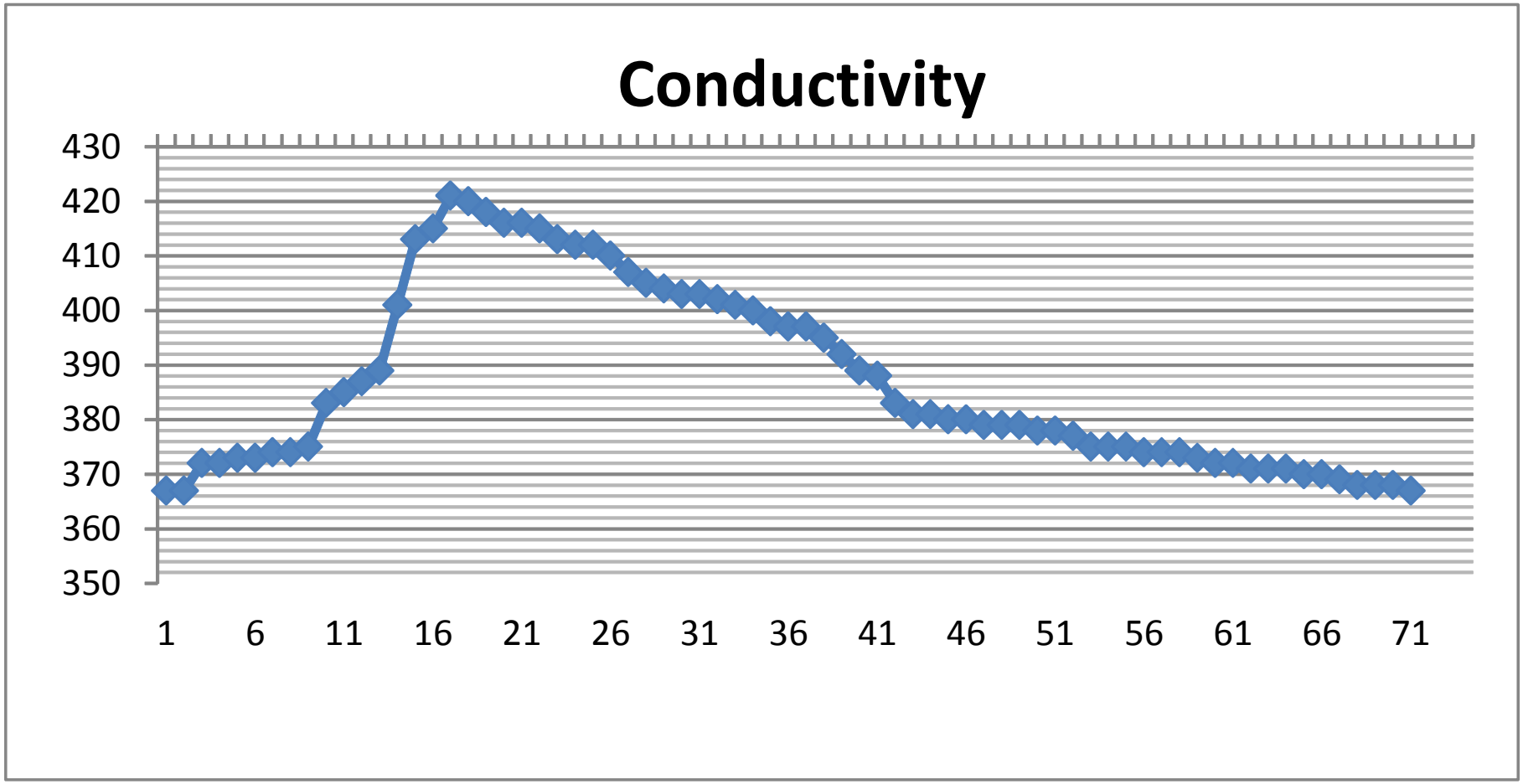
Waypoint 020: Beaver River
023: Scougale Creek
024: Cameron Creek
026: Keno-Ladue River
027: Faro Gulch

Recommendations:

1. An appraisal of Moose Calving and use of the route by waterfowl and aquatic Fur Bearers should be conducted sometime during a 20 May - 10 June Window.
2. Early winter (November) examination of the route and immediately adjacent uplands in the Davidson and Patterson Ranges to confirm rut and post rut activities (Moose).
3. In Mayo, conduct an interview-mapping exercise regarding the trap line concessions with the Dept. of Environment, YTG.

R-4	Scougale Creek							
Date	March 04/10	Stream	Scougale Creek d/s Clark Lakes			Discharge	0.177	m^3/s
time	13:40	Party	Withers/Lortie					
Sample	cond	dif		Geoff Kite 1994				
1	367	0		L1	natural conductivity			
2	367	0		L2	recorded conductivity			
3	372	5		t	sample time in seconds			
4	372	5		Ms	mass of salt kg			
5	373	6		Cs	conductivity of 1 gram NaCl in 1 m3 water uS/cm			
6	373	6		where				
7	374	7		Q=(1000*Ms*Cs)/t*sum(L2-L1)				
8	374	7						
9	375	8						
10	383	16						
11	385	18						
12	387	20						
13	389	22						
14	401	34		cond uS/cm	101	calculate		
15	413	46		salt needed kg	0.00	calculate		
16	415	48		salt used kg	1.0278	actual		
17	421	54						
18	420	53						
19	418	51						
20	416	49						
21	416	49						
22	415	48						
23	413	46						
24	412	45						
25	412	45						
26	410	43						
27	407	40		Time interval	10	seconds		
28	405	38		Q flow cms	2065.878	1164		
29	404	37		0.177480928	11640			
30	403	36	preparation					
31	403	36	conductivity meter, stopwatch, measuring tape, calculater					
32	402	35	salt in 1 kilo bags, mixing bucket					
33	401	34						
34	400	33	stream reach					
35	398	31	no loss or gain of water					
36	397	30	turbulent flow for mixing					
37	397	30						
38	395	28	measure background stream temperature and conductivity c5					
39	392	25	measure width and depth g14, g15					
40	389	22	measure distance between dosing and sampling greater than g16					
41	388	21	measure/estimate velocity g17					
42	383	16	dissolve g18 kg salt in water 200 g per liter					
43	381	14	pour salt into stream at time zero					
44	381	14	measure conductivity at sample point record when conducity begins to rise					
45	380	13	put data in table at 5, 10, 15 or 30 second intervals					

46	380	13						
47	379	12						
48	379	12						
49	379	12						
50	378	11						
51	378	11						
52	377	10						
53	375	8						
54	375	8						
55	375	8						
56	374	7						
57	374	7						
58	374	7						
59	373	6						
60	372	5						
61	372	5						
62	371	4						
63	371	4						
64	371	4						
65	370	3						
66	370	3						
67	369	2						
68	368	1						
69	368	1						
70	368	1						
71	367	0						


Conductivity
430
420
410
400
390
380
370
360
350
1
6
11
16
21
26
31
36
41
46
51
56
61
66
71

MOUNTAINS
Sullivan Hill
McKay Hill
Horseshoe Hill
Mount Good
Steamboat 6369± Mountain
Eagle Creek
Steamboat Lake
Eagle Lake
McQuesten River
EAGLE RIDGE
YUKON PLATEAU
Clark Lakes
Scraggle Lakes
Scraggle Creek
McQuesten Lake
East McQuesten River
Rambler Creek
Rambler Hill
DAVIDSON RANGE
Mount Cameron 6600±
Cache Creek
Forbes Hill
Zahn Hill
Stand-to Hill
Hanson Lakes
Ladue Lake
Ladue River
Haggart Creek
Haggart Dome 4917±
Lynx Dome
Lynx Creek
Potato Hills 5043±
Dublin Gulch
Ironrust Ck
Skate Creek
South McQuesten River
Cabins
Gambler
Cobalt Hill
PATTERSON RANGE
Mount Patterson 6852±
Beauvette Hill
Keno Hill 5069
Tailings
Radio
Aerial Cableway
Thistle Ck
Duke Creek
Keno
Ladue
001
002
003
004
005
006
007
008
009
010
011
012
013
015
016
017
018
019
020
021
022
023
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026
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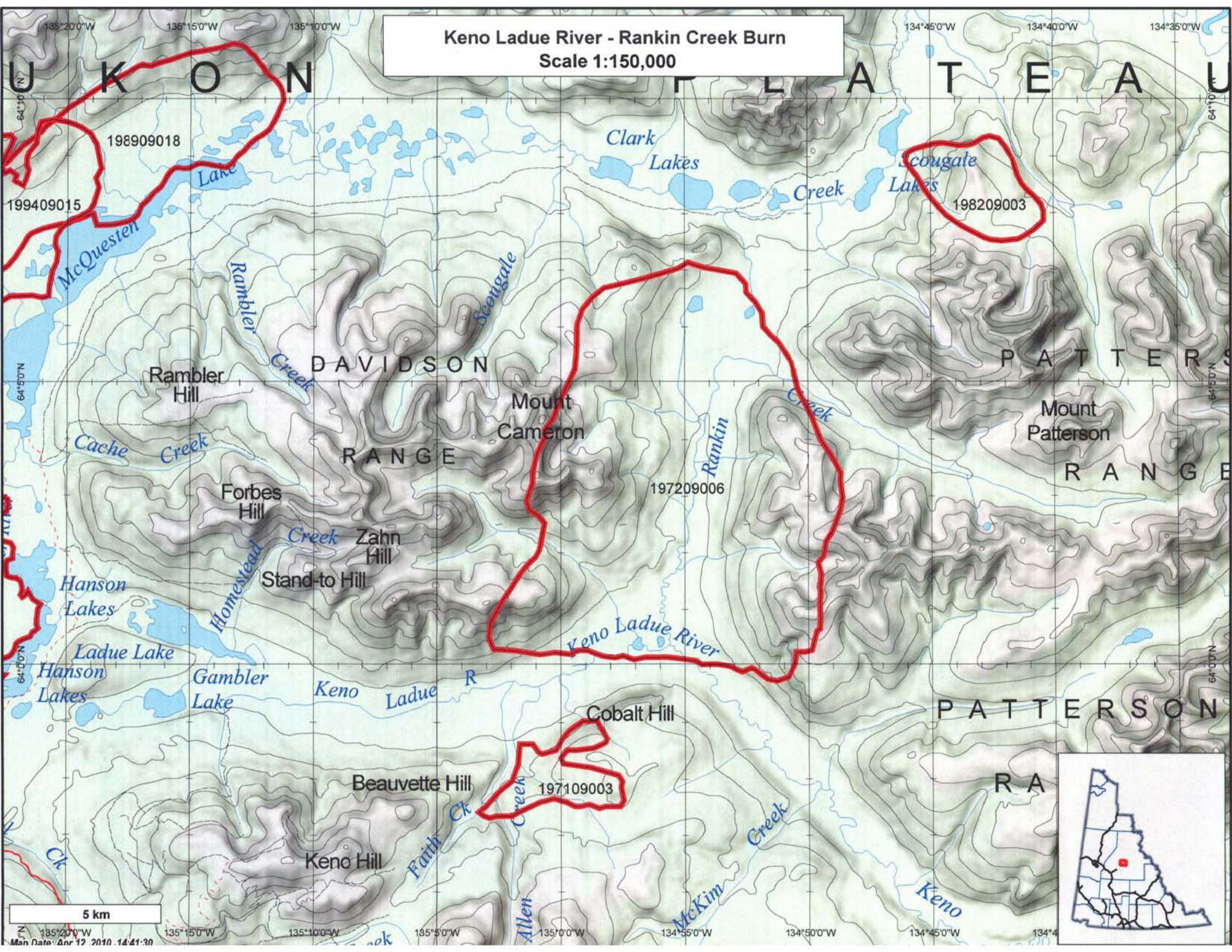
028


Keno Ladue River - Rankin Creek Burn
Scale 1:150,000
198909018
199409015
198209003
197209006
197109003
Clark Lakes
Scougale Lakes
Creek
McQuesten Lake
Rambler Creek
Scougale Creek
DAVIDSON RANGE
PATTERSON RANGE
Rambler Hill
Mount Cameron
Mount Patterson
Cache Creek
Forbes Hill
Zahn Hill
Stand-to Hill
Homestead Creek
Rankin Creek
Keno Ladue River
Hanson Lakes
Ladue Lake
Gambler Lake
Keno Ladue R
Cobalt Hill
Beauvette Hill
Keno Hill
Faith Ck
Allen Creek
McKim Creek
Keno
5 km
135°20'0"W
135°15'0"W
135°10'0"W
135°5'0"W
135°0'0"W
134°55'0"W
134°50'0"W
134°45'0"W
134°40'0"W
134°35'0"W
64°10'0"N
64°5'0"N
64°0'0"N
Map Date: Apr 12, 2010 14:41:30

APPENDIX V

HERITAGE RESOURCES OVERVIEW ASSESSMENT
BY MATRIX RESEARCH LTD.

Archaeological Consulting

Heritage Resources Overview Assessment of the Rau Property Proposed Pioneer Road Route, on Behalf of ATAC Resources Ltd.

Prepared by: Matrix Research Ltd.

Prepared for: ATAC Resources Ltd.

March, 2010

CONTACTS

Heritage Resources Overview Assessment of the Rau Property Proposed Pioneer Road Route, on Behalf of ATAC Resources Ltd.

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Ty Heffner, M.A., R.P.C.A.

March, 2010

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ACKNOWLEDGEMENTS

Matrix Research Ltd. would like to thank all of the people from the various organizations who contributed to the project. The project proponent was Bill Wengzynowski of Archer, Cathro & Associates (1981) Limited, on behalf of ATAC Resources Ltd. Bill supplied information and mapping for the study area.

Joella Hogan, Manager of Heritage and Culture, First Nation of Na Cho Nyak Dun assisted the project by researching traditional use and known heritage values.

Ruth Gotthardt at the Cultural Services Branch, Department of Tourism and Culture, Government of Yukon, discussed the proposed development with us and provided information on past heritage resources work in the study area. We thank her for her input and comments.

The opinions, recommendations, omissions, and / or errors in this report are those of Matrix Research Ltd. alone and do not necessarily reflect the positions held by the Proponent, the First Nation of Na Cho Nyak Dun, or Government of Yukon.

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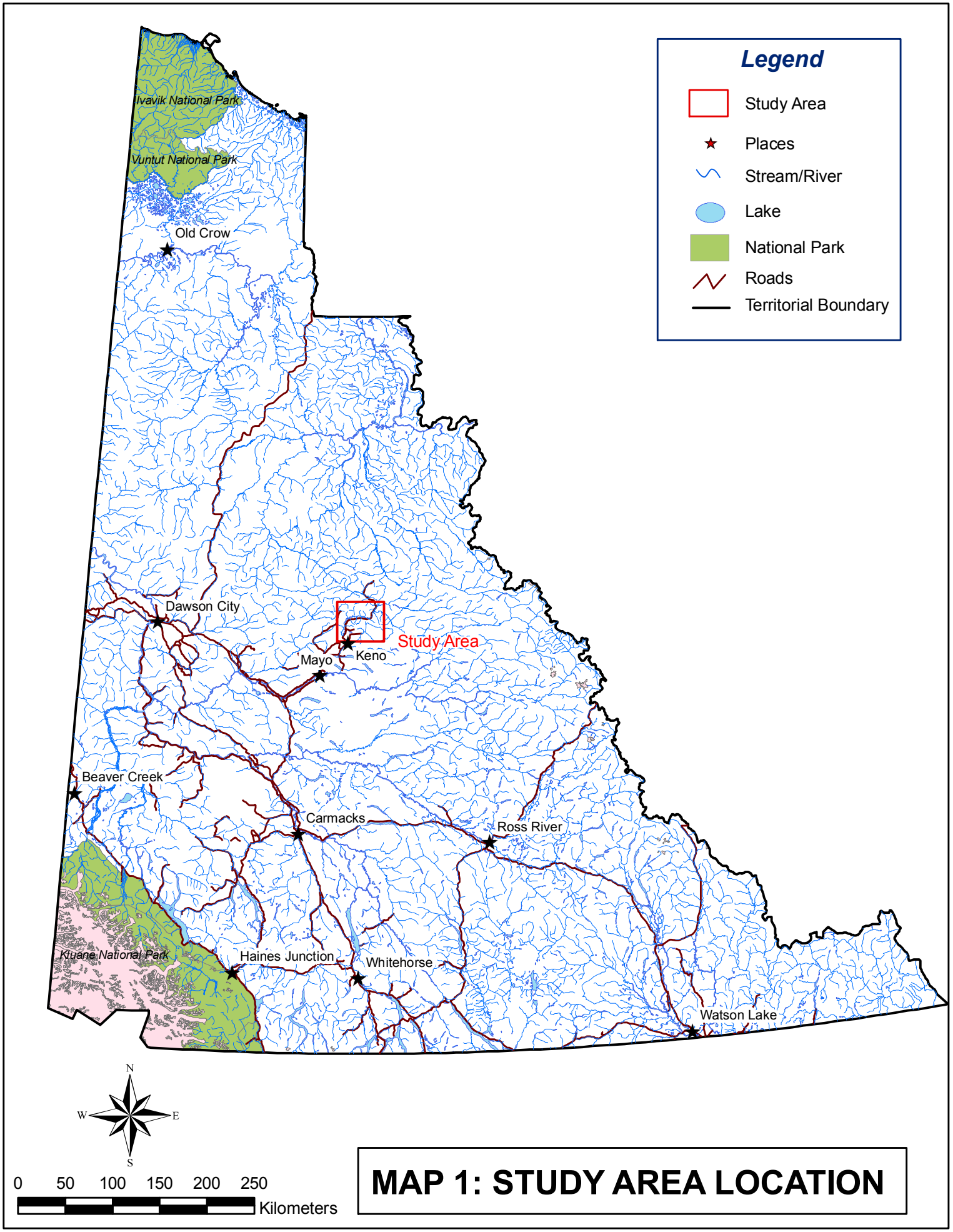
MANAGEMENT SUMMARY

This report details the results of a Heritage Resources Overview Assessment (HROA) for the Rau Property Proposed Road Route.

The HROA was anticipated to be required as part of the Yukon Environmental and Socio-economic Assessment Board (YESAB) proposed development review process. The objective of this heritage study was to determine the precontact heritage potential within the proposed road route area. Based on the HROA findings, numerous areas associated with hydrological features or significant topographical features have been classified as moderate to high heritage potential. It is recommended that further heritage resources investigations be conducted within the areas classified as moderate or high heritage potential. Given the long mining history of the area, it is anticipated that post-contact heritage resources will also be encountered within the proposed road route.

Heritage resources are protected from non-permitted alterations or disturbance by the *Historic Resources Act* (Government of Yukon 2002) and the *Archaeological Sites Regulations* (Government of Yukon 2003). To ensure that the discovery of any unanticipated heritage resources is addressed, it is recommended that the Proponent inform their personnel and contractors that, in the event that heritage resources are encountered, all development activities in the vicinity of the heritage resources must be suspended immediately. In such cases the Cultural Services Branch, Department of Tourism and Culture, Government of Yukon must be contacted immediately with information on the heritage remains and the nature of the disturbance. Information on the identification of heritage resources can be found in a publication entitled *Handbook for the Identification of Heritage Sites and Features* (Gotthardt and Thomas 2005).

This study was designed as a heritage resources overview assessment and was not intended to evaluate or comment on Traditional Aboriginal use of the areas in which development is proposed. The results of this study, therefore, should not be considered valid for that purpose.



MAP 1: STUDY AREA LOCATION

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Appendix A: Glossary of Archaeological Terms

1.0 INTRODUCTION

This report details the results of a Heritage Resources Overview Assessment (HROA) for the proposed Rau Property Proposed Road Route. This study was conducted at the request of Archer, Cathro & Associates (1981) Limited on behalf of ATAC Resources Ltd.

ATAC Resources Ltd. is conducting mineral exploration within their Rau Property. To support these activities they are proposing a pioneer road route for fall and winter access to the property, with possible potential for upgrade to an all-season road should the need arise. The majority of the proposed route is located on ATAC Resources Ltd. quartz claims. The route begins at Hanson Lake Road, north of Keno, and follows the Keno-Ladue, Rankin Creek, and Scougale Lakes valleys to its terminus at the Beaver River.

The HROA was anticipated to be required as part of the Yukon Environmental and Socio-economic Assessment Board (YESAB) proposed development review process. The objective of this heritage study was to determine the heritage potential within the proposed road route.

1.1 Report Format and Distribution

This report is divided into seven sections and one appendix.

Section 1: Introduction

This section introduces the HROA, the relevant legislative references and definitions and a summary of contacts made with First Nations.

Section 2: Project Description

This section discusses the intent of the heritage assessment in relation to the proposed development.

Section 3: Project Area

This section describes the location of the HROA study area and contains a map showing its geographical setting. A brief overview of previous archaeology within the area is also presented.

Section 4: Methodology

This section discusses the methods used while conducting the heritage assessment.

Section 5: Results

This section summarizes the results of the HROA.

Section 6: Recommendations

This section provides recommendations for the management of heritage resources potential identified during the HROA.

Section 7: References Cited

This section lists bibliographic information for all references cited in this report.

Appendices

Included with this report is one appendix containing a glossary of archaeological terms.

1.2 Legislative References

Legislation that ensures the management and protection of archaeological and historical resources is found in the *Historic Resources Act* (Government of Yukon 2002) and *Archaeological Sites Regulations* (Government of Yukon 2003). This legislation applies to archaeological and historical sites older than 45 years whether they are located on public or private land.

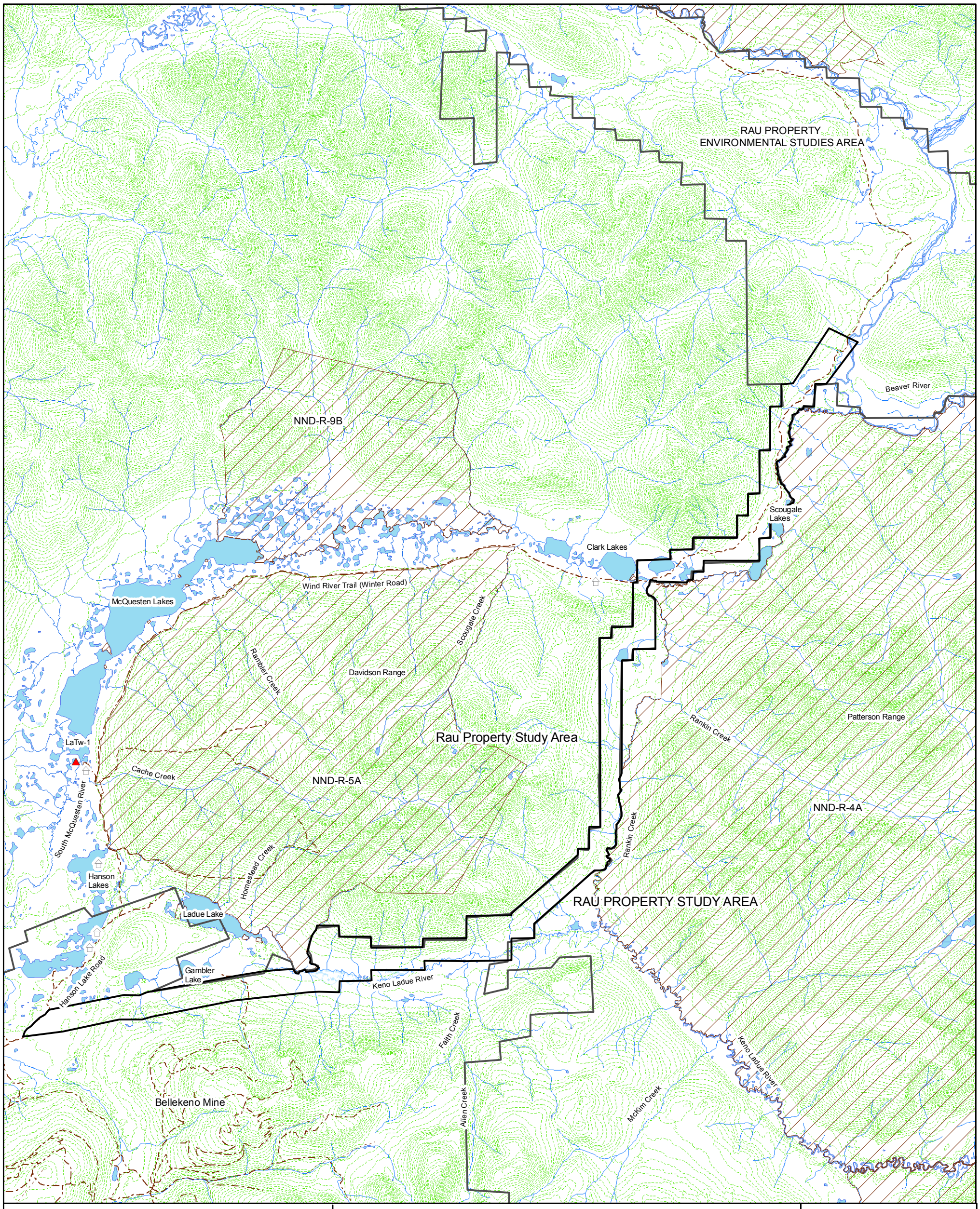
1.3 First Nations Referral and Correspondence

The area assessed during this study is located within the First Nation of Na Cho Nyak Dun (FNNND) Traditional Territory. Matrix Research Ltd. contacted FNNND to initiate discussion concerning the heritage resources overview assessment and to obtain any existing traditional land use information or oral history pertinent to the study area. Joella Hogan, Manager of Heritage and Culture for FNNND researched and provided information on traditional use and known heritage values within the proposed development area.

2.0 PROJECT DESCRIPTION

The aim of a Heritage Resources Overview Assessment (HROA) is to assess the potential for heritage resources (such as archaeological or historic sites) within a proposed development area and to make recommendations concerning the need and scope for further heritage studies.

The Rau Property Proposed Pioneer Road Route is currently in the planning stage. The development consists of the proposed road route and surrounding claim corridor. This proposed road is to consist of a pioneer access road for fall and winter use, connecting the existing Hanson Lake Road to the Rau Property.



MAP 2:
NTS STUDY AREA LOCATION MAP

Proponent: ATAC Resources
Development: Rau Property Proposed Road Route
Location: Keno Ladue River
NTS Map Sheet: 106 D/2, 106 D/3,
105 M/14, 105 M/15

Date: March 11, 2010

UTM Area Center: 8W E 503954 N 7106094
Job #: M10-003-Rau

LEGEND

- Claim Boundary
- Study Area
- Road
- River/Stream
- 30m Contour
- Large Stream/Lake
- Cabin
- Previously Recorded Site
- First Nations Settlement Lands

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MATRIX Research Ltd

3.0 PROPOSED DEVELOPMENT AREA

3.1 Natural Setting

The proposed development area is located within the Yukon Plateau-North ecoregion of the Yukon, approximately 118 km northeast of Stewart Crossing and approximately 62 km northeast of the community of Mayo. The proposed road route is situated in the valley between the Davidson Range and Patterson Range approximately 4.0 km southwest of McQuesten Lakes.

The ecoregion is characterized by a series of plateaus and valleys located northeast of the Tintina Trench. Forest cover is comprised mainly of lodgepole pine and black and white spruce up to elevations of 1500 m. At higher elevations shrub birch, scattered pine, white spruce and subalpine fir form the forest cover with lichen understory. Vegetation turns to shrub and lichen tundra with increasing elevation. Temperatures in the ecoregion are the most extreme of the Yukon ranging from -62^{o}C to +36^{o}C in the valley areas, with higher terrain experiencing less extreme ranges in temperature. Annual average precipitation of the ecoregion is ~ 300 mm with areas in the east receiving upwards of 600 mm of precipitation (Smith *et al.*, 2004).

Permafrost is present in most of the ecoregion for 90% of the year with areas on southern slopes experiencing thaw during the summer months. The ecoregion was covered by the McConnell glaciations with some evidence for the presence of Reid and pre-Reid glaciations found above and beyond the western limit of the McConnell glaciations. Deglaciation occurred approximately 10,000 years ago, leaving extensive areas of kettle kame topography and glacial lakes in the many valleys of the region (Smith *et al.*, 2004).

Sediments in the higher elevations consist of thin blankets of weathered bedrock, with till found at middle to low elevations. On the valley floors glaciofluvial sand and gravel with glaciolacustrine deposits found in the west. The glaciofluvial sand and gravel have variable thickness and composition however they are usually stable surfaces. The glaciolacustrine sediments can be upwards of 18 m thick in areas such as the Keno-Ladue River valley and the Stewart River valley (Smith *et al.*, 2004).

3.2 Post-contact History

The ecoregion contains considerable potential for metallic mineral deposits and has had many mines throughout the region with more in the planning stages. Due to the high quality mineral deposits many non-aboriginals were drawn to the area. In the 1890s the first prospectors panned the McQuesten and Stewart Rivers, eventually moving northeast to the Sheep Mountain (later called Keno Hill) area. It was here in 1918 that Louis Bouvette found silver rich galena in loose rocks and staked a claim called

Roulette. Within a few years most of the Keno Hill area had been staked with claims and a town was established at Keno City. These claims were worked on and off until 1989 when the mine closed and the communities of Keno City and nearby Elsa all but disappeared. Remnants of the mining industry can still be seen on the landscape today with old roads, trails, tramways and buildings dotting the old mine area (Yukon Development Corporation 2004).

A portion of the Wind River Trail is located inside the northern extent of the Rau Property Proposed Road Route. The Wind River Trail, also known as the Amerada Road and Proctor's Trail was constructed in 1959 for the Amerada Petroleum Corporation as only 30 miles of the Dempster Highway had been completed at that time. The Wind River Trail initially consisted of a winter road of packed snow wide enough to haul oil well drilling equipment and supplies to their camps on Eagle Plains. The road was later upgraded to a summer use road as far as McQuesten Lakes (Yukon Heritage 2009).

3.3 Ethnography and Traditional Use

The area surrounding the proposed Rau Property Proposed Road Route is within the traditional territory of the First Nation of Na Cho Nyak Dun (FNNND), who are Northern Tutchone. The following brief review of Northern Tutchone ethnography is taken from McClellan (1981) and Thomas (2003). Emphasis has been placed on material culture, seasonal round and subsistence strategies as they relate to activities that are most likely to have left physical evidence of past human use.

The Northern Tutchone are members of the Athapaskan language family and are organized into two moieties, the Crow and the Wolf, with matrilineal inheritance. These moieties determined who people could marry and where they could fish or hunt as they were forbidden to marry people from within the same moiety. The primary political unit was the regional group made up of five to ten nuclear families sharing a common chief (*dän co*) however this group may not have lived together for the entire year (Thomas 2003). The Northern Tutchone seasonal subsistence round involved the summer aggregation of the group at selected fishing camps chosen for the availability of migrating salmon. Settlement near these locations involved several families who used the same fishing location each year. Berry gathering and preservation was also carried out at this time of year. A variety of berries and roots were available and constituted an important food source. By late summer there was a dispersal of the group into the upland region as food stores required additions or replenishment. Game was now sought to be dried for winter caches. Caribou, moose, mountain goat and sheep and bear were among the large game animals taken with hare and beaver also trapped / hunted for their fur and food. In December and January the people usually regrouped to share stored foods but once again dispersed by late winter to find game. Food storage was accomplished through the use of storage caches near the main dwellings. The food was generally dried or smoked on drying racks (McClellan 1981).

The Northern Tutchone built conical or rectangular lean-tos with a tied pole framework, brush walls, and roofs of moss, bark or skin. These structures would often house several families sharing a central fireplace. Near the main dwellings meat and fish drying racks would be erected, racks for boat frames and toboggans, frames for skin tanning and smoking, as well as small huts for menstruants and parturients nearby. No excavation was required for a main foundation and evidence of postholes and central hearths are the primary features most likely to be found archaeologically for such structures. During the winter when groups dispersed, domed winter tents of caribou or moose hide were stretched over frameworks of saplings.

A wide variety of implements were used for hunting, fishing, and plant food gathering. Stone tools (projectile points, knives, scrapers, and flaking debris) are implements commonly recovered in archaeological contexts. In some cases these hunting / fishing implements were made from antler, bone and native copper which are sometimes recovered on archaeological sites depending on preservation conditions. During ethnographic and historic times, many kinds of traps, snares, corrals and hunting blinds were used and still can be seen on the landscape today. Box and funnel traps were used in conjunction with weirs were used to catch salmon, trout, pike and large whitefish. Dip nets, gill nets, leisters, hooks, gaffs, spears and lines were also used to catch fish (McClellan, 1981).

Oral history from the Germaine family indicates that they trapped and hunted in the area surrounding Keno Hill and McQuesten Lakes for generations as the valley is rich in moose, beaver, martin and lynx. They also stated that the McQuesten Lakes have lingcod, whitefish, pike and inconnu and that the family set nets in the narrows of an emptying creek. The area was also a good source of blueberries in the summer. Later, after the prospectors started to settle, the Germaines provided fish and wild game to the mining camps (Yukon Development Corporation 2004).

Oral tradition also recounts that Fort Selkirk Indians traditionally travelled the Stewart River country to trap and hunt. Mayo Elder Sam Peter stated that from Fort Selkirk, they travelled up the McQuesten River (Et'O Nyak) to the Beaver River (Mayo Historical Society 1990).

Currently, members of the First Nation Na Cho Nyak Dun, have cabins in and around McQuesten Lakes and Clark Lakes. The region is known for good hunting and fishing (Joella Hogan, pers. comm.).

3.4 Previous Heritage Work

No information could be found for previous archaeological or heritage survey work that has been undertaken in the proposed development area.

One archaeological site, **LaTw-1**, located at the south end of McQuesten Lakes, consisting of lithic artifacts, debitage, bone and charcoal was incidentally identified and recorded in 1957 by MacNeish (57-2ASR). No further work has been completed at this site.

4.0 METHODOLOGY

The following section describes the methods used for the Heritage Resources Overview Assessment (HROA). The background information summarized in Section 3.0 was considered along with review of airphotographs and satellite imagery to produce a preliminary assessment of heritage resources potential in the study area. The results of the HROA are presented in Section 5.0.

4.1 Heritage Resources Overview Assessment

All available maps, digital elevation models, satellite imagery, airphotographs, ethnographies, histories, and archaeological reports for the study area were examined. Criteria used to determine potential for heritage resources included: proximity to streams and water bodies, known heritage sites, known aboriginal or historic trails, topography, vegetation cover, and presence of fish and wildlife habitat.

4.2 Limitations of the HROA

Given that there is only one previously recorded site within close proximity to the study area the criteria used to determine heritage resources potential during this study was primarily derived from previous experience in comparable areas throughout the Yukon. The lack of detailed information on environmental and geomorphological changes throughout the glacial and post-glacial periods, ethnographic data, the very few heritage studies conducted in this area, and the low number of known sites within the immediate study area, significantly limits our current understanding of past settlement patterns and land use of the area.

When viewing the HROA results it is important to note that low potential does not mean **no** potential. It is possible for heritage sites to be located outside of areas identified as having moderate or high heritage resources potential. To ensure that the discovery of any unanticipated heritage resources is addressed, it is recommended that the Proponent inform their personnel and contractors that, in the event that heritage resources are encountered, all development activities in the vicinity of the heritage resources must be suspended immediately. In such cases the Cultural Services Branch, Department of Tourism and Culture, Government of Yukon must be contacted immediately with information on the heritage remains and the nature of the disturbance.

5.0 RESULTS

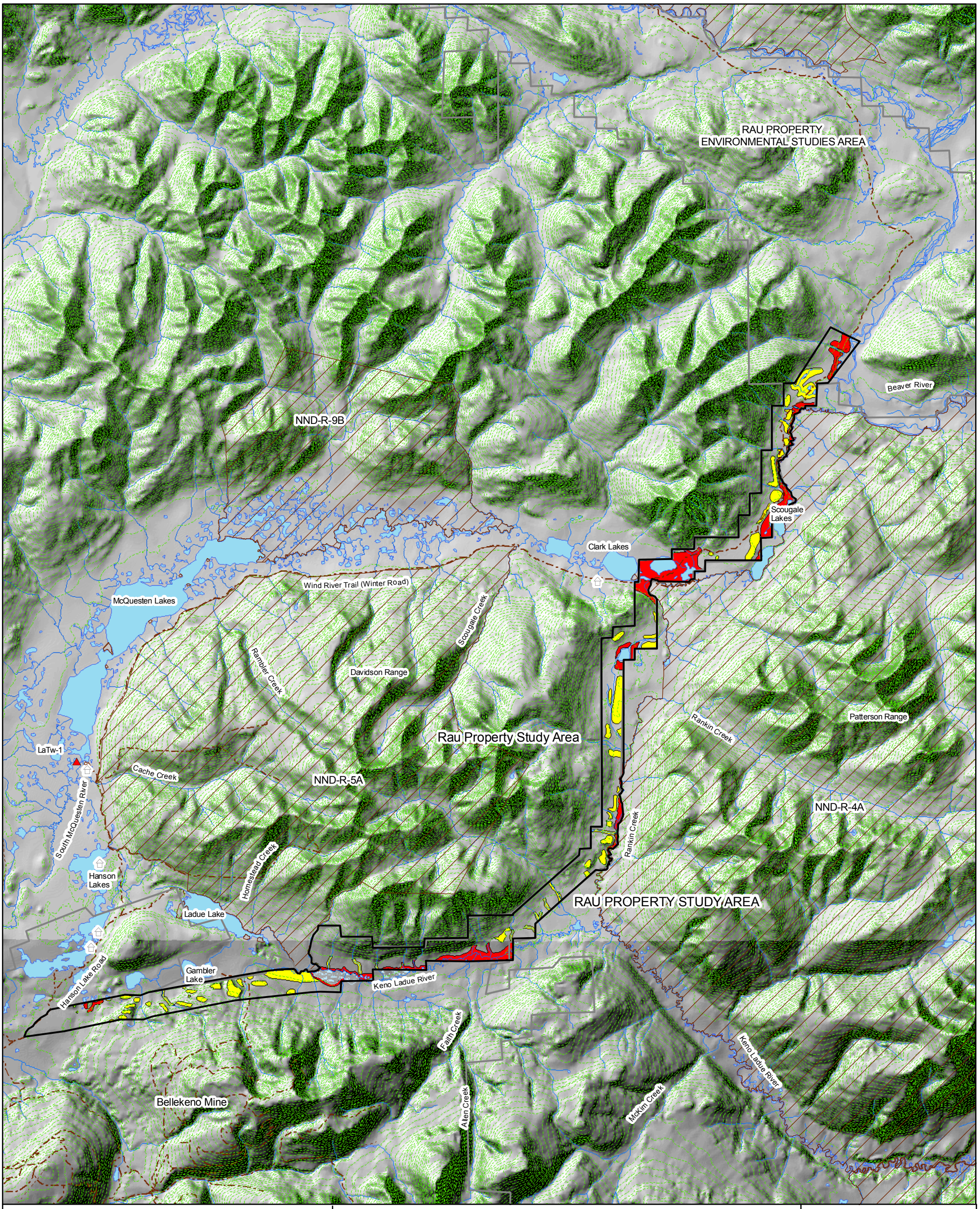
5.1 HROA Results

The land base in the study area has been classified into zones of heritage potential. Heritage potential is rated as high, moderate, or low. It is important to note that low potential does not mean no potential and it is possible for heritage resources to be encountered anywhere in the study area. Zones of heritage potential are portrayed as polygons on the enclosed map (Map 3). GIS shapefiles are also provided so that these HROA polygons can be overlaid onto development planning maps.

The proposed pioneer road route is contained within the valley between the Davidson and Patterson Ranges providing a natural overland thoroughfare between McQuesten Lakes and Beaver River. Numerous unnamed drainages, small creeks, rivers and lakes are located within the Rau Property Proposed Road Route and claim corridor. Many of these small tributaries feed major creeks and rivers such as Rankin Creek, Keno Ladue River and Beaver River. These smaller tributaries and associated landforms have been given a rating of moderate heritage resource potential and have been buffered by a minimum of 50 m on either side of the drainage.

Larger waterways such as Keno Ladue River, Rankin Creek and Beaver River and their associated landforms have been buffered by a minimum 100 m and have been given a rating of high heritage resource potential due to their possible past use as fishing, hunting and trapping areas. In addition the area surrounding Clark Lakes and their associated wetlands, as well as large wetlands throughout the proposed development route have been highlighted as areas of high heritage potential due to the potential past use of these areas for hunting and trapping.

All other areas highlighted are of moderate heritage resource potential due to topographical features such as terraces, knolls and ridges associated with significant water features such as streams, wetlands and small lakes all of which are tributary to the main water systems: Rankin Creek, Beaver River, Keno Ladue River and the McQueston Lakes and wetlands. These areas are considered to have moderate precontact heritage resources potential as they are on well drained topographic features or are in upland areas on prominent landforms that provide good vantage points or strategic hunting positions.



MAP 3: ARCHAEOLOGICAL OVERVIEW ASSESSMENT MAP

Proponent: ATAC Resources
Development: Rau Property Proposed Road Route
Location: Keno Ladue River
NTS Map Sheet: 106 D/2, 106 D/3,
105 M/14, 105 M/15

Date: March 11, 2010

UTM Area Center: 8W E 503954 N 7106094
Job #: M10-003-Rau

LEGEND

- Claim Boundary
- Study Area
- Road
- River/Stream
- 30m Contour
- Large Stream/Lake
- Cabin
- Previously Recorded Site
- First Nations Settlement Lands
- Moderate Archaeological Potential
- High Archaeological Potential

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MATRIX Research Ltd

6.0 HERITAGE RESOURCE MANAGEMENT RECOMMENDATIONS

This section provides recommendations, including a discussion of gaps in heritage data, a prediction of the type and number of sites expected, and a discussion of the options for managing heritage sites during development planning.

6.1 Gaps in the Heritage Resources Record of the Study Area

No systematic archaeological survey has been undertaken in and around the proposed road route. The lone previously identified archaeological site, **LaTw-1**, located at the southern end of the McQuesten Lakes in 1957 was incidentally discovered and has not been revisited. Consequently, regional site density and distribution is relatively unknown. Likewise, post-contact heritage resources have not been surveyed or documented in the study area.

6.2 Heritage Resource Potential and Resource Values

A significant portion of the study area is considered to have precontact heritage resources potential. Areas considered to have high to moderate precontact heritage resources potential are typically near hydrological features on distinct, well-drained topographic features or are in upland areas on prominent landforms that provide good vantage points or strategic hunting positions. Generally, moderate and high potential areas are more frequent along major water features, such as wetlands, creeks and rivers in the bottom of the valley. This is because the valley would have provided an easier route of travel through the mountain ranges and provided access to game and fish associated with numerous hydrological features along the valley floor. From the archaeological record, it is inferred that larger, more permanent sites will be positioned adjacent to the major hydrological features (i.e., McQuesten Lakes, Beaver River and Keno Ladue River).

It is expected that most precontact heritage sites in the proposed road route area will consist of small, short-term camps related to hunting, trapping, or travel activities. Sites resulting from these activities are normally manifested as small lithic scatters; however, local environmental and geological conditions such as frozen sediments may support the preservation of some organic materials. The remains of structures are not expected to be readily visible in this area given the short-term settlement occupation, but there may be evidence of cultural depressions.

In addition, it is expected that post-contact mining sites will be located within the proposed development area due to the numerous mines and mining related activity throughout the area since the 1890s. These sites may consist of tramways, buildings, roads and trails as well as mine sites and mining equipment.

6.3 Heritage Resource Management Options

Numerous areas within the Rau Property Proposed Road Route are assessed as having moderate to high heritage potential. A Heritage Resources Impact Assessment (HRIA) is recommended for these areas prior to any potentially ground-altering development activities. A HRIA offers the opportunity to ground-truth the heritage resources potential and can negate or confirm the presence of heritage resources. In the event that heritage resources are discovered in the development area, management options can be provided.

6.4 Recommendations

The areas identified as having moderate and high heritage resources potential are shown on Map 3 (Section 5).

It is recommended that a HRIA be carried out within the areas considered to have moderate and high heritage resources potential prior to the proponent undertaking any potentially land-altering development activities.

This study was designed solely as a Heritage Resources Overview Assessment and was not intended to evaluate or comment on Traditional Aboriginal use of the areas in which the development is proposed. The results of this study, therefore, should not be considered valid for that purpose.

7.0 REFERENCES CITED

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APPENDIX A

Glossary of Archaeological Terms

ABORIGINAL; INDIGENOUS: Pertaining to the original occupants of a given region.

A-HORIZON: the uppermost, often dark-coloured natural level in a soil profile characterized by roots, humus, and a lack of clay, iron, carbonates and soluble salts which have leached to lower levels.

ARCHAEOLOGY: The science concerned with the recovery, analysis, description and explanation of the remains of past human cultures.

ARCHAEOLOGICAL SURVEY OR SITE INVENTORY: Examination of a locality for evidence of past human activity and the recording of that evidence to produce an inventory of sites in that locality.

ARTIFACT: Any manually portable product of human workmanship. In its broadest sense includes tools, weapons, ceremonial items, art objects, all industrial waste, and all floral and faunal remains modified by human activity. In the Yukon, an artifact is an object that is older than 45 years and has been abandoned.

BARK-STRIPPED TREE: A tree which has had bark removed by First Nations people for a number of possible purposes (i.e. fibre, food, medicine)

BASALT: A fine-grained volcanic rock used for the manufacture of chipped stone artifacts. Colour ranges from black to grey; texture granular to glass like.

B-HORIZON: That natural level within a soil profile which directly underlies the surficial A-horizon and which contains the clay, iron oxides and carbonates which have leached down from it.

BIFACE: A stone artifact flaked on both sides.

BORDEN NUMBER: A standardized number consisting of four letters and one number assigned to each archaeological site which identifies it and denotes its general location in Canada.

BORDEN SYSTEM: A code of 4 letters and a number used to designate archaeological sites in Canada (e.g. GtRx 7; FlJr 10 etc.). Proposed by Charles E. Borden, University of British Columbia, in 1954. The alphabetic prefix refers a block of l0 minutes by l0 minutes within a grid system which covers all of Canada south of 62 N latitude. The numerical suffix indicates the site within this block in numerical order of registration.

CACHE: A deliberate store of equipment, food, furs or other resources placed in, or on the ground (perhaps protected by a rock CAIRN), or raised above the ground on a platform.

CACHEPIT: Small circular depressions (less than 3 m) that were used to store food.

CHALCEDONY: A semi-translucent silicate (quartz) rock with a wax-like luster and a great range of colours, used as raw material for the manufacture of chipped stone artifacts. Commonly called agate.

CHERT: A mainly opaque, fairly granular, silicate rock with a dull shiny luster and a great range of colours, used as raw material for the manufacture of chipped stone artifacts. Varieties include jasper and flint.

CONCHOIDAL FLAKE: A type of spall resulting from the fracture of fine-grained, or glassy rocks. Characterized by a bulb of percussion, striking platform remnant, and extremely sharp edges. A predictable fracture pattern that allows the manufacture of predetermined tools from these materials.

CONTACT: The time of first prolonged direct contact between First Nations peoples and Europeans. The term is synonymous with the Historic period which is characterized by contemporary written works.

CONTEXT: The spatial relationships of archaeological items and samples within a site. "Primary Context" refers to materials found in their original position; "Secondary Context" refers to materials which have been displaced and redeposited by disturbance factors; "Geological Context" is the relationship of the archaeological finds to geological strata.

CONCENTRATION: A notable accumulation of archaeological materials in a small area, such as a "concentration of flakes" etc.

CORE: (1) A blocky nucleus of stone from which flakes or blades have been removed (see MICROBLADE CORE). (2) A column or lineal sample of materials obtained by "coring" the ground, trees, etc.

CORTEX: The naturally weathered outer surface of a pebble.

CULTURE: The distinctive lifeway – including language, technology, sustenance, social organization, customs, beliefs and rituals – practiced by a people. This term can also be used to refer to the culture of particular groups of people at a particular point in time. In and archaeological context, the term culture refers to materials or objects of human origin, in contract to natural.

CULTURAL DEPOSIT: Sediments and materials laid down by, or heavily modified by, human activity.

CULTURAL DEPRESSION: A pit excavated by people into natural sediments. Pits have been excavated for a variety of reasons including: houses (pithouses, house pit), food storage (cache, cache pit), food cooking (roasting pit, berry trenches, hearth) and burials.

CULTURALLY MODIFIED TREE (CMT): A tree that had been intentionally altered in some way. CMTs usually consists of bark-stripped trees, that is, trees that have had the bark to access the cambium for eating, for extracting tree sap, for manufacture, or for medicinal purposes, by First Nations people. Blazed trees may also be referred to as CMTs.

CULTURE SEQUENCE: The chronological succession of cultural traits, phases or traditions in a local area.

CULTURE TYPE: A chronologically limited cultural unit within a local culture sequence, characterized by sufficient descriptive traits to set it apart from all other units. A phase is generally represented by 2 or more components in several sites and is the basic classification of archaeological "cultures".

DACITE: Volcanic rock (or lava) that characteristically is light in color and contains 62% to 69% silica and moderate a mounts of sodium and potassium.

DATUM: A fixed reference point on an archaeological site from which measurements are taken.

DEBITAGE: Waste by-products from tool manufacture.

DETRITUS: Waste by-products from tool manufacture. Most frequently applied to chips and fragments resulting from stone flaking.

DISTURBANCE: A cultural deposit is said to be disturbed when the original sequence of deposition has been altered or upset by post-depositional factors. Agents of disturbance include

natural forces such as stream or wind erosion, plant or animal activity, land-slides etc.; and cultural forces such as later excavations.

ETHNOGRAPHIC ANALOGY: Interpretation of archaeological remains by comparison to historical cultures.

ETHNOGRAPHY: That aspect of cultural anthropology concerned with the descriptive documentation of living cultures.

ETHNO-HISTORY: The study of ethnographic cultures through historical records.

ETHNOLOGY: The aspect of cultural anthropology concerned with the comparative and processional analysis of ethnographic cultures.

FAUNAL REMAINS: Bones and other animal parts found in archaeological sites. Important in the reconstruction of past ecosystems and cultural subsistence patterns (see: MICROFAUNAL REMAINS).

FEATURE: A non-portable product of human workmanship. Usually clusters of associated objects; pit houses, structures, hearths, cache pits, mining activities, cooking ovens, etc.

FLAKE: A fragment removed from a core or nucleus of cryptocrystaline or fine-grained rock by percussion or pressure. May be used as a tool with no further deliberate modification, may be RETOUCHED, or may serve as a PREFORM for further reduction.

FLINT: A microcrystaline silicate rock similar to CHERT, used for the manufacture of flaked stone tools. Colour most commonly grey, honey-brown, or black.

GROUND STONE: Stone artifacts shaped by sawing, grinding, and/or polishing with abrasive materials (e.g. "ground slate knives", "polished soapstone pendants" etc.).

HEARTH: A fireplace, often circular and may be unlined, rock or clay-lined, or rock-filled. Minimally consists of fire-altered rock and charcoal.

HERITAGE RESOURCES IMPACT ASSESSMENT (HRIA): A study undertaken for a proposed development project to determine whether it will adversely affect historical, archaeological, or paleontological remains, generally indicated by the presence of shovel tests.

HERITAGE SITE: A location of archaeological or historical interest that contains evidence of past human activities. Heritage sites may consist of artifacts or features.

HISTORIC ARCHAEOLOGY: The archaeological investigation of POST-CONTACT sites.

HISTORIC PERIOD: The time after European contact or the beginning of written recording. In the Yukon, this period dates to the past 100 to 150 years.

HORIZON: Layers typical of the soil profile in a particular region.

HOUSE-PIT: An aboriginally excavated house floor. See PITHOUSE.

IN SITU: Archaeological items are said to be "in situ" when they are found in the location where they were last deposited.

LITHIC: Of/or pertaining to stone. A lithic artifact is one manufactured from stone.

LITHIC INDUSTRY: That part of an archaeological artifact assemblage manufactured of stone.

LITHIC SCATTER: An archaeological site consisting of two or more stone artifacts.

LITHIC TECHNOLOGY: The process of manufacturing tools etc., from stone. Most frequently refers to stone flaking.

LOCALITY: A very large site or site-area composed of 2 or more concentrations or clusterings of cultural remains.

MATRIX: An inclusive term for the natural and cultural sediments of an archaeological site.

MICROFAUNAL REMAINS: Very small animal remains, such as rodent bones, tiny bone fragments, insects, small molluscs, etc., discovered in an archaeological site.

MIDDEN: A deposit of camp refuse associated with human occupational sites. Most frequently refers to coastal SHELL-MIDDENS.

MUNSELL COLOUR CODE: A system of describing colours by a code of letters and numbers defining "hue", "value" and "chroma". Important in accurately describing the colours of archaeological soils and sediments.

OBSIDIAN: Natural volcanic glass. Colour ranges from nearly translucent through black, red and green. The most easily flaked raw material for the manufacture of flaked stone tools.

PALEOSOL: "Old Soil." Buried soil horizons indicative of past soil conditions different from that presently prevailing.

PETROGLYPH: Pictures, symbols, or other artwork pecked, carved or incised on natural rock surfaces.

PICTOGRAPH: Aboriginally painted designs on natural rock surfaces. Red ochre is the most frequently used pigment and natural or abstract designs may be represented.

PITHOUSE: A semi-subterranean "earth-lodge" winter dwelling. Usually consisted of an earth-covered log framework roof over a circular to rectangular excavation. The archaeological feature is called a housepit.

POST-CONTACT PERIOD (Also "Historic Period"): Refers to the period following the first arrival of Europeans.

POT-HUNTER: An "amateur archaeologist" who vandalizes and destroys sites to add to his private collection, or for monetary gain.

PRE-CONTACT: Refers to the period before the first arrival of Europeans in a given area.

PREHISTORIC: The period prior to written records for any given area. In North America synonymous with PRE-CONTACT.

PRELIMINARY FIELD RECONNAISSANCE (PFR): A study undertaken for a proposed development project to determine whether it will adversely affect heritage remains, generally indicated by the lack of need for shovel tests.

PROJECTILE POINT: An inclusive term for arrow, spear or dart-points. Characterized by a symmetrical point, a relatively thin cross-section and some element to allow attachment to the projectile shaft. Flaked stone projectile points are usually classified by their outline form: triangular, leaf-shaped, lanceolate, stemmed, corner-notched, and side-notched.

PROVENIENCE: The horizontal and/or vertical position of an object in relation to a set of spatial co-ordinates.

QUARTZ CRYSTAL: Pure silicate rock-crystal. Usually perfectly clear with six crystal surfaces. May be used as a raw material for lithic tool manufacture.

RETOUCH: The removal of small secondary flakes along the edge of a lithic artifact to improve or alter the cutting properties of that edge. Retouch flaking may be BIFACIAL or UNIFACIAL.

RETOUCHED FLAKE: A stone flake which has had one or more edges modified by the deliberate removal of secondary chips.

ROCK-SHELTER: A shallow cave or rock overhang large enough to have allowed human occupancy at some time.

SCRAPER: A tool presumably used in scraping, scouring, or planing functions. Most frequently refers to flaked stone artifacts with one or more steep UNIFACIALLY RETOUCHED edge(s).

SETTLEMENT PATTERN: The spatial distribution of cultural activities across a landscape at a given moment in time.

SHOVEL-SCREENING: A rapid excavation procedure in which the site matrix is shoveled directly through a screen (usually 1/4" mesh).

SHOVEL TEST: a small scale, generally informal test excavation to ascertain the nature of the deposits, to determine the presence or absence of a heritage site, or to delimit the boundaries of a known site.

SITE: Any location with detectable evidence of past human activity. Includes HISTORICAL SITES, HABITATION SITES, KILL-SITES, QUARRY SITES, ROCK-ART SITES, BURIAL SITES, etc. See HERITAGE SITE.

SITE SURVEY: The process of searching for and describing heritage sites in a given area.

SOIL-SAMPLE: A quantity of soil, site matrix, or sediments collected for physical, or chemical analysis.

STORAGE-PIT (Also called CACHE-PITS): Circular excavations usually less than 3 m in diameter assumed to have aboriginally functioned as storage "cellars".

STRATA: Depositional units or layers of sediment distinguished by composition or appearance. (Singular: "stratum").

STRATIGRAPHY: The study of various deposits, built up over time, which form delineated layers (such as ash, charcoal or crushed shell) in the earth walls of a pit.

SURVEY(ING): (1) In Archaeology, the process of locating archaeological sites. (2) More generally, the process of mapping and measuring points on the ground surface.

SURVEY AREA: The region within which heritage sites are to be located.

TOOL: An artifact that has been intentionally modified or formed for a specific purpose (i.e. projectile point, knife, scraper).

TYPE: A distinctive formal artifact class restricted in space and time, e.g. the "Folsom Point" is a projectile point "type".

TYPOLOGY: The classification of artifacts according to analytical criteria, to determine and define significant trends or variations in time and space.

UNIFACE: A stone artifact flaked only on one surface.

USE-WEAR: Polish, striations, breakage, or minor flaking which develop on a tool's edge during use. Microscopic examination and study of the wear may indicate the past function of tools.

WETLAND: Areas of land that are inundated by surface water or ground water sufficient to support the growth and reproduction of vegetative and aquatic life.

WORKED: Having chips, flakes, scratches or other evidence of deliberate modification on stone, bone, antler, shell, etc.

ZOOARCHAEOLOGY: The study of faunal remains found in archaeological sites and their cultural significance.

Modified from:

A Glossary of Terms: Artifacts BC.
http://www.artifacts.gov.bc.ca/kosapsom/gloss.htm

A Glossary of Manitoba Archaeology
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MATRIX
Research Ltd

APPENDIX VI

CERTIFICATES OF ANALYSIS

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: February 12, 2010
Report Date: February 18, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN10000105R.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: Batch 5
P.O. Number
Number of Samples: 17

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
G601+G610	17	Fire Assay fusion Au by ICP-ES	50	Completed	VAN

ADDITIONAL COMMENTS

Re-analysis of Gold from original pulps.

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: February 18, 2010

CERTIFICATE OF ANALYSIS VAN10000105R.1

	Method	G6
	Analyte	Au
	Unit	gm/mt
	MDL	0.01
E687141	Core Reject	32.38
E687142	Core Reject	<0.01
E687143	Core Reject	0.08
E687144	Core Reject	0.01
E687145	Rock Pulp	1.59
E687146	Core Reject	15.79
E687147	Core Reject	18.80
E687148	Rock	<0.01
E687149	Core Reject	0.06
E687150	Core Reject	40.13
E687151	Core Reject	21.90
E687152	Rock	<0.01
E687153	Core Reject	15.34
E687154	Core Reject	35.01
E687155	Core Reject	32.13
E687156	Core Reject	27.71
E687157	Rock Pulp	0.36

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Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: February 18, 2010

QUALITY CONTROL REPORT VAN10000105R.1

		Method	G6
		Analyte	Au
		Unit	gm/mt
		MDL	0.01
Reference Materials			
STD OXH55	Standard		1.27
STD OXH55	Standard		1.20
STD OXK69	Standard		3.57
STD OXK69 Expected			3.583
STD OXH55 Expected			1.282
BLK	Blank		<0.01
BLK	Blank		<0.01
BLK	Blank		<0.01

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Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: February 12, 2010
Report Date: February 18, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN10000105S.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: Batch 5
P.O. Number
Number of Samples: 17

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
P200	16	Pulverize to 85% passing 200 mesh			VAN
XWSH	16	Extra Wash with Glass between each sample			VAN
G601+G610	16	Fire Assay fusion Au by ICP-ES	50	Completed	VAN

ADDITIONAL COMMENTS

Re-analysis of Gold from split rejects.

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Vancouver BC V6B 1L8
Canada

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Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: February 18, 2010

CERTIFICATE OF ANALYSIS VAN10000105S.1

	Method	G6
	Analyte	Au
	Unit	gm/mt
	MDL	0.01
E687141	Core Reject	31.06
E687142	Core Reject	0.02
E687143	Core Reject	0.07
E687144	Core Reject	0.01
E687145	Rock Pulp	1.17
E687146	Core Reject	I.S.
E687147	Core Reject	18.95
E687148	Rock	<0.01
E687149	Core Reject	0.06
E687150	Core Reject	42.22
E687151	Core Reject	22.38
E687152	Rock	<0.01
E687153	Core Reject	16.31
E687154	Core Reject	35.41
E687155	Core Reject	35.20
E687156	Core Reject	29.59
E687157	Rock Pulp	0.58

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Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: February 18, 2010

QUALITY CONTROL REPORT VAN10000105S.1

		Method	G6
		Analyte	Au
		Unit	gm/mt
		MDL	0.01
Pulp Duplicates			
REP G1	QC		0.01
E687148	Rock		<0.01
REP E687148	QC		<0.01
Reference Materials			
STD OXH55	Standard		1.27
STD OXH55	Standard		1.20
STD OXK69	Standard		3.57
STD OXK69 Expected			3.583
STD OXH55 Expected			1.282
BLK	Blank		<0.01
BLK	Blank		<0.01
BLK	Blank		<0.01
Prep Wash			
G1	Prep Blank		<0.01
G1	Prep Blank		0.01

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Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 13, 2010
Report Date: January 22, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000132.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: BATCH 4
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	35	Sorting of samples on arrival and labeling			VAN
MIXP	35	Mix pulps on arrival			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

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Vancouver BC V6B 1L8
Canada

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"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000132.1

	Method	G6	7KP
	Analyte	Au	W
	Unit	gm/mt	%
	MDL	0.01	0.005
E687263	Core Pulp	<0.01	<0.005
E687264	Core Pulp	<0.01	<0.005
E687265	Core Pulp	<0.01	<0.005
E687266	Core Pulp	<0.01	<0.005
E687267	Core Pulp	0.06	<0.005
E687268	Core Pulp	3.05	<0.005
E687269	Core Pulp	0.01	<0.005
E687270	Core Pulp	0.01	<0.005
E687271	Core Pulp	0.01	<0.005
E687272	Core Pulp	<0.01	<0.005
E687273	Core Pulp	<0.01	<0.005
E687274	Core Pulp	<0.01	<0.005
E687275	Core Pulp	15.08	0.030
E687276	Core Pulp	<0.01	<0.005
E687277	Core Pulp	0.02	<0.005
E687278	Core Pulp	<0.01	<0.005
E687279	Core Pulp	0.05	0.415
E687280	Core Pulp	0.03	<0.005
E687281	Core Pulp	<0.01	<0.005
E687282	Core Pulp	<0.01	<0.005
E687283	Core Pulp	0.02	<0.005
E687284	Core Pulp	<0.01	<0.005
E687285	Core Pulp	<0.01	<0.005
E687286	Core Pulp	<0.01	<0.005
E687287	Core Pulp	<0.01	<0.005
E687288	Core Pulp	<0.01	<0.005
E687289	Core Pulp	<0.01	<0.005
E687290	Core Pulp	21.68	<0.005
E687291	Core Pulp	0.04	<0.005
E687292	Core Pulp	0.04	<0.005

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Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000132.1

	Method	G6	7KP
	Analyte	Au	W
	Unit	gm/mt	%
	MDL	0.01	0.005
E687293	Core Pulp	0.02	<0.005
E687294	Core Pulp	33.98	0.027
E687295	Core Pulp	22.58	0.187
E687296	Core Pulp	18.93	0.014
E687297	Core Pulp	40.25	0.199

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1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

QUALITY CONTROL REPORT VAN10000132.1

	Method	G6	7KP
	Analyte	Au	W
	Unit	gm/mt	%
	MDL	0.01	0.005
Pulp Duplicates			
E687268	Core Pulp	3.05	<0.005
REP E687268	QC		<0.005
E687272	Core Pulp	<0.01	<0.005
REP E687272	QC	<0.01	
Reference Materials			
STD NBLG	Standard		<0.005
STD OXH55	Standard	1.17	
STD OXH55	Standard	1.15	
STD W107	Standard		0.438
STD W107 Expected			0.42
STD OXH55 Expected		1.282	
BLK	Blank	<0.01	
BLK	Blank	<0.01	
BLK	Blank		<0.005
BLK	Blank	<0.01	

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 13, 2010
Report Date: January 25, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000131.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: BATCH 3
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	35	Sorting of samples on arrival and labeling			VAN
MIXP	35	Mix pulps on arrival			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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www.acmelab.com

Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 25, 2010

CERTIFICATE OF ANALYSIS VAN10000131.1

	Method	G6	7KP
	Analyte	Au	W
	Unit	gm/mt	%
	MDL	0.01	0.005
E687228	Core Pulp	0.02	<0.005
E687229	Core Pulp	0.05	<0.005
E687230	Core Pulp	<0.01	<0.005
E687231	Core Pulp	0.06	<0.005
E687232	Core Pulp	0.02	<0.005
E687233	Core Pulp	0.03	<0.005
E687234	Core Pulp	0.03	<0.005
E687235	Core Pulp	0.02	<0.005
E687236	Core Pulp	0.03	0.011
E687237	Core Pulp	0.05	<0.005
E687238	Core Pulp	<0.01	<0.005
E687239	Core Pulp	0.09	<0.005
E687240	Core Pulp	0.03	<0.005
E687241	Core Pulp	15.04	0.134
E687242	Core Pulp	2.47	0.044
E687243	Core Pulp	0.07	<0.005
E687244	Core Pulp	0.05	<0.005
E687245	Core Pulp	<0.01	<0.005
E687246	Core Pulp	1.12	<0.005
E687247	Core Pulp	0.10	<0.005
E687248	Core Pulp	0.06	<0.005
E687249	Core Pulp	0.02	<0.005
E687250	Core Pulp	0.02	<0.005
E687251	Core Pulp	0.04	0.008
E687252	Core Pulp	1.07	<0.005
E687253	Core Pulp	0.09	<0.005
E687254	Core Pulp	0.05	<0.005
E687255	Core Pulp	0.05	<0.005
E687256	Core Pulp	0.06	<0.005
E687257	Core Pulp	0.03	<0.005

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1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 25, 2010

CERTIFICATE OF ANALYSIS VAN10000131.1

Method		G6	7KP
Analyte		Au	W
Unit		gm/mt	%
MDL		0.01	0.005
E687258	Core Pulp	0.04	<0.005
E687259	Core Pulp	0.07	<0.005
E687260	Core Pulp	28.29	0.005
E687261	Core Pulp	38.61	0.039
E687262	Core Pulp	33.39	0.099

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 25, 2010

QUALITY CONTROL REPORT VAN10000131.1

		Method	G6	7KP
		Analyte	Au	W
		Unit	gm/mt	%
		MDL	0.01	0.005
Pulp Duplicates				
E687232	Core Pulp		0.02	<0.005
REP E687232	QC		0.01	
E687239	Core Pulp		0.09	<0.005
REP E687239	QC			<0.005
E687248	Core Pulp		0.06	<0.005
REP E687248	QC		0.06	
Reference Materials				
STD NBLG	Standard			<0.005
STD OXH55	Standard		1.27	
STD OXH55	Standard		1.24	
STD OXK69	Standard		3.48	
STD W107	Standard			0.457
STD W107 Expected				0.42
STD OXK69 Expected			3.583	
STD OXH55 Expected			1.282	
BLK	Blank			<0.005
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank		<0.01	

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 13, 2010
Report Date: January 21, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000130.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: BATCH 2
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	35	Sorting of samples on arrival and labeling			VAN
MIXP	35	Mix pulps on arrival			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 21, 2010

CERTIFICATE OF ANALYSIS VAN10000130.1

	Method	G6	7KP
	Analyte	Au	W
	Unit	gm/mt	%
	MDL	0.01	0.005
E687193	Core Pulp	31.18	0.150
E687194	Core Pulp	0.25	<0.005
E687195	Core Pulp	2.49	0.006
E687196	Core Pulp	0.66	<0.005
E687197	Core Pulp	0.61	0.008
E687198	Core Pulp	0.06	<0.005
E687199	Core Pulp	0.67	0.012
E687200	Core Pulp	0.25	<0.005
E687201	Core Pulp	0.13	<0.005
E687202	Core Pulp	2.97	<0.005
E687203	Core Pulp	0.11	<0.005
E687204	Core Pulp	26.89	0.120
E687205	Core Pulp	0.63	<0.005
E687206	Core Pulp	0.09	0.005
E687207	Core Pulp	2.16	0.009
E687208	Core Pulp	1.46	0.010
E687209	Core Pulp	0.12	<0.005
E687210	Core Pulp	0.13	<0.005
E687211	Core Pulp	0.08	<0.005
E687212	Core Pulp	0.36	<0.005
E687213	Core Pulp	0.37	0.011
E687214	Core Pulp	0.15	<0.005
E687215	Core Pulp	0.20	<0.005
E687216	Core Pulp	0.11	<0.005
E687217	Core Pulp	14.01	0.008
E687218	Core Pulp	0.07	0.007
E687219	Core Pulp	0.76	<0.005
E687220	Core Pulp	0.13	<0.005
E687221	Core Pulp	0.11	<0.005
E687222	Core Pulp	1.04	<0.005

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1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 21, 2010

CERTIFICATE OF ANALYSIS VAN10000130.1

		Method	G6	7KP
		Analyte	Au	W
		Unit	gm/mt	%
		MDL	0.01	0.005
E687223	Core Pulp		0.14	<0.005
E687224	Core Pulp		0.79	<0.005
E687225	Core Pulp		0.11	<0.005
E687226	Core Pulp		0.28	<0.005
E687227	Core Pulp		3.62	0.185

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 21, 2010

QUALITY CONTROL REPORT VAN10000130.1

		Method	G6	7KP
		Analyte	Au	W
		Unit	gm/mt	%
		MDL	0.01	0.005
Pulp Duplicates				
E687226	Core Pulp		0.28	<0.005
REP E687226	QC			<0.005
Reference Materials				
STD NBLG	Standard			<0.005
STD OXH55	Standard		1.20	
STD OXH55	Standard		1.17	
STD OXK69	Standard		3.45	
STD W107	Standard			0.439
STD OXK69 Expected			3.583	
STD W107 Expected				0.42
STD OXH55 Expected			1.282	
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank			<0.005
BLK	Blank		<0.01	

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 13, 2010
Report Date: January 22, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000129.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: BATCH 1
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	35	Sorting of samples on arrival and labeling			VAN
MIXP	35	Mix pulps on arrival			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000129.1

Method		G6	7KP
Analyte		Au	W
Unit		gm/mt	%
MDL		0.01	0.005
E687158	Core Pulp	0.03	0.072
E687159	Core Pulp	1.59	0.015
E687160	Core Pulp	0.68	0.020
E687161	Core Pulp	1.41	0.040
E687162	Core Pulp	3.94	0.023
E687163	Core Pulp	5.98	0.016
E687164	Core Pulp	3.37	0.021
E687165	Core Pulp	18.23	0.032
E687166	Core Pulp	3.43	0.006
E687167	Core Pulp	2.70	0.027
E687168	Core Pulp	0.05	0.427
E687169	Core Pulp	2.97	0.019
E687170	Core Pulp	0.62	0.027
E687171	Core Pulp	3.62	0.015
E687172	Core Pulp	1.21	0.034
E687173	Core Pulp	4.29	<0.005
E687174	Core Pulp	<0.01	0.019
E687175	Core Pulp	0.45	0.068
E687176	Core Pulp	36.19	0.202
E687177	Core Pulp	<0.01	0.060
E687178	Core Pulp	9.48	0.043
E687179	Core Pulp	2.62	0.006
E687180	Core Pulp	4.57	0.025
E687181	Core Pulp	0.38	0.019
E687182	Core Pulp	1.93	0.016
E687183	Core Pulp	2.77	<0.005
E687184	Core Pulp	0.09	0.026
E687185	Core Pulp	4.72	0.049
E687186	Core Pulp	12.94	0.023
E687187	Core Pulp	0.38	0.017

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000129.1

	Method	G6	7KP
	Analyte	Au	W
	Unit	gm/mt	%
	MDL	0.01	0.005
E687188	Core Pulp	0.01	0.043
E687189	Core Pulp	0.59	0.456
E687190	Core Pulp	0.33	0.029
E687191	Core Pulp	1.11	0.027
E687192	Core Pulp	0.05	0.045

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Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

QUALITY CONTROL REPORT VAN10000129.1

		Method	G6	7KP
		Analyte	Au	W
		Unit	gm/mt	%
		MDL	0.01	0.005
Pulp Duplicates				
E687160	Core Pulp		0.68	0.020
REP E687160	QC		0.60	
E687174	Core Pulp		<0.01	0.019
REP E687174	QC			0.017
Reference Materials				
STD NBLG	Standard			<0.005
STD OXH55	Standard		1.25	
STD OXH55	Standard		1.17	
STD OXH55	Standard		1.15	
STD OXK69	Standard		3.41	
STD W107	Standard			0.458
STD OXK69 Expected			3.583	
STD W107 Expected				0.42
STD OXH55 Expected			1.282	
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank			<0.005
BLK	Blank		<0.01	
BLK	Blank		<0.01	

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 08, 2010
Report Date: January 22, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN10000105.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: Batch 5
P.O. Number
Number of Samples: 17

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
P200	15	Pulverize to 85% passing 200 mesh			VAN
CRU70	2	Crush to 70% passing 10 mesh			VAN
XWSH	15	Extra Wash with Glass between each sample			VAN
G601+G610	17	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	17	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

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CLARENCE LEONG
GENERAL MANAGER

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Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000105.1

Method		WGHT	G6	7KP
Analyte		Wgt	Au	W
Unit		kg	gm/mt	%
MDL		0.01	0.01	0.005
E687141	Core Reject	1.06	78.13	0.021
E687142	Core Reject	0.60	0.01	<0.005
E687143	Core Reject	1.78	0.08	<0.005
E687144	Core Reject	10.23	0.02	<0.005
E687145	Rock Pulp	0.28	1.50	0.021
E687146	Core Reject	0.12	15.25	0.008
E687147	Core Reject	0.74	18.33	0.196
E687148	Rock	7.05	<0.01	<0.005
E687149	Core Reject	4.10	0.06	<0.005
E687150	Core Reject	2.78	39.98	0.202
E687151	Core Reject	2.07	22.10	0.195
E687152	Rock	5.91	15.55	<0.005
E687153	Core Reject	2.89	36.17	0.126
E687154	Core Reject	1.20	32.68	0.200
E687155	Core Reject	1.54	30.06	0.158
E687156	Core Reject	2.08	0.52	0.124
E687157	Rock Pulp	0.26	0.48	<0.005

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

QUALITY CONTROL REPORT VAN10000105.1

		Method	WGHT	G6	7KP
		Analyte	Wgt	Au	W
		Unit	kg	gm/mt	%
		MDL	0.01	0.01	0.005
Pulp Duplicates					
E687142	Core Reject		0.60	0.01	<0.005
REP E687142	QC				<0.005
Reference Materials					
STD NBLG	Standard				<0.005
STD OXH55	Standard			1.27	
STD OXH55	Standard			1.15	
STD OXK69	Standard			3.47	
STD W107	Standard				0.448
STD W107 Expected					0.42
STD OXK69 Expected				3.583	
STD OXH55 Expected				1.282	
BLK	Blank				<0.005
BLK	Blank			<0.01	
BLK	Blank			<0.01	
BLK	Blank			<0.01	
Prep Wash					
G1	Prep Blank		<0.01	<0.01	<0.005
G1	Prep Blank		<0.01	<0.01	<0.005

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 08, 2010
Report Date: January 20, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000104.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: Batch 4
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
P200	33	Pulverize to 85% passing 200 mesh			VAN
CRU70	2	Crush to 70% passing 10 mesh			VAN
XWSH	33	Extra Wash with Glass between each sample			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 20, 2010

CERTIFICATE OF ANALYSIS VAN10000104.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
E687106	Core Reject	5.63	<0.01	<0.005
E687107	Core Reject	5.02	<0.01	<0.005
E687108	Core Reject	2.82	<0.01	<0.005
E687109	Core Reject	0.93	61.59	0.043
E687110	Rock	5.43	<0.01	<0.005
E687111	Core Reject	4.14	0.09	<0.005
E687112	Core Reject	4.93	0.01	<0.005
E687113	Core Reject	7.24	0.02	<0.005
E687114	Core Reject	4.89	2.29	0.006
E687115	Core Reject	4.83	<0.01	<0.005
E687116	Core Reject	3.31	<0.01	<0.005
E687117	Core Reject	4.81	<0.01	<0.005
E687118	Rock Pulp	0.18	0.04	0.417
E687119	Core Reject	4.61	<0.01	<0.005
E687120	Core Reject	3.49	0.01	<0.005
E687121	Core Reject	4.12	<0.01	<0.005
E687122	Core Reject	0.91	31.40	0.027
E687123	Core Reject	1.51	9.40	0.016
E687124	Rock	5.03	0.01	<0.005
E687125	Rock Pulp	0.28	0.50	0.006
E687126	Core Reject	6.91	0.03	<0.005
E687127	Core Reject	3.38	0.01	<0.005
E687128	Core Reject	4.06	0.01	<0.005
E687129	Core Reject	6.22	<0.01	<0.005
E687130	Core Reject	3.72	<0.01	<0.005
E687131	Core Reject	1.32	28.41	<0.005
E687132	Core Reject	1.93	<0.01	<0.005
E687133	Core Reject	3.29	18.48	0.030
E687134	Core Reject	3.58	0.01	<0.005
E687135	Core Reject	3.75	0.03	<0.005

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1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 20, 2010

CERTIFICATE OF ANALYSIS VAN10000104.1

Method		WGHT	G6	7KP
Analyte		Wgt	Au	W
Unit		kg	gm/mt	%
MDL		0.01	0.01	0.005
E687136	Core Reject	10.74	<0.01	<0.005
E687137	Core Reject	9.71	0.02	<0.005
E687138	Core Reject	4.14	0.01	<0.005
E687139	Core Reject	3.52	<0.01	<0.005
E687140	Core Reject	7.58	<0.01	<0.005

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Project: RAU
Report Date: January 20, 2010

QUALITY CONTROL REPORT VAN10000104.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
Pulp Duplicates				
E687108	Core Reject	2.82	<0.01	<0.005
REP E687108	QC		<0.01	
E687122	Core Reject	0.91	31.40	0.027
REP E687122	QC			0.027
E687140	Core Reject	7.58	<0.01	<0.005
REP E687140	QC		<0.01	
Reference Materials				
STD NBLG	Standard			<0.005
STD NBLG	Standard			<0.005
STD OXH55	Standard		1.27	
STD OXH55	Standard		1.19	
STD OXK69	Standard		3.47	
STD W107	Standard			0.439
STD W107	Standard			0.448
STD W107 Expected				0.42
STD OXK69 Expected			3.583	
STD OXH55 Expected			1.282	
BLK	Blank			<0.005
BLK	Blank			<0.005
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank		<0.01	
Prep Wash				
G1	Prep Blank	<0.01	0.01	<0.005
G1	Prep Blank	<0.01	<0.01	<0.005

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 08, 2010
Report Date: January 22, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000103.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: Batch 3
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
P200	33	Pulverize to 85% passing 200 mesh			VAN
CRU70	3	Crush to 70% passing 10 mesh			VAN
XWSH	33	Extra Wash with Glass between each sample			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000103.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
E687071	Core Reject	5.68	0.06	<0.005
E687072	Core Reject	2.48	<0.01	<0.005
E687073	Core Reject	3.17	0.02	<0.005
E687074	Core Reject	7.36	<0.01	<0.005
E687075	Core Reject	3.06	0.15	<0.005
E687076	Core Reject	7.80	0.08	<0.005
E687077	Core Reject	4.69	0.40	<0.005
E687078	Core Reject	4.90	0.03	<0.005
E687079	Core Reject	5.89	0.02	<0.005
E687080	Core Reject	3.17	0.03	<0.005
E687081	Rock	1.40	48.07	0.041
E687082	Rock	4.67	0.02	<0.005
E687083	Rock	4.32	0.01	<0.005
E687084	Rock Pulp	0.28	1.43	0.020
E687085	Core Reject	4.24	0.03	<0.005
E687086	Core Reject	7.17	0.02	<0.005
E687087	Core Reject	8.03	0.01	<0.005
E687088	Core Reject	7.05	<0.01	<0.005
E687089	Core Reject	4.08	0.05	<0.005
E687090	Core Reject	2.36	0.04	<0.005
E687091	Core Reject	3.38	33.41	0.094
E687092	Core Reject	3.62	<0.01	<0.005
E687093	Core Reject	6.21	0.04	<0.005
E687094	Core Reject	4.98	0.03	<0.005
E687095	Core Reject	11.27	0.06	<0.005
E687096	Core Reject	3.19	0.02	<0.005
E687097	Core Reject	4.37	0.03	<0.005
E687098	Core Reject	0.99	29.69	<0.005
E687099	Core Reject	5.02	0.03	<0.005
E687100	Rock Pulp	0.26	0.47	0.007

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Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000103.1

Method		WGHT	G6	7KP
Analyte		Wgt	Au	W
Unit		kg	gm/mt	%
MDL		0.01	0.01	0.005
E687101	Core Reject	2.40	0.01	<0.005
E687102	Core Reject	1.64	0.01	<0.005
E687103	Core Reject	9.80	0.06	<0.005
E687104	Core Reject	5.25	0.03	<0.005
E687105	Core Reject	4.34	0.09	<0.005

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

QUALITY CONTROL REPORT VAN10000103.1

		Method	WGHT	G6	7KP
		Analyte	Wgt	Au	W
		Unit	kg	gm/mt	%
		MDL	0.01	0.01	0.005
Pulp Duplicates					
E687079	Core Reject		5.89	0.02	<0.005
REP E687079	QC				<0.005
E687098	Core Reject		0.99	29.69	<0.005
REP E687098	QC			29.06	
Reference Materials					
STD NBLG	Standard				<0.005
STD NBLG	Standard				<0.005
STD OXH55	Standard			1.19	
STD OXH55	Standard			1.24	
STD OXK69	Standard			3.48	
STD W107	Standard				0.449
STD W107	Standard				0.439
STD W107 Expected					0.42
STD OXH55 Expected				1.282	
STD OXK69 Expected				3.583	
BLK	Blank				<0.005
BLK	Blank				<0.005
BLK	Blank			<0.01	
BLK	Blank			<0.01	
BLK	Blank			<0.01	
BLK	Blank			<0.01	
Prep Wash					
G1	Prep Blank		<0.01	<0.01	<0.005
G1	Prep Blank		<0.01	<0.01	<0.005

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 08, 2010
Report Date: January 22, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000102.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID:
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
CRU70	2	Crush to 70% passing 10 mesh			VAN
P200	33	Pulverize to 85% passing 200 mesh			VAN
XWSH	33	Extra Wash with Glass between each sample			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000102.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
E687036	Core Reject	10.48	0.27	<0.005
E687037	Core Reject	5.06	0.78	<0.005
E687038	Core Reject	4.99	0.07	<0.005
E687039	Core Reject	4.51	0.07	<0.005
E687040	Core Reject	3.10	0.32	0.005
E687041	Core Reject	1.16	0.08	0.006
E687042	Core Reject	2.04	0.12	<0.005
E687043	Core Reject	4.95	0.12	<0.005
E687044	Rock Pulp	0.18	0.04	0.423
E687045	Core Reject	0.12	0.15	0.006
E687046	Core Reject	1.81	0.15	<0.005
E687047	Core Reject	9.48	1.11	<0.005
E687048	Core Reject	3.87	2.32	0.008
E687049	Core Reject	0.58	0.10	0.006
E687050	Core Reject	2.70	10.85	<0.005
E687051	Rock	5.95	0.02	<0.005
E687052	Core Reject	3.35	1.26	<0.005
E687053	Core Reject	2.11	3.44	<0.005
E687054	Core Reject	3.76	7.73	<0.005
E687055	Core Reject	3.41	2.47	0.008
E687056	Rock	4.46	<0.01	<0.005
E687057	Core Reject	3.66	1.84	<0.005
E687058	Core Reject	11.85	0.16	<0.005
E687059	Core Reject	0.54	0.17	<0.005
E687060	Core Reject	12.91	1.13	<0.005
E687061	Core Reject	5.18	0.15	<0.005
E687062	Core Reject	0.06	1.01	<0.005
E687063	Rock Pulp	0.26	0.48	0.007
E687064	Core Reject	6.68	0.09	0.015
E687065	Core Reject	10.55	0.60	0.007

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1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000102.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
E687066	Core Reject	5.11	0.23	<0.005
E687067	Core Reject	8.00	2.36	<0.005
E687068	Core Reject	5.67	0.27	0.012
E687069	Core Reject	3.46	6.34	0.012
E687070	Core Reject	10.95	0.27	<0.005

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

QUALITY CONTROL REPORT VAN10000102.1

		Method	WGHT	G6	7KP
		Analyte	Wgt	Au	W
		Unit	kg	gm/mt	%
		MDL	0.01	0.01	0.005
Pulp Duplicates					
E687037	Core Reject		5.06	0.78	<0.005
REP E687037	QC				<0.005
E687052	Core Reject		3.35	1.26	<0.005
REP E687052	QC			1.32	
Reference Materials					
STD NBLG	Standard				<0.005
STD NBLG	Standard				<0.005
STD OXH55	Standard			1.22	
STD OXH55	Standard			1.24	
STD OXH55	Standard			1.15	
STD OXK69	Standard			3.42	
STD OXK69	Standard			3.48	
STD W107	Standard				0.449
STD W107	Standard				0.452
STD W107 Expected					0.42
STD OXK69 Expected				3.583	
STD OXH55 Expected				1.282	
BLK	Blank				<0.005
BLK	Blank			<0.01	
BLK	Blank			<0.01	
BLK	Blank				<0.005
BLK	Blank			<0.01	
BLK	Blank			<0.01	
BLK	Blank			<0.01	
Prep Wash					
G1	Prep Blank		<0.01	<0.01	<0.005
G1	Prep Blank		<0.01	<0.01	<0.005

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Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Submitted By: Bill Wengzynowski
Receiving Lab: Canada-Vancouver
Received: January 08, 2010
Report Date: January 22, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10000068.1

CLIENT JOB INFORMATION

Project: RAU
Shipment ID: Batch 1
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
CRU70	2	Crush to 70% passing 10 mesh			VAN
P200	33	Pulverize to 85% passing 200 mesh			VAN
XWSH	33	Extra Wash with Glass between each sample			VAN
G601+G610	35	Fire Assay fusion Au by ICP-ES	50	Completed	VAN
7KP1	35	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Archer, Cathro & Assoc. (1981) Ltd.
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000068.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
E687001	Core Reject	3.19	0.22	0.014
E687002	Core Reject	1.01	11.15	0.131
E687003	Core Reject	1.55	0.93	0.014
E687004	Core Reject	3.30	5.75	0.165
E687005	Core Reject	11.27	0.12	0.049
E687006	Rock	6.50	<0.01	<0.005
E687007	Core Reject	6.07	0.02	0.064
E687008	Core Reject	2.78	0.05	<0.005
E687009	Core Reject	1.22	3.19	0.016
E687010	Rock Pulp	0.18	0.04	0.435
E687011	Core Reject	5.72	0.02	0.020
E687012	Core Reject	8.03	5.24	0.022
E687013	Core Reject	12.47	3.82	0.013
E687014	Core Reject	1.89	0.09	0.017
E687015	Rock Pulp	0.26	5.53	0.005
E687016	Core Reject	0.81	0.94	0.036
E687017	Core Reject	1.77	0.48	0.008
E687018	Core Reject	1.45	1.02	0.041
E687019	Core Reject	1.72	0.50	0.077
E687020	Core Reject	7.19	<0.01	0.068
E687021	Core Reject	2.50	0.19	0.022
E687022	Core Reject	1.76	2.77	0.024
E687023	Core Reject	2.18	5.06	0.011
E687024	Core Reject	1.33	6.77	0.015
E687025	Core Reject	2.92	12.04	0.109
E687026	Core Reject	0.85	2.30	0.055
E687027	Core Reject	13.84	5.89	0.015
E687028	Core Reject	1.73	1.53	0.013
E687029	Core Reject	6.40	2.94	0.006
E687030	Core Reject	11.64	0.72	0.010

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1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

CERTIFICATE OF ANALYSIS VAN10000068.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
E687031	Core Reject	3.68	<0.01	0.054
E687032	Core Reject	5.81	0.16	0.062
E687033	Core Reject	2.02	11.32	0.017
E687034	Rock	5.53	<0.01	<0.005
E687035	Core Reject	10.83	0.16	0.101

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

QUALITY CONTROL REPORT VAN10000068.1

	Method	WGHT	G6	7KP
	Analyte	Wgt	Au	W
	Unit	kg	gm/mt	%
	MDL	0.01	0.01	0.005
Pulp Duplicates				
E687022	Core Reject	1.76	2.77	0.024
REP E687022	QC		2.74	
E687032	Core Reject	5.81	0.16	0.062
REP E687032	QC			0.061
E687033	Core Reject	2.02	11.32	0.017
REP E687033	QC		11.99	
Reference Materials				
STD NBLG	Standard			<0.005
STD NBLG	Standard			<0.005
STD OXH55	Standard		1.29	
STD OXH55	Standard		1.22	
STD OXH55	Standard		1.38	
STD OXK69	Standard		3.60	
STD OXK69	Standard		3.42	
STD W107	Standard			0.466
STD W107	Standard			0.452
STD OXK69 Expected			3.583	
STD W107 Expected				0.42
STD OXH55 Expected			1.282	
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank		<0.01	
BLK	Blank			<0.005
BLK	Blank			<0.005
BLK	Blank		<0.01	
Prep Wash				
G1	Prep Blank	<0.01	<0.01	<0.005

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Client: **Archer, Cathro & Assoc. (1981) Ltd.**
1016 - 510 W. Hastings St.
Vancouver BC V6B 1L8 Canada

Project: RAU
Report Date: January 22, 2010

QUALITY CONTROL REPORT VAN10000068.1

		WGHT	G6	7KP
		Wgt	Au	W
		kg	gm/mt	%
		0.01	0.01	0.005
G1	Prep Blank	<0.01	<0.01	<0.005

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ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Finalized Date: 29-OCT-2009
Account: RCM

CERTIFICATE VA09118050

Project: VA09105685Re-Run

P.O. No.: BATCH 68

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 21-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex
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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: VA09105685Re-Run

Finalized Date: 29-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09118050

Sample Description	Method Analyte Units LOR	Au-AA26 Au ppm 0.01
G284311		0.21
G284312		2.59
G284313		91.2
G284314		19.20
G284315		1.32
G284316		9.43
G284317		0.05
G284318		0.10
G284319		1.01
G284320		8.31
G284321		8.07
G284322		6.47
G284323		6.66
G284324		3.15
G284325		2.68
G284326		14.15
G284327		3.10
G284328		4.25
G284329		2.89
G284330		5.57
G284331		1.35
G284332		0.01
G284333		0.53
G284334		5.02
G284335		2.06
G284336		1.33
G284337		0.03
G284338		0.04
G284339		0.02
G284340		5.26
G284341		<0.01
G284342		<0.01
G284343		<0.01
G284344		2.05
G284345		0.50
G284346		1.69

Comments: **RE-ANALYSIS DATA FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE VA09105685**

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

Finalized Date: 27-OCT-2009
This copy reported on 29-OCT-2009
Account: RCM

CERTIFICATE VA09117979

Project: VA09111373Re-Run

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 21-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

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

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

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

Finalized Date: 27-OCT-2009
Account: RCM

Project: VA09111373Re-Run

CERTIFICATE OF ANALYSIS VA09117979

Sample Description	Method / Analyte / Units / LOR	Au-AA26 Au ppm 0.01
G285099		0.05
G285100		0.01
G285101		<0.01
G285102		0.01
G285103		0.17
G285104		0.23
G285105		0.44
G285106		0.92
G285107		0.03
G285108		1.55
G285109		0.06
G285110		0.11
G285111		0.20
G285112		0.22
G285113		0.75
G285114		<0.01
G285115		0.37
G285116		0.31
G285117		0.31
G285118		0.32
G285119		0.32
G285120		0.21
G285121		0.03
G285122		0.03
G285123		0.01
G285124		0.01
G285125		0.03
G285126		<0.01
G285127		0.01
G285128		<0.01
G285129		0.02
G285130		0.02
G285131		0.07
G285132		0.04
G285133		5.18
G285134		0.02

Comments: **RE-ANALYSIS DATA FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE VA09111373**

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

Finalized Date: 23-OCT-2009
Account: RCM

CERTIFICATE VA09113008

Project: RAU

P.O. No.: Batch 75

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 8-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: ATAC RESOURCES LTD.
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 23-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09113008

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G285063		11.96	0.07	0.10	0.85	55	90	0.37	62.6	16.20	0.14	12.30	1.3	11	1.13	5.0
G285064		9.82	0.02	0.02	1.24	40	160	0.56	22.6	15.20	0.04	13.80	0.9	15	1.65	5.6
G285065		8.66	0.06	0.05	0.88	123	110	0.40	28.9	14.70	0.11	16.50	3.2	10	1.86	6.0
G285066		8.78	0.04	0.15	1.62	869	80	0.83	7.84	9.64	3.13	24.0	17.4	21	7.77	30.5
G285067		3.66	<0.01	<0.01	0.08	<5	20	0.06	0.09	19.10	0.06	1.49	1.0	1	0.16	1.5
G285068		11.82	0.01	0.06	0.44	23	20	0.23	10.25	16.90	0.08	13.20	3.7	7	3.77	23.1
G285069		9.68	<0.01	0.05	0.69	13	70	0.32	5.18	17.30	0.04	13.00	2.0	9	5.31	29.0
G285070		12.68	0.65	0.03	1.84	46	180	0.94	39.5	14.35	0.03	39.0	3.8	31	20.3	53.5
G285071		12.48	0.05	0.14	1.03	43	70	0.51	69.5	16.50	0.18	23.7	1.6	12	10.10	74.7
G285072		11.68	0.07	0.50	1.85	70	390	1.00	30.6	12.90	0.15	23.8	2.3	24	7.69	215
G285073		5.10	0.11	0.22	3.05	95	790	1.22	36.8	13.20	0.33	46.3	19.0	40	22.5	226
G285074		11.30	<0.01	0.20	3.80	53.0	630	1.21	3.30	9.74	0.39	56.0	33.3	53	7.22	24.4
G285075		0.28	1.56	1.67	0.10	>10000	30	0.08	352	12.15	0.79	61.8	1.6	7	0.66	17.1
G285076		10.52	<0.01	0.12	9.13	3.1	1970	2.56	0.14	9.06	0.14	132.5	35.9	59	17.20	11.4
G285077		3.42	<0.01	0.40	4.02	13	710	0.81	0.11	18.30	0.25	69.1	43.6	23	10.20	103.0
G285078		0.98	0.08	2.91	0.88	534	280	0.28	28.1	18.05	0.46	15.35	3.1	14	0.77	9.5
G285079		3.50	0.63	5.75	0.82	2170	460	0.29	161.5	19.30	0.56	23.5	2.9	12	0.80	14.2
G285080		3.30	7.57	1.04	0.35	>10000	930	<0.05	1100	0.98	0.08	86.7	1.3	3	0.09	8.8
G285081		5.02	4.50	0.62	0.41	>10000	1620	<0.05	2000	0.59	0.72	76.1	2.9	<1	0.13	15.2
G285082		4.02	<0.01	<0.01	0.09	22	20	0.05	0.78	18.95	0.05	1.60	1.0	1	0.17	3.7
G285083		1.74	2.32	0.65	0.16	>10000	3380	0.07	1850	1.10	0.69	28.7	1.8	<1	0.12	9.1
G285084		2.52	5.97	0.34	0.24	>10000	1700	0.09	376	0.93	0.69	16.40	1.7	<1	0.30	2.9
G285085		1.66	7.61	0.26	0.14	>10000	1570	<0.05	430	1.08	0.25	19.85	1.3	<1	<0.05	3.3
G285086		1.24	6.81	4.77	0.30	>10000	550	<0.05	1960	0.56	1.72	14.35	1.6	<1	0.52	10.7
G285087		6.00	1.61	0.32	0.24	>10000	300	<0.05	1115	0.52	1.26	196.0	2.4	<1	0.11	4.6
G285088		1.02	0.70	0.61	0.22	>10000	350	0.11	409	0.46	0.73	61.3	1.8	<1	0.06	3.7
G285089		0.28	0.56	0.73	0.79	6030	60	0.30	96.9	11.60	0.11	32.3	5.2	15	1.83	31.2
G285090		3.10	1.51	0.84	0.07	2710	150	<0.05	181.5	10.60	0.26	77.4	1.1	<1	0.07	2.5
G285091		1.96	0.25	0.19	0.20	1120	70	0.09	145.0	13.30	0.07	46.0	1.4	1	0.17	2.1
G285092		10.24	0.50	0.07	0.14	1400	10	0.11	162.5	13.00	0.12	58.5	1.4	1	0.21	1.6
G285093		12.16	0.57	0.07	0.03	2520	20	<0.05	140.5	14.60	0.07	64.6	0.6	<1	0.17	1.7
G285094		6.66	0.42	0.04	0.03	3140	10	0.05	125.0	15.20	0.06	56.7	0.6	<1	0.15	1.8
G285095		8.14	0.15	0.04	0.06	1540	10	0.05	38.5	14.75	0.13	30.8	0.9	1	0.16	1.3
G285096		11.94	0.34	0.26	7.45	757	590	1.81	47.4	5.38	0.06	75.4	26.1	53	14.60	7.5
G285097		2.26	0.33	<0.01	7.06	699	340	1.82	45.6	5.22	0.03	80.1	24.1	52	15.15	2.6
G285098		4.94	0.26	0.07	0.27	875	10	0.13	70.9	15.15	0.05	7.72	3.4	3	0.80	2.2

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 23-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09113008

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G285063		3.31	5.58	0.08	0.7	<0.1	0.050	0.33	4.9	3.9	9.53	5150	0.59	0.04	4.5	4.1
G285064		3.37	7.82	0.08	0.8	<0.1	0.040	0.61	6.1	7.3	8.90	5020	0.37	0.02	5.4	3.3
G285065		6.96	5.48	0.13	0.5	<0.1	0.039	0.42	8.4	6.8	8.54	5000	0.27	0.02	4.0	9.5
G285066		18.20	8.22	0.21	0.9	<0.1	0.032	0.54	16.2	10.1	5.26	5850	0.80	<0.01	6.7	40.9
G285067		0.44	0.35	<0.05	<0.1	<0.1	0.008	0.03	0.7	1.2	12.35	203	0.10	<0.01	0.4	1.9
G285068		4.57	2.22	0.08	0.3	<0.1	0.039	0.30	7.3	4.7	9.69	3440	0.23	<0.01	2.4	8.1
G285069		4.78	4.02	0.07	0.5	<0.1	0.041	0.49	6.9	5.3	9.48	4250	0.36	<0.01	4.0	6.0
G285070		5.68	9.73	0.12	1.0	<0.1	0.041	1.23	24.1	16.4	7.78	5470	0.57	0.04	9.7	11.4
G285071		5.04	5.87	0.10	0.6	<0.1	0.056	0.67	12.2	10.4	8.31	7200	0.28	0.03	5.6	4.4
G285072		5.08	8.44	0.10	0.9	<0.1	0.099	0.94	14.1	14.2	6.01	6590	0.25	0.03	9.7	4.9
G285073		8.95	11.05	0.17	0.9	<0.1	0.056	1.39	32.0	31.7	4.59	4020	0.40	0.06	18.9	31.3
G285074		19.75	18.25	0.29	2.1	<0.1	0.058	1.18	33.1	16.2	2.35	931	0.62	0.13	32.0	77.9
G285075		16.60	1.06	0.23	<0.1	<0.1	0.107	0.07	40.4	1.9	6.92	2200	5.55	0.01	0.7	6.9
G285076		6.84	25.8	0.17	0.6	<0.1	0.094	4.29	62.6	30.6	1.93	618	0.24	0.24	78.8	102.5
G285077		5.83	10.40	0.12	0.6	<0.1	0.070	1.82	39.3	20.7	1.37	971	0.16	0.11	33.0	73.2
G285078		2.58	2.44	0.06	0.6	<0.1	0.029	0.37	8.3	4.1	7.08	460	0.88	0.06	3.2	8.8
G285079		6.31	2.82	0.10	0.3	<0.1	0.071	0.23	14.4	4.4	2.94	819	1.45	0.11	2.6	8.5
G285080		37.9	3.68	0.48	0.2	<0.1	0.088	0.03	56.6	2.2	3.33	1420	4.34	0.03	0.8	7.3
G285081		43.8	2.68	0.59	0.2	<0.1	0.139	0.02	45.7	2.0	1.31	5110	2.50	0.04	0.6	12.6
G285082		0.43	0.29	<0.05	<0.1	<0.1	<0.005	0.04	0.8	1.1	12.35	188	0.16	<0.01	0.5	1.7
G285083		43.8	2.13	0.54	<0.1	<0.1	0.250	0.02	12.9	1.6	0.68	20900	2.54	0.06	0.3	15.7
G285084		45.0	2.09	0.47	0.1	<0.1	0.125	0.05	7.3	1.0	1.30	6510	1.47	0.04	0.6	8.9
G285085		45.4	2.03	0.52	<0.1	<0.1	0.136	0.05	9.3	1.8	1.13	2670	0.76	0.03	0.4	5.8
G285086		>50	2.98	0.64	0.1	<0.1	0.120	0.05	5.9	1.8	0.20	3250	0.92	0.02	0.6	11.8
G285087		44.2	3.12	0.65	0.4	<0.1	0.115	0.03	123.0	2.4	1.68	2280	0.90	0.02	0.5	11.7
G285088		41.4	2.17	0.59	0.2	<0.1	0.180	0.02	35.3	1.2	3.24	2550	0.90	0.02	0.5	7.3
G285089		13.95	3.49	0.16	0.1	<0.1	0.073	0.38	19.0	4.2	6.46	1960	15.10	0.02	3.4	20.1
G285090		19.45	0.97	0.27	<0.1	<0.1	0.073	0.01	48.2	1.4	7.00	2980	0.28	0.01	0.4	3.3
G285091		13.05	1.65	0.19	0.1	<0.1	0.046	0.02	28.3	1.8	8.37	2620	0.13	0.02	1.0	5.2
G285092		12.15	1.39	0.17	<0.1	<0.1	0.045	0.01	36.5	1.7	8.55	2440	0.10	0.01	0.7	3.9
G285093		10.70	0.57	0.17	<0.1	<0.1	0.053	0.01	40.2	1.8	8.70	2620	0.07	0.01	0.2	1.0
G285094		11.70	0.53	0.18	<0.1	<0.1	0.053	0.01	35.7	1.9	9.02	2620	<0.05	0.01	0.2	0.6
G285095		8.74	0.66	0.14	<0.1	<0.1	0.044	0.01	18.4	2.0	9.21	2380	0.11	0.01	0.2	1.4
G285096		9.70	34.5	0.23	4.4	<0.1	0.059	4.27	43.0	27.5	3.87	600	0.50	0.09	35.6	62.8
G285097		9.04	32.0	0.19	2.9	<0.1	0.053	4.09	40.3	31.7	3.66	554	0.45	0.09	43.6	60.3
G285098		9.15	1.65	0.12	0.1	<0.1	0.057	0.09	3.3	3.0	9.12	2560	0.31	0.01	1.5	6.2

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 23-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09113008

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G285063		620	11.6	20.4	0.003	0.79	2.00	3.7	3	2.5	129.0	0.27	0.15	0.3	0.101	0.16
G285064		650	3.0	30.4	0.004	0.79	0.79	3.4	2	3.2	105.0	0.33	0.06	0.4	0.124	0.20
G285065		900	2.7	20.7	0.003	4.73	0.87	2.6	2	1.9	99.9	0.25	0.10	0.5	0.097	0.25
G285066		940	5.3	73.2	0.009	7.12	5.83	3.3	2	4.3	48.5	0.37	0.35	1.6	0.159	0.81
G285067		210	1.4	1.4	<0.002	0.02	0.06	0.3	3	<0.2	48.7	<0.05	<0.05	<0.2	<0.005	<0.02
G285068		280	2.3	52.4	0.002	2.04	0.24	2.5	3	0.8	84.3	0.15	0.12	0.5	0.054	0.34
G285069		850	3.1	52.9	<0.002	1.05	0.16	2.9	2	1.3	98.4	0.23	<0.05	0.5	0.104	0.39
G285070		1320	2.9	133.0	0.002	1.20	0.21	3.8	2	3.7	97.6	0.57	0.23	2.1	0.236	1.37
G285071		680	15.2	101.5	0.005	0.53	0.77	3.1	2	2.1	111.0	0.35	0.14	0.7	0.136	0.81
G285072		830	10.3	68.2	0.002	0.24	3.00	3.8	2	4.7	91.8	0.60	<0.05	1.4	0.237	0.53
G285073		1090	16.4	76.5	0.002	0.82	0.49	6.7	2	3.6	100.5	1.20	0.15	3.3	0.422	0.95
G285074		3730	19.5	34.7	<0.002	0.11	0.96	7.7	2	1.8	105.0	1.74	0.17	3.3	0.853	0.27
G285075		120	14.4	7.4	0.005	>10.0	21.8	0.3	5	1.1	90.2	<0.05	0.90	0.5	0.015	0.09
G285076		1900	7.1	123.5	<0.002	0.01	0.27	18.2	2	3.0	135.5	4.50	<0.05	5.4	2.48	0.55
G285077		2900	5.5	49.5	<0.002	0.06	0.12	8.0	2	1.4	166.5	1.91	<0.05	2.8	1.025	0.29
G285078		160	29.0	16.0	<0.002	0.03	1.57	1.9	2	0.9	85.1	0.20	0.08	1.9	0.094	0.13
G285079		220	112.0	11.7	0.002	0.03	4.95	2.0	3	1.2	116.0	0.16	0.23	1.5	0.062	0.16
G285080		260	21.4	1.4	<0.002	0.08	28.6	2.0	11	1.0	10.3	0.06	1.43	0.4	0.017	0.25
G285081		310	16.2	1.6	0.006	0.07	31.2	1.9	10	0.6	8.5	0.05	1.06	0.3	0.012	0.30
G285082		390	1.3	1.4	<0.002	0.01	0.12	0.3	2	<0.2	53.7	<0.05	<0.05	<0.2	0.007	<0.02
G285083		190	21.1	1.3	0.003	0.06	36.5	4.5	7	0.7	14.3	<0.05	1.42	0.2	<0.005	0.43
G285084		200	10.5	4.7	0.003	0.09	13.55	0.9	8	0.5	20.1	<0.05	0.54	0.2	0.012	0.31
G285085		240	5.4	3.6	0.041	0.16	16.20	0.9	8	0.5	39.9	<0.05	0.62	0.3	0.006	0.64
G285086		290	632	5.6	<0.002	0.10	28.4	1.3	12	0.7	12.3	0.07	0.74	<0.2	0.013	0.29
G285087		370	36.2	2.4	0.002	0.07	10.25	1.5	12	0.6	7.9	0.05	0.70	0.4	0.012	0.14
G285088		360	10.0	1.2	0.004	0.17	6.55	1.3	12	0.6	8.7	<0.05	0.31	<0.2	0.010	0.18
G285089		230	12.0	30.0	0.013	>10.0	4.09	1.6	5	2.9	82.8	0.20	0.19	0.7	0.101	0.24
G285090		150	4.3	0.7	<0.002	2.29	3.02	0.5	11	0.3	87.7	<0.05	0.11	<0.2	0.006	0.05
G285091		220	3.2	1.1	<0.002	>10.0	2.10	0.5	7	0.5	109.0	0.06	0.11	0.3	0.020	0.05
G285092		200	2.4	1.6	0.003	9.13	2.68	0.5	5	0.3	99.8	<0.05	0.11	<0.2	0.013	0.09
G285093		100	3.2	1.2	0.002	>10.0	2.76	0.2	4	0.2	111.5	<0.05	0.11	0.2	<0.005	0.05
G285094		110	2.8	1.1	0.002	>10.0	3.02	0.2	4	<0.2	110.0	<0.05	0.10	<0.2	<0.005	0.05
G285095		90	2.2	0.5	<0.002	7.95	1.04	0.4	3	0.2	101.0	<0.05	0.06	<0.2	<0.005	0.05
G285096		2630	1.9	339	<0.002	9.62	1.59	15.4	4	10.8	44.3	1.98	0.11	4.4	1.045	1.54
G285097		2560	1.5	329	<0.002	8.93	1.57	13.4	3	11.3	40.4	2.71	0.08	3.9	1.390	1.48
G285098		180	1.5	13.8	<0.002	9.52	1.37	0.7	5	0.3	114.5	0.09	0.11	0.2	0.029	0.11

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Project: RAU

Finalized Date: 23-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09113008

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
G285063		1.8	29	179.0	16.9	38	29.6	
G285064		1.1	43	183.5	14.7	10	35.8	
G285065		1.0	42	12.3	14.5	64	21.4	
G285066		7.2	93	8.2	17.4	1400	34.8	
G285067		0.4	3	0.2	1.0	18	0.6	
G285068		0.6	23	2.6	15.9	30	13.4	
G285069		0.6	37	4.5	16.1	18	17.5	
G285070		1.3	143	58.6	15.1	22	42.6	
G285071		0.9	58	400	19.3	41	23.3	
G285072		1.1	64	52.0	16.2	36	37.2	
G285073		0.8	107	26.6	23.4	59	36.7	
G285074		1.5	173	2.4	23.0	134	81.8	
G285075		0.8	6	193.0	7.2	139	2.9	2.56
G285076		0.5	243	2.5	20.2	147	24.2	
G285077		0.3	102	0.5	21.2	108	28.9	
G285078		0.8	18	15.7	5.4	81	21.6	
G285079		1.1	19	179.0	7.3	131	14.4	
G285080		3.1	19	330	10.4	53	12.1	2.00
G285081		3.6	13	690	20.4	222	9.9	2.30
G285082		0.5	3	0.4	1.1	15	0.5	
G285083		1.7	28	431	30.4	127	3.6	3.61
G285084		2.1	10	313	15.6	123	9.1	3.48
G285085		2.9	6	4970	12.0	128	5.1	4.32
G285086		3.6	10	275	12.7	1920	12.1	2.53
G285087		3.8	11	326	18.3	427	21.4	1.56
G285088		1.6	16	470	22.4	210	10.6	1.23
G285089		0.4	16	55.5	6.7	30	6.8	
G285090		0.9	5	119.0	10.8	59	3.3	
G285091		0.5	6	139.5	6.5	24	7.7	
G285092		0.7	6	374	7.3	63	5.0	
G285093		6.0	2	253	6.0	18	2.6	
G285094		0.6	2	250	5.9	16	1.1	
G285095		0.4	4	146.5	7.6	42	4.4	
G285096		3.7	133	18.4	12.8	46	165.5	
G285097		3.3	139	19.8	11.3	35	110.5	
G285098		0.3	7	15.1	6.6	21	8.3	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-OCT-2009
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CERTIFICATE OF ANALYSIS VA09113008

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-OCT-2009
Account: RCM

CERTIFICATE VA09111417

Project: RAU

P.O. No.:

This report is for 26 Soil samples submitted to our lab in Vancouver, BC, Canada on 9-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Account: RCM

CERTIFICATE OF ANALYSIS VA09111417

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC64411		0.36	0.435	1.0	1.39	2620	<10	320	0.5	49	5.36	1.3	11	27	30	8.14
CC64412		0.30	0.176	1.2	1.20	950	<10	210	<0.5	35	9.34	0.8	9	27	18	4.61
CC64413		0.36	0.001	<0.2	0.60	26	<10	70	<0.5	<2	24.8	<0.5	3	17	5	1.28
CC64414		0.30	0.002	0.2	3.20	33	<10	450	0.6	<2	8.55	<0.5	27	117	34	5.54
CC64415		0.26	0.002	<0.2	3.45	15	<10	390	0.6	<2	1.55	<0.5	29	159	21	4.93
CC64416		0.40	0.001	0.2	1.82	11	<10	240	0.9	<2	2.56	<0.5	27	55	51	4.40
CC64417		0.36	0.004	<0.2	1.54	11	<10	190	0.6	<2	4.96	<0.5	14	42	21	4.08
CC64418		0.40	0.009	0.2	1.41	19	<10	240	0.6	<2	6.08	<0.5	14	39	22	4.36
CC64419		0.30	0.003	<0.2	2.32	14	<10	190	0.6	<2	13.50	<0.5	13	39	16	3.61
CC64420		0.34	0.003	<0.2	1.56	22	<10	230	0.6	3	11.85	<0.5	12	27	24	3.55
CC64421		0.42	0.007	0.4	1.46	28	<10	490	0.6	<2	6.80	<0.5	21	29	74	4.74
CC64422		0.32	0.018	0.8	0.92	86	<10	160	0.5	5	10.65	1.0	7	18	30	1.82
CC64423		0.32	0.019	0.9	0.45	90	<10	1090	<0.5	42	12.60	2.1	6	9	11	2.16
CC64424		0.30	0.015	1.0	0.81	57	<10	410	<0.5	12	9.01	2.7	12	13	27	3.45
CC64425		0.40	0.008	1.3	1.06	103	<10	940	0.5	73	7.96	2.8	10	17	23	2.86
CC64426		0.40	0.018	1.3	0.93	119	<10	890	<0.5	20	10.05	1.5	7	16	18	2.77
CC64427		0.32	0.022	0.8	0.59	99	<10	350	<0.5	10	11.30	1.6	6	11	16	2.39
CC64428		0.32	0.018	0.9	1.03	83	<10	380	<0.5	20	8.14	1.2	7	18	20	2.55
CC64429		0.40	0.010	0.4	1.07	75	<10	510	<0.5	26	5.76	1.1	8	19	28	2.61
CC64430		0.40	0.016	0.4	1.28	70	<10	210	0.5	6	4.62	0.9	8	23	23	2.69
CC64431		0.40	0.010	0.2	1.24	31	<10	160	<0.5	5	4.69	0.7	9	22	32	2.48
CC64432		0.32	0.013	0.4	0.80	24	<10	120	<0.5	4	9.04	2.1	6	14	17	1.93
CC64433		0.34	0.002	1.1	0.44	41	<10	430	<0.5	26	12.55	<0.5	3	9	9	1.72
CC64434		0.34	0.006	0.3	1.62	20	<10	490	0.6	<2	3.82	0.6	11	27	37	2.85
CC64435		0.46	0.033	0.7	0.91	22	<10	3260	<0.5	4	7.71	3.5	6	17	20	1.89
CC64436		0.42	0.006	0.5	1.82	26	<10	3490	0.7	2	4.98	7.8	12	28	47	3.00

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

Project: RAU

Finalized Date: 19-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09111417

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
CC64411		<10	<1	0.10	10	1.13	1890	<1	0.02	37	870	56	0.02	4	4	74
CC64412		<10	<1	0.13	10	3.27	1520	<1	0.03	29	810	53	0.01	2	3	107
CC64413		<10	<1	0.06	<10	0.51	262	<1	0.02	12	400	4	<0.01	<2	2	212
CC64414		10	<1	1.21	20	2.84	900	<1	0.03	122	3060	8	0.04	3	10	130
CC64415		10	<1	0.13	10	3.26	1055	<1	0.02	140	1120	13	0.04	<2	10	43
CC64416		10	<1	0.36	20	1.39	818	<1	0.02	61	1940	12	0.04	2	4	60
CC64417		10	<1	0.20	20	1.47	612	<1	0.02	37	1370	13	0.03	<2	3	90
CC64418		<10	<1	0.26	20	1.46	648	<1	0.02	41	1180	16	0.03	<2	3	114
CC64419		10	<1	0.26	10	1.67	522	<1	0.05	35	1050	7	0.02	<2	4	431
CC64420		<10	<1	0.33	20	1.22	464	<1	0.03	28	1120	13	0.02	<2	3	157
CC64421		<10	<1	0.30	20	1.09	464	2	0.02	65	5320	22	0.02	4	3	96
CC64422		<10	<1	0.17	10	6.84	446	12	0.03	64	1730	66	0.01	7	2	73
CC64423		<10	<1	0.05	10	8.41	1335	1	0.03	20	840	72	0.04	2	1	82
CC64424		<10	<1	0.13	10	5.48	1085	2	0.02	33	1400	139	0.04	3	2	71
CC64425		<10	<1	0.07	10	5.28	853	1	0.02	32	1070	107	0.04	2	2	58
CC64426		<10	<1	0.10	10	6.65	1015	3	0.03	30	930	78	0.03	2	2	73
CC64427		<10	<1	0.05	10	7.94	1190	5	0.02	24	690	86	0.01	2	1	74
CC64428		<10	<1	0.12	10	5.63	446	2	0.03	25	840	46	0.01	<2	3	62
CC64429		<10	<1	0.09	10	3.93	521	1	0.03	26	910	40	0.02	2	3	55
CC64430		<10	<1	0.10	10	3.25	599	1	0.03	26	860	42	0.01	<2	3	47
CC64431		<10	<1	0.10	10	2.48	527	<1	0.03	27	930	28	<0.01	2	4	63
CC64432		<10	<1	0.13	10	5.55	668	1	0.03	18	590	34	0.02	<2	2	83
CC64433		<10	<1	0.04	10	8.90	637	<1	0.02	8	390	23	0.04	2	1	68
CC64434		<10	<1	0.23	20	2.62	588	1	0.04	31	930	24	0.01	2	4	51
CC64435		<10	<1	0.09	10	5.37	446	<1	0.02	19	760	71	0.10	2	2	97
CC64436		10	<1	0.31	10	3.52	941	<1	0.04	43	920	37	0.09	3	5	93

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

Finalized Date: 19-OCT-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09111417

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC64411		<20	0.04	<10	<10	39	60	451
CC64412		<20	0.04	<10	<10	35	70	291
CC64413		<20	0.04	<10	<10	17	<10	45
CC64414		<20	0.30	<10	<10	50	<10	151
CC64415		<20	0.14	<10	<10	55	<10	113
CC64416		<20	0.14	<10	<10	38	<10	122
CC64417		<20	0.08	<10	<10	35	<10	114
CC64418		<20	0.06	<10	<10	31	<10	182
CC64419		<20	0.07	<10	<10	42	<10	85
CC64420		<20	0.06	<10	<10	38	<10	122
CC64421		<20	0.05	<10	<10	61	<10	260
CC64422		<20	0.03	<10	10	104	<10	522
CC64423		<20	0.01	<10	<10	24	30	762
CC64424		<20	0.01	<10	<10	40	10	1040
CC64425		<20	0.02	<10	<10	38	20	923
CC64426		<20	0.02	<10	<10	39	30	734
CC64427		<20	0.02	<10	<10	30	30	765
CC64428		<20	0.04	<10	<10	39	20	380
CC64429		<20	0.05	<10	<10	38	10	345
CC64430		<20	0.05	<10	<10	47	10	315
CC64431		<20	0.07	<10	<10	41	<10	192
CC64432		<20	0.03	<10	<10	27	<10	613
CC64433		<20	0.01	<10	<10	32	<10	183
CC64434		<20	0.06	<10	<10	53	<10	223
CC64435		<20	0.03	<10	<10	39	<10	1300
CC64436		<20	0.05	<10	<10	60	<10	1300

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Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE VA09111373

Project: RAU

P.O. No.: Batch 76

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 9-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 20-OCT-2009
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CERTIFICATE OF ANALYSIS VA09111373

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
G285099		8.60	0.03	0.49	6.22	154	1150	1.73	19.00	14.20	1.23	76.6	10.7	41	11.50	10.1
G285100		10.54	<0.01	0.13	4.42	106	980	1.12	0.48	20.6	0.17	62.5	18.1	26	7.38	27.9
G285101		6.22	<0.01	0.31	5.79	6	1240	1.71	0.12	14.80	0.09	72.7	28.0	38	12.45	22.5
G285102		5.02	0.01	0.32	5.35	17	1240	1.36	0.12	15.60	0.11	68.6	16.8	34	9.66	132.0
G285103		5.72	0.16	0.34	6.74	52.9	1230	1.57	29.8	9.70	0.03	99.6	29.7	54	16.30	30.1
G285104		11.68	0.30	0.06	0.15	6960	10	0.05	80.0	16.55	0.06	16.55	3.0	1	0.55	3.1
G285105		11.66	0.56	0.08	0.88	3020	90	0.21	82.5	16.45	0.05	11.95	12.6	11	2.63	4.3
G285106		8.30	0.87	0.24	4.77	642	170	1.11	53.4	8.79	0.03	49.6	62.9	67	3.06	6.8
G285107		10.66	0.02	0.08	0.17	312	10	0.09	44.4	14.55	0.06	5.94	4.4	2	0.23	3.0
G285108		0.28	1.49	1.71	0.10	>10000	20	<0.05	328	11.90	0.81	54.2	1.5	6	0.63	15.2
G285109		3.96	0.10	0.08	0.12	819	10	0.08	62.9	17.25	0.44	7.51	4.8	1	0.32	2.8
G285110		11.62	1.00	0.14	0.19	1020	20	0.11	27.4	17.75	0.58	6.39	1.3	3	0.39	1.7
G285111		8.00	0.17	0.30	1.17	1240	70	0.36	435	12.75	0.40	6.31	13.3	7	6.16	4.9
G285112		6.40	0.23	0.14	0.07	1230	10	<0.05	434	12.65	0.08	6.37	20.6	<1	0.36	2.7
G285113		14.72	0.70	0.73	0.03	3850	10	<0.05	1075	5.25	<0.02	14.40	38.5	<1	0.11	4.6
G285114		3.60	<0.01	0.02	0.09	33	10	0.08	2.76	19.10	0.05	1.77	1.3	1	0.20	1.7
G285115		11.70	0.31	0.28	0.05	3020	10	<0.05	791	6.90	0.06	28.2	31.8	<1	0.16	3.7
G285116		11.10	0.31	0.22	0.12	2470	10	<0.05	271	10.90	0.14	15.50	3.2	1	0.24	2.7
G285117		14.86	0.31	0.59	0.09	3260	10	<0.05	669	9.38	0.09	10.95	22.0	<1	0.27	3.3
G285118		12.22	0.32	0.73	0.11	2500	10	<0.05	273	11.50	0.14	8.31	2.6	<1	0.38	11.4
G285119		5.58	0.33	0.67	0.10	2390	10	<0.05	257	11.40	0.09	8.27	2.7	1	0.33	10.9
G285120		6.16	0.20	0.45	0.08	1880	10	<0.05	119.5	14.40	0.15	7.63	0.9	1	0.51	4.4
G285121		10.20	0.03	0.43	0.11	479	10	0.05	181.5	13.05	0.13	48.7	7.2	<1	0.41	2.3
G285122		7.68	0.04	0.22	0.16	693	10	<0.05	179.5	6.71	0.05	98.8	4.2	2	0.19	1.6
G285123		3.76	<0.01	0.01	0.06	8	10	0.08	1.41	19.55	0.07	1.75	0.9	1	0.12	2.4
G285124		9.28	0.03	1.46	0.34	736	10	0.06	279	9.23	0.91	135.5	3.3	3	0.29	3.7
G285125		9.08	0.01	0.10	0.31	382	10	0.12	176.5	15.75	0.91	12.90	5.4	3	0.65	3.6
G285126		10.88	0.02	0.05	0.12	205	10	0.05	166.0	15.75	0.09	15.05	2.2	1	0.41	2.0
G285127		13.00	0.02	0.30	0.14	173	10	0.09	38.5	16.65	0.86	7.99	2.7	1	0.40	12.8
G285128		7.82	0.01	1.69	0.94	167	10	0.24	30.8	14.25	3.40	8.74	3.6	8	0.51	14.1
G285129		9.36	0.02	10.10	0.18	273	20	0.06	166.5	16.25	8.61	9.70	5.3	2	0.58	13.7
G285130		11.06	0.03	4.25	0.19	351	400	0.13	246	18.20	4.41	9.71	7.4	2	0.65	22.6
G285131		10.78	0.08	0.95	0.30	558	200	0.17	111.0	17.35	1.91	10.15	9.7	2	0.62	3.3
G285132		5.08	0.01	1.00	0.24	420	20	0.11	170.0	17.50	1.71	6.27	2.3	1	0.73	16.5
G285133		0.28	4.68	0.24	0.12	>10000	30	<0.05	442	8.07	0.06	34.7	1.7	13	0.71	36.7
G285134		10.04	0.02	0.67	1.04	771	120	0.57	84.2	16.65	1.29	7.82	6.9	13	1.42	8.2

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09111373

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G285099		4.39	17.65	0.17	1.1	<0.1	0.060	3.18	38.6	22.7	1.59	1290	0.29	0.06	36.8	64.7
G285100		3.11	12.75	0.13	1.9	<0.1	0.054	2.38	31.9	13.8	0.87	949	0.27	0.04	19.2	49.2
G285101		7.20	17.30	0.18	0.7	<0.1	0.068	3.44	38.4	28.4	1.24	535	0.28	0.05	49.6	72.5
G285102		4.60	17.05	0.16	1.2	<0.1	0.065	3.03	32.6	21.4	1.06	600	0.29	0.05	44.0	54.0
G285103		5.94	18.75	0.22	1.6	<0.1	0.105	3.59	49.7	26.7	2.14	1020	1.33	0.04	59.6	69.1
G285104		8.52	0.96	0.13	0.1	<0.1	0.060	0.06	8.7	2.2	8.77	3130	0.13	0.02	0.8	4.1
G285105		7.48	3.39	0.12	0.6	<0.1	0.079	0.51	5.4	6.2	8.53	3520	0.47	0.02	6.2	20.3
G285106		6.72	15.85	0.16	3.1	<0.1	0.046	2.36	26.2	25.2	4.99	2040	2.28	0.04	30.1	93.8
G285107		6.90	1.06	0.10	0.1	<0.1	0.021	0.02	3.1	2.1	8.83	1190	0.14	0.03	0.5	10.6
G285108		15.45	0.92	0.22	0.1	<0.1	0.090	0.06	34.6	1.9	6.57	2040	5.86	0.01	0.7	7.3
G285109		6.97	0.76	0.09	0.1	<0.1	0.049	0.02	3.1	2.3	10.10	2960	0.18	0.02	0.5	9.0
G285110		6.04	1.25	0.09	0.2	<0.1	0.066	0.04	3.0	2.3	10.30	2700	0.10	0.02	1.1	3.3
G285111		13.05	7.71	0.18	0.8	<0.1	0.043	0.60	2.6	5.1	7.29	2310	0.20	0.04	5.7	23.8
G285112		16.85	0.61	0.22	0.1	<0.1	0.049	0.03	2.8	1.6	7.10	2770	0.14	0.02	0.4	31.8
G285113		31.5	0.34	0.29	<0.1	<0.1	0.019	0.01	8.9	0.8	2.83	1040	<0.05	0.01	0.3	67.7
G285114		0.45	0.31	0.16	<0.1	<0.1	<0.005	0.04	0.8	1.6	12.30	180	0.17	0.01	0.5	3.0
G285115		25.8	0.60	0.34	0.1	<0.1	0.017	0.01	18.0	1.4	3.84	1370	<0.05	0.01	0.4	52.4
G285116		17.75	0.89	0.23	0.1	<0.1	0.050	0.02	8.7	1.6	6.10	1850	0.10	0.02	0.7	8.6
G285117		22.1	0.72	0.25	0.1	<0.1	0.040	0.03	5.7	1.6	5.26	1620	<0.05	0.02	0.6	32.4
G285118		17.85	0.87	0.26	0.1	<0.1	0.087	0.03	3.6	1.7	6.84	1890	0.10	0.02	0.7	4.7
G285119		17.20	0.79	0.24	0.1	<0.1	0.076	0.02	3.8	1.6	6.49	1780	0.11	0.02	0.6	4.9
G285120		13.00	0.71	0.18	0.1	<0.1	0.105	0.04	2.8	2.4	8.19	2900	0.12	0.02	0.4	2.3
G285121		14.25	0.99	0.19	0.1	<0.1	0.037	0.01	30.5	1.6	7.60	3000	0.10	0.02	0.5	17.3
G285122		18.30	1.33	0.24	0.1	<0.1	0.016	0.01	66.2	1.0	3.74	1440	0.16	0.02	0.7	15.5
G285123		0.47	0.25	0.16	<0.1	<0.1	<0.005	0.02	0.9	1.2	12.60	194	0.20	0.01	0.3	3.1
G285124		17.80	2.51	0.24	0.3	<0.1	0.034	0.01	89.0	1.6	5.90	2500	0.16	0.04	1.6	12.3
G285125		6.82	1.92	0.10	0.3	<0.1	0.043	0.02	5.4	2.7	9.55	3870	0.12	0.04	1.8	12.5
G285126		8.39	0.89	0.11	0.1	<0.1	0.035	0.01	7.3	2.1	9.33	3060	0.11	0.03	0.5	7.0
G285127		6.85	0.94	0.09	0.2	<0.1	0.042	0.01	3.2	2.1	9.90	2760	0.15	0.03	0.7	5.1
G285128		4.86	5.80	0.08	0.8	<0.1	0.102	0.03	3.8	2.6	8.65	2730	0.19	0.10	4.2	6.9
G285129		6.42	1.28	0.10	0.2	<0.1	0.156	0.02	3.6	2.4	9.59	4200	0.39	0.03	1.0	13.4
G285130		4.96	1.36	0.09	0.2	<0.1	0.122	0.03	3.6	2.5	10.70	4880	0.21	0.02	0.8	12.6
G285131		6.19	2.10	0.09	0.2	<0.1	0.081	0.13	4.0	2.5	9.89	5800	0.13	0.01	1.2	18.7
G285132		6.50	1.77	0.09	0.2	<0.1	0.079	0.10	2.3	2.7	9.64	5320	0.21	0.02	0.8	7.0
G285133		21.5	1.00	0.30	0.1	<0.1	0.065	0.07	22.4	1.4	4.53	1340	11.40	0.01	1.5	13.3
G285134		5.70	6.61	0.08	0.7	<0.1	0.124	0.44	3.2	3.9	9.38	5750	0.24	0.03	4.4	15.7

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09111373

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G285099		1710	54.7	191.0	0.002	1.21	2.29	14.1	2	10.4	107.5	1.89	0.06	3.6	1.050	1.44
G285100		2480	5.2	85.7	<0.002	0.03	0.98	10.5	2	0.8	194.5	0.80	<0.05	2.9	0.971	0.45
G285101		1040	2.2	119.5	<0.002	0.04	0.50	13.8	3	1.6	135.5	2.65	<0.05	3.5	1.560	0.54
G285102		1790	2.5	104.0	0.002	0.04	0.69	12.4	2	1.5	146.0	2.31	<0.05	3.4	1.395	0.47
G285103		1250	1.5	177.0	<0.002	0.95	0.76	15.2	2	4.4	94.2	3.11	<0.05	5.3	1.540	1.07
G285104		140	2.2	8.9	<0.002	7.06	2.07	0.7	2	0.3	108.0	<0.05	0.15	<0.2	0.018	0.07
G285105		260	2.5	47.8	0.002	4.84	1.47	2.2	2	1.3	102.5	0.31	0.06	0.8	0.104	0.26
G285106		900	3.9	102.5	0.008	6.19	2.00	9.9	2	6.4	61.8	1.59	0.08	4.8	0.431	0.73
G285107		140	3.0	1.2	<0.002	7.46	1.56	0.8	2	0.3	50.9	<0.05	0.10	<0.2	0.009	0.07
G285108		120	13.3	7.8	0.005	>10.0	19.70	0.6	5	1.1	87.6	<0.05	0.73	0.5	0.010	0.09
G285109		120	4.7	1.7	0.002	5.18	1.90	0.9	2	0.2	97.4	<0.05	0.09	<0.2	0.007	0.18
G285110		110	23.2	4.9	<0.002	4.85	1.39	0.8	2	1.0	101.5	0.06	0.07	<0.2	0.021	0.10
G285111		450	17.2	71.8	0.004	>10.0	9.46	1.6	4	2.0	81.9	0.32	0.46	0.4	0.121	0.73
G285112		110	4.6	3.3	0.006	>10.0	10.85	0.8	5	0.2	96.5	<0.05	0.50	<0.2	0.006	0.14
G285113		90	13.3	1.0	<0.002	>10.0	22.6	0.4	11	0.4	35.4	<0.05	1.17	0.2	<0.005	0.07
G285114		250	1.2	1.9	<0.002	0.10	0.14	0.4	2	<0.2	46.2	<0.05	<0.05	<0.2	<0.005	<0.02
G285115		100	8.7	1.1	<0.002	>10.0	16.65	0.8	10	0.5	51.0	<0.05	0.83	0.2	0.005	0.03
G285116		160	15.8	1.7	<0.002	>10.0	8.31	0.8	7	0.3	68.9	<0.05	0.53	<0.2	0.011	0.11
G285117		110	12.7	2.8	0.009	>10.0	12.15	0.7	10	0.4	62.6	<0.05	0.80	0.3	0.011	0.10
G285118		80	17.0	3.7	<0.002	>10.0	9.73	0.9	12	0.4	72.6	<0.05	0.28	<0.2	0.011	0.07
G285119		80	17.3	2.9	<0.002	>10.0	9.21	0.8	11	0.4	66.7	<0.05	0.23	<0.2	0.009	0.06
G285120		100	16.3	4.4	<0.002	>10.0	4.10	0.9	9	0.6	94.9	<0.05	0.09	<0.2	0.007	0.06
G285121		160	6.4	2.1	<0.002	>10.0	2.25	1.5	3	0.4	98.1	<0.05	0.24	0.2	0.008	0.07
G285122		170	5.5	0.9	0.006	>10.0	2.03	1.1	3	0.4	60.3	<0.05	0.26	0.4	0.013	0.08
G285123		230	1.4	1.2	<0.002	0.09	0.05	0.4	2	0.2	50.3	<0.05	<0.05	<0.2	<0.005	<0.02
G285124		350	4.4	1.2	0.002	>10.0	3.61	2.5	3	0.7	81.4	0.09	0.46	0.4	0.033	0.13
G285125		400	8.1	3.7	0.007	5.77	2.03	2.1	2	1.0	135.5	0.11	0.22	0.2	0.041	0.18
G285126		160	4.5	1.5	0.002	9.38	2.47	1.7	2	0.3	107.0	<0.05	0.23	<0.2	0.010	0.09
G285127		200	41.5	1.1	0.002	7.15	1.23	1.9	2	0.4	88.9	<0.05	0.08	<0.2	0.013	0.09
G285128		380	123.0	4.3	<0.002	3.98	2.09	1.7	2	2.5	74.6	0.24	0.09	0.3	0.094	0.14
G285129		190	385	1.9	0.003	5.76	2.69	2.3	2	1.7	106.0	0.06	0.22	<0.2	0.019	0.13
G285130		290	246	4.4	0.004	2.74	4.86	1.7	2	1.6	107.5	0.05	0.27	<0.2	0.016	0.24
G285131		330	74.6	11.3	<0.002	2.26	2.61	1.5	2	2.6	104.5	0.07	0.11	0.2	0.026	0.07
G285132		350	86.8	9.8	<0.002	1.99	3.37	1.2	2	1.9	123.5	<0.05	0.11	<0.2	0.017	0.09
G285133		70	6.1	8.2	0.003	>10.0	21.8	0.4	8	1.9	59.5	0.07	1.25	0.3	0.008	0.15
G285134		530	45.0	33.7	0.002	1.61	2.38	2.9	2	7.3	91.1	0.26	0.10	0.7	0.097	0.20

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09111373

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
G285099		1.4	133	11.9	13.6	367	45.6	
G285100		3.6	187	7.5	16.1	47	84.8	
G285101		0.3	200	0.5	14.0	45	27.7	
G285102		1.0	192	1.9	14.3	38	53.2	
G285103		1.2	179	4.8	18.1	31	70.4	
G285104		0.2	6	79.5	8.0	18	3.7	
G285105		1.4	18	84.5	8.9	24	23.2	
G285106		4.2	91	500	12.7	15	126.5	
G285107		0.4	9	2.9	5.1	17	3.9	
G285108		0.9	6	195.5	6.6	127	3.1	2.52
G285109		0.3	9	103.0	7.2	107	3.5	
G285110		0.2	7	72.3	5.6	104	6.3	
G285111		0.9	23	278	6.0	98	30.4	
G285112		0.4	4	610	5.4	28	2.9	
G285113		2.1	3	124.5	3.2	18	1.3	
G285114		0.5	2	0.9	1.1	14	<0.5	
G285115		1.1	4	244	4.9	18	2.2	
G285116		1.0	8	72.9	5.1	27	4.2	
G285117		3.9	4	880	5.9	32	4.0	
G285118		0.2	6	104.0	7.0	28	4.5	
G285119		0.2	6	36.9	6.3	18	3.7	
G285120		0.1	5	11.9	7.3	33	3.0	
G285121		1.9	7	32.7	13.7	33	3.8	
G285122		2.4	8	560	6.4	11	5.0	
G285123		0.4	3	1.2	0.9	16	<0.5	
G285124		2.2	15	228	13.4	148	11.0	
G285125		1.6	12	750	12.6	114	12.3	
G285126		2.3	8	150.0	12.4	20	5.0	
G285127		0.5	7	45.6	9.5	224	6.0	
G285128		2.3	27	48.6	8.8	838	33.8	
G285129		1.0	9	402	13.0	1870	9.2	
G285130		1.4	8	173.5	14.5	982	6.7	
G285131		0.7	11	9.0	12.2	518	8.6	
G285132		0.5	7	5.1	8.2	419	6.7	
G285133		0.4	6	35.2	4.3	15	5.2	4.75
G285134		0.9	28	12.9	10.7	382	25.7	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-OCT-2009
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CERTIFICATE OF ANALYSIS VA09111373

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 20-OCT-2009
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CERTIFICATE VA09111372

Project: RAU

P.O. No.: Batch 77

This report is for 13 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 9-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09111372

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
G285135		11.06	0.42	0.09	2.08	146	310	0.74	74.3	13.80	0.07	31.5	7.7	23	8.32	72.6
G285136		11.32	0.22	0.09	1.35	37	150	0.42	66.4	14.75	0.11	15.00	6.6	16	6.10	12.4
G285137		8.22	0.01	0.09	1.27	28	150	0.40	2.09	14.85	0.15	19.25	5.3	16	1.96	6.2
G285138		3.42	0.08	0.71	0.20	4240	30	0.07	49.9	11.75	4.71	12.10	2.8	<1	0.18	4.7
G285139		15.40	0.01	0.13	2.56	70.7	70	0.67	0.28	7.56	0.10	37.4	24.3	46	2.86	15.3
G285140		0.28	1.60	1.49	0.11	>10000	30	<0.05	328	11.90	0.78	54.7	1.5	6	0.69	15.4
G285141		11.04	<0.01	0.10	7.85	36.5	980	1.73	0.59	9.35	0.16	135.5	41.9	51	9.32	35.6
G285142		11.08	<0.01	0.08	8.17	19.6	1130	1.77	0.20	9.60	0.15	125.5	36.3	52	6.51	50.8
G285143		3.92	<0.01	0.12	0.12	13	30	0.10	0.10	20.4	0.05	2.40	0.9	1	0.22	1.3
G285144		1.56	1.25	0.47	0.09	>10000	20	0.06	161.0	11.85	0.18	8.68	1.2	<1	0.21	3.3
G285145		1.38	3.13	5.41	0.21	>10000	20	0.07	267	8.56	5.10	19.60	0.9	<1	0.22	5.6
G285146		1.12	13.55	3.94	0.49	>10000	90	<0.05	856	1.77	<0.02	5.31	1.3	5	2.40	6.3
G285147		1.54	15.55	0.53	0.17	>10000	30	0.12	610	5.73	0.23	9.25	0.7	<1	0.48	4.1

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CERTIFICATE OF ANALYSIS VA09111372

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
G285135		5.56	7.81	0.11	0.9	<1	0.058	1.12	18.0	15.3	6.91	4870	0.34	0.03	10.7	22.9
G285136		4.01	4.15	0.08	0.8	<1	0.035	0.79	9.4	9.1	5.32	2560	0.44	0.02	7.2	16.8
G285137		3.26	3.59	0.06	0.6	<1	0.015	0.60	13.7	6.2	7.66	353	0.28	0.01	7.1	17.8
G285138		19.85	1.15	0.21	0.1	<1	0.147	0.06	4.9	1.3	6.45	5700	1.39	0.01	0.6	7.0
G285139		14.80	9.41	0.20	1.3	<1	0.041	1.14	22.8	8.7	3.17	186	0.49	0.04	14.2	74.5
G285140		15.55	0.82	0.21	0.1	<1	0.094	0.07	35.4	1.8	6.62	2060	5.29	0.01	0.6	6.4
G285141		5.05	21.3	0.18	1.4	<1	0.099	3.68	66.0	17.9	1.63	282	0.26	0.06	49.1	125.5
G285142		4.54	20.8	0.19	5.9	<1	0.105	3.70	60.4	11.4	1.67	342	0.23	0.09	56.7	113.0
G285143		0.42	0.31	0.14	<0.1	<1	0.008	0.05	1.2	1.4	13.00	194	0.16	0.01	0.6	2.6
G285144		23.7	0.72	0.21	0.1	<1	0.173	0.03	3.2	1.0	4.34	6840	0.47	0.01	0.4	3.7
G285145		30.0	1.06	0.28	0.1	<1	0.335	0.04	7.9	1.2	4.04	6440	0.27	0.01	0.5	2.6
G285146		25.1	2.03	0.19	0.2	<1	0.207	0.29	2.7	2.7	0.81	143	0.14	0.01	1.1	5.0
G285147		38.2	1.23	0.30	0.1	<1	0.199	0.07	3.4	0.9	2.46	6210	0.23	0.01	0.6	1.2

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

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09111372

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G285135		990	4.1	66.7	0.002	1.92	1.32	4.2	2	3.5	80.8	0.52	0.12	1.4	0.285	0.63
G285136		810	4.3	56.8	<0.002	2.16	1.31	2.8	2	1.5	78.9	0.34	0.08	1.4	0.161	0.43
G285137		560	7.3	23.3	<0.002	2.84	1.09	2.7	2	0.6	63.9	0.32	<0.05	1.3	0.170	0.28
G285138		180	89.3	3.9	<0.002	5.20	7.37	0.5	2	1.8	87.6	<0.05	0.06	<0.2	0.009	0.05
G285139		1340	10.9	32.9	<0.002	>10.0	2.34	5.4	2	1.2	44.5	0.67	0.15	2.2	0.364	0.35
G285140		110	13.5	7.3	0.004	>10.0	22.2	0.4	5	1.2	86.3	<0.05	0.86	0.4	0.010	0.09
G285141		2070	8.4	94.3	<0.002	1.57	1.67	16.7	2	2.2	85.6	2.68	<0.05	4.8	1.570	0.46
G285142		2010	7.2	86.4	<0.002	0.06	1.70	18.1	2	2.1	97.6	3.02	<0.05	6.2	1.940	0.25
G285143		340	1.2	1.9	<0.002	0.02	0.05	0.4	1	<0.2	50.6	<0.05	<0.05	0.2	0.013	<0.02
G285144		200	7.8	3.8	0.002	1.78	8.99	0.4	2	0.4	81.9	<0.05	0.20	<0.2	0.005	0.17
G285145		270	115.0	4.8	<0.002	3.75	16.15	0.5	3	1.0	80.6	<0.05	0.40	<0.2	0.007	0.19
G285146		200	8.1	24.5	<0.002	6.26	52.5	0.9	4	0.7	33.5	<0.05	0.26	0.9	0.027	0.18
G285147		270	14.2	6.9	0.009	2.18	25.4	0.3	3	0.6	58.6	<0.05	0.29	0.4	0.009	0.30

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09111372

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
G285135		1.0	60	60.9	14.9	37	40.2	
G285136		1.0	32	28.0	11.4	31	28.8	
G285137		0.6	30	1.4	9.7	32	25.1	
G285138		0.9	6	1.8	11.7	1210	3.6	
G285139		1.3	105	1.9	12.3	56	53.2	
G285140		0.6	6	201	6.9	130	3.0	2.46
G285141		0.6	196	2.5	19.1	98	56.5	
G285142		5.6	216	0.7	21.7	126	229	
G285143		0.6	4	0.2	1.1	16	1.0	
G285144		0.4	2	305	11.9	55	2.5	1.81
G285145		0.6	5	138.5	13.6	1250	3.0	2.16
G285146		0.4	7	60.9	1.6	28	7.4	20.0
G285147		3.1	4	1700	11.2	62	4.3	2.97

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CERTIFICATE OF ANALYSIS VA09111372

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE VA09109504

Project: RAU

P.O. No.: Batch 73

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 17-OCT-2009
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CERTIFICATE OF ANALYSIS VA09109504

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G284491		4.58	<0.01	0.06	13.55	13.4	1610	2.83	0.52	1.76	<0.02	180.0	22.0	6	47.3	48.5
G284492		4.42	<0.01	<0.01	13.75	9.8	2130	4.01	0.51	1.85	<0.02	197.0	12.8	43	39.7	46.5
G284493		5.44	<0.01	0.09	9.03	5.9	1590	3.93	0.90	1.98	1.03	138.0	13.8	6	39.2	118.5
G284494		2.12	<0.01	<0.01	14.15	7.0	1200	2.80	0.19	3.12	0.85	149.0	21.8	3	62.7	16.2
G284495		0.86	<0.01	<0.01	15.45	6.6	1300	2.81	0.28	2.69	<0.02	150.0	24.3	4	65.9	17.2
G284496		5.74	<0.01	0.11	13.95	2.8	1350	3.63	0.85	3.13	0.30	162.5	18.2	11	45.2	108.0
G284497		5.66	<0.01	0.11	12.60	2.8	1490	3.61	2.12	3.31	0.11	179.5	38.0	145	47.8	166.5
G284498		2.06	0.01	0.13	2.35	27	140	0.31	0.51	20.1	0.16	14.35	12.9	66	4.93	10.8
G284499		12.70	3.27	0.37	0.10	>10000	20	<0.05	465	7.46	0.05	4.35	1.1	2	0.75	8.2
G284500		9.34	0.52	0.08	0.14	1150	20	0.08	133.0	14.05	0.04	10.55	0.5	1	1.27	6.7
G285001		1.54	5.59	0.11	0.06	>10000	10	0.35	493	4.32	0.02	6.41	0.4	3	0.64	8.7
G285002		0.28	1.57	1.74	0.11	>10000	30	0.07	365	13.00	0.82	52.2	1.8	8	0.63	18.8
G285003		15.44	2.93	0.21	0.18	>10000	10	0.41	936	6.56	0.04	40.2	1.2	2	0.85	5.6
G285004		14.22	2.81	0.09	0.28	>10000	40	0.10	300	11.70	0.03	12.25	0.9	3	2.24	4.4
G285005		13.54	3.83	0.09	0.23	>10000	30	0.21	2600	13.05	0.05	8.38	0.7	4	1.38	5.1
G285006		12.68	0.33	0.05	0.13	>10000	10	0.08	51.1	17.80	0.05	19.90	0.8	2	1.40	2.5
G285007		3.80	<0.01	<0.01	0.08	45	10	0.08	2.44	21.0	0.06	1.40	0.9	1	0.19	3.6
G285008		11.86	0.26	0.10	0.11	8810	10	<0.05	806	16.45	0.06	25.3	1.4	1	1.17	3.5
G285009		13.56	0.22	0.06	0.20	4760	10	0.05	178.0	15.30	0.06	11.70	0.9	3	1.30	2.9
G285010		12.94	0.22	0.08	0.15	5640	10	0.09	80.5	16.70	0.05	22.3	0.9	1	1.09	4.3
G285011		12.80	0.09	0.13	0.11	2200	10	0.10	257	16.20	0.03	7.93	1.0	2	0.66	4.8
G285012		12.38	0.29	0.07	0.15	3030	10	0.08	100.5	17.50	0.04	14.65	0.7	2	1.17	2.6
G285013		12.06	1.28	0.09	0.18	>10000	10	0.11	112.0	11.95	0.08	21.2	0.8	3	1.43	3.2
G285014		12.98	0.67	0.07	0.08	>10000	10	<0.05	111.0	15.50	0.06	19.95	0.7	2	0.60	2.6
G285015		13.92	0.79	0.21	0.11	>10000	<10	0.07	100.0	13.40	0.13	8.00	0.6	1	0.62	2.3
G285016		0.28	0.47	0.83	0.87	6560	120	0.25	109.0	13.55	0.15	33.2	5.8	16	1.91	32.5
G285017		14.24	7.98	0.14	0.07	>10000	10	0.22	181.5	9.05	<0.02	9.59	0.7	1	0.16	4.4
G285018		14.38	2.08	0.07	0.09	>10000	10	0.08	127.0	13.05	0.05	22.9	1.0	1	0.26	3.8
G285019		14.14	6.09	0.14	0.23	>10000	30	0.31	190.5	12.00	0.10	14.75	1.4	2	1.24	16.3
G285020		4.30	2.34	0.11	1.43	>10000	20	0.34	100.5	8.28	0.06	10.85	19.1	11	9.37	3.9
G285021		8.28	0.02	0.04	6.72	468	1830	2.00	1.09	3.61	0.27	130.5	22.7	51	43.2	4.6
G285022		6.16	<0.01	0.01	6.54	38.0	900	1.74	0.36	5.17	0.02	118.5	28.4	52	40.9	15.9
G285023		3.78	<0.01	<0.01	0.14	28	40	0.08	0.23	18.80	0.06	1.62	1.0	2	0.25	1.7
G285024		8.24	0.01	0.06	5.94	34	780	1.33	0.24	11.65	0.06	90.4	24.3	37	18.40	82.9
G285025		3.04	0.02	0.38	5.80	103.5	1210	1.32	4.71	4.85	0.77	57.4	13.1	65	3.37	34.5
G285026		3.88	0.02	0.34	5.43	317	1190	1.27	5.50	6.06	0.84	56.0	14.5	69	3.46	32.5

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Project: RAU

Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09109504

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284491		7.42	27.8	0.27	1.1	<0.01	0.081	5.12	95.5	62.4	1.88	567	0.25	2.20	128.5	4.1
G284492		8.00	31.6	0.29	1.1	<0.01	0.102	6.43	152.5	50.5	1.28	353	0.16	0.61	142.0	20.0
G284493		3.28	23.8	0.22	1.3	<0.01	0.043	5.93	72.0	36.6	1.45	348	1.86	1.01	113.0	4.2
G284494		7.19	24.0	0.25	1.0	<0.01	0.074	5.09	77.7	51.9	2.30	856	0.16	1.77	131.0	2.7
G284495		7.65	24.5	0.26	1.0	<0.01	0.069	5.00	78.5	54.2	2.47	716	0.35	2.26	132.0	3.0
G284496		5.85	25.8	0.25	1.1	<0.01	0.069	4.94	85.8	41.6	1.92	641	0.83	1.87	119.0	8.1
G284497		6.53	31.2	0.26	1.0	<0.01	0.080	5.44	94.7	59.5	2.61	666	0.70	0.73	102.0	104.5
G284498		1.86	5.47	0.09	0.3	<0.01	0.020	0.54	8.2	12.5	6.05	355	0.46	0.73	8.1	50.7
G284499		24.6	0.80	0.33	<0.1	<1	0.041	0.07	2.0	1.4	4.53	891	0.15	0.01	0.7	5.6
G284500		11.80	1.17	0.17	0.1	<0.1	0.029	0.11	6.0	3.0	8.19	1180	0.07	0.01	0.4	0.9
G285001		32.9	0.80	0.38	<0.1	<1	0.168	0.05	3.5	1.6	2.20	644	0.07	0.02	0.5	2.8
G285002		16.90	1.03	0.24	0.1	<1	0.100	0.06	34.4	2.3	7.13	2250	5.70	0.01	0.5	6.5
G285003		29.5	1.44	0.23	0.2	<1	0.064	0.07	25.7	2.4	4.05	841	0.07	0.02	1.3	3.6
G285004		17.35	1.82	0.23	0.2	<0.1	0.066	0.19	6.7	2.7	6.50	1520	0.09	0.01	1.3	2.2
G285005		16.60	1.41	0.18	0.1	<0.01	0.072	0.13	4.2	3.4	7.22	1640	<0.05	0.04	0.7	2.0
G285006		9.14	1.11	0.14	0.1	<0.01	0.049	0.10	11.7	3.2	10.20	2230	<0.05	0.01	0.5	<0.2
G285007		0.44	0.27	<0.05	<0.1	<0.01	<0.005	0.03	0.7	1.4	13.30	200	0.29	0.01	0.3	0.3
G285008		11.30	1.10	0.10	0.1	<0.01	0.045	0.08	14.6	3.3	9.16	2760	<0.05	0.01	0.5	1.8
G285009		12.25	1.35	0.16	0.1	<0.1	0.044	0.10	6.0	3.0	8.42	2650	0.06	0.01	0.7	1.7
G285010		10.20	1.17	0.14	0.1	<0.01	0.049	0.08	12.8	2.9	9.46	2400	0.05	0.01	0.8	1.0
G285011		12.10	0.70	0.15	0.1	<0.1	0.028	0.04	3.9	2.9	9.52	1220	0.08	0.01	0.4	2.1
G285012		9.63	1.07	0.14	0.1	<0.01	0.040	0.08	8.1	3.1	9.94	2400	0.05	0.01	0.6	2.0
G285013		14.75	1.35	0.18	0.1	<0.1	0.060	0.11	12.9	2.5	6.62	1780	0.11	0.01	0.9	1.8
G285014		13.50	0.71	0.17	0.1	<0.1	0.057	0.04	11.1	2.3	8.36	2690	0.10	0.01	0.4	<0.2
G285015		16.40	0.78	0.20	0.1	<0.1	0.069	0.04	3.6	1.9	7.33	2370	0.08	0.01	0.4	<0.2
G285016		15.30	3.32	0.18	0.2	<0.1	0.068	0.42	19.3	5.2	7.13	2170	16.25	0.03	3.2	19.9
G285017		20.1	0.47	0.16	<0.1	<0.1	0.161	0.02	4.9	2.2	5.07	1340	<0.05	0.02	0.4	0.8
G285018		13.50	0.61	0.16	0.1	<0.1	0.120	0.03	13.8	2.1	7.34	2080	0.11	0.01	0.4	0.7
G285019		16.20	1.47	0.34	0.1	<0.01	0.116	0.13	7.7	2.2	6.59	1940	0.33	0.02	0.7	9.0
G285020		23.5	7.80	0.17	0.8	<0.1	0.070	0.71	4.2	7.5	4.41	934	0.15	0.07	5.8	25.6
G285021		11.30	21.9	0.25	0.2	0.02	0.092	4.28	65.4	63.6	1.64	452	0.40	0.11	56.0	101.5
G285022		10.80	21.4	0.28	0.5	<0.01	0.089	3.97	56.6	77.8	1.64	343	0.33	0.72	66.3	105.0
G285023		0.44	0.40	<0.05	<0.1	<0.01	<0.005	0.09	0.8	1.7	12.20	187	0.09	0.03	0.6	0.5
G285024		6.68	18.90	0.17	1.5	<0.01	0.077	3.27	45.1	44.5	1.57	472	0.14	0.75	49.0	81.1
G285025		3.29	13.10	0.11	2.0	0.05	0.056	1.51	30.0	29.8	1.97	656	1.59	1.09	12.2	34.9
G285026		3.58	12.80	0.11	1.9	0.04	0.049	1.43	29.0	28.3	2.10	741	1.72	1.09	12.2	43.0

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09109504

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284491		4200	4.7	560	<0.002	0.57	0.19	5.1	3	11.7	285	5.94	0.13	13.5	1.550	2.20
G284492		5660	4.6	580	<0.002	0.53	0.24	10.4	3	24.0	243	6.69	0.07	16.0	1.810	2.47
G284493		3900	55.8	760	<0.002	0.58	0.39	5.1	3	37.6	277	5.57	0.09	12.4	1.425	3.38
G284494		4200	53.9	1220	<0.002	0.16	1.00	5.1	2	20.2	335	6.35	0.05	11.1	1.380	4.59
G284495		4790	5.6	1350	<0.002	0.26	0.35	5.2	3	19.3	395	6.28	0.05	11.1	1.440	4.54
G284496		4710	12.4	830	<0.002	0.67	0.38	5.5	3	26.0	325	5.68	0.07	12.1	1.565	3.22
G284497		2970	5.9	930	<0.002	1.31	0.45	16.9	2	50.6	241	4.83	0.11	15.3	1.560	4.09
G284498		350	6.0	42.1	<0.002	0.03	0.20	6.5	3	1.2	182.0	0.39	<0.05	1.3	0.274	0.35
G284499		70	4.7	7.1	<0.002	>10.0	6.85	0.3	6	0.4	39.2	<0.05	0.45	<0.2	0.009	0.09
G284500		70	2.6	13.2	<0.002	>10.0	1.49	0.8	4	0.3	64.0	<0.05	0.11	<0.2	0.006	0.09
G285001		50	3.3	7.0	0.003	>10.0	29.8	2.7	8	0.5	27.4	<0.05	1.28	<0.2	0.005	0.12
G285002		120	15.0	7.5	0.005	>10.0	20.3	0.5	5	1.1	89.4	<0.05	0.82	0.5	0.006	0.10
G285003		110	4.3	13.8	0.011	>10.0	15.40	2.8	5	0.8	35.2	0.05	0.67	0.5	0.015	0.21
G285004		150	2.7	25.0	0.002	>10.0	8.35	0.6	5	0.5	69.9	0.06	0.58	0.2	0.017	0.20
G285005		220	7.9	15.5	0.003	>10.0	27.4	2.8	6	0.4	68.9	<0.05	1.02	<0.2	0.016	0.15
G285006		80	2.7	18.8	<0.002	9.16	2.82	0.6	3	0.2	87.2	<0.05	0.15	0.2	0.007	0.12
G285007		210	1.3	1.6	<0.002	0.03	0.07	0.2	3	0.3	52.2	<0.05	<0.05	<0.2	<0.005	<0.02
G285008		80	5.1	15.5	0.002	>10.0	8.93	1.6	5	0.4	102.0	<0.05	0.31	0.3	0.005	0.13
G285009		100	3.6	16.4	0.004	>10.0	2.61	0.7	3	0.3	97.7	<0.05	0.17	<0.2	0.012	0.15
G285010		130	3.1	14.8	0.003	9.15	1.99	0.5	3	0.3	85.9	<0.05	0.12	0.3	0.009	0.11
G285011		70	3.3	7.2	<0.002	>10.0	3.28	0.4	4	0.2	61.8	<0.05	0.28	<0.2	0.005	0.07
G285012		170	3.2	12.1	<0.002	9.52	1.76	0.6	4	0.3	90.4	<0.05	0.12	<0.2	0.011	0.14
G285013		120	3.3	20.2	0.007	>10.0	6.73	0.7	5	0.3	68.2	<0.05	0.27	<0.2	0.015	0.35
G285014		130	3.3	6.2	<0.002	>10.0	2.88	0.5	3	0.2	94.4	<0.05	0.17	<0.2	0.006	0.10
G285015		120	17.2	7.6	0.002	>10.0	5.69	0.3	4	0.3	77.8	<0.05	0.77	<0.2	0.006	0.10
G285016		250	13.3	29.5	0.015	>10.0	4.17	1.8	6	2.8	86.4	0.17	0.22	0.8	0.088	0.28
G285017		80	3.7	2.1	<0.002	>10.0	32.5	2.1	12	0.2	62.8	<0.05	3.26	<0.2	0.005	0.12
G285018		120	2.8	2.5	<0.002	>10.0	11.00	0.3	6	0.2	88.3	<0.05	1.15	<0.2	0.005	0.09
G285019		110	11.2	10.2	<0.002	>10.0	23.3	<0.1	7	0.4	82.8	0.05	1.20	0.2	0.024	0.12
G285020		720	4.0	154.5	<0.002	>10.0	9.19	5.1	6	3.7	50.6	0.32	0.33	0.5	0.177	0.77
G285021		1710	11.0	274	<0.002	0.84	1.91	14.3	2	7.1	76.5	2.91	<0.05	4.9	1.575	2.72
G285022		1950	1.3	171.5	<0.002	0.02	0.33	15.5	2	2.2	126.0	3.45	<0.05	5.2	1.870	1.20
G285023		220	1.4	2.0	<0.002	0.02	0.06	0.2	3	0.8	51.2	<0.05	<0.05	<0.2	0.034	<0.02
G285024		1590	2.0	115.5	<0.002	0.03	0.34	12.7	2	1.7	149.5	2.69	<0.05	4.2	1.555	0.43
G285025		1030	23.2	71.9	<0.002	0.02	1.90	11.3	1	2.2	219	0.79	0.07	8.2	0.362	0.55
G285026		910	20.3	67.6	<0.002	0.02	1.89	11.5	2	1.9	206	0.76	0.06	7.5	0.372	0.54

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09109504

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
G284491		1.2	92	3.3	30.3	97	>500
G284492		1.7	139	5.1	35.9	48	>500
G284493		1.6	95	18.0	26.1	252	>500
G284494		1.1	99	3.8	32.0	339	48.7
G284495		1.1	104	2.2	32.4	78	47.6
G284496		1.3	113	55.2	28.4	134	>500
G284497		1.8	181	15.2	33.5	94	44.4
G284498		0.5	41	0.9	6.9	54	7.6
G284499		0.2	7	60.7	3.9	10	2.1
G284500		0.1	9	12.0	5.6	10	2.1
G285001		0.2	3	264	2.8	5	1.9
G285002		0.7	5	183.0	7.2	141	3.0
G285003		0.8	5	640	4.9	9	5.9
G285004		11.6	8	169.5	5.7	10	6.4
G285005		0.3	6	174.5	4.6	11	3.8
G285006		0.4	5	147.5	6.5	13	3.6
G285007		0.5	2	0.6	0.9	15	<0.5
G285008		2.0	3	251	7.3	25	3.0
G285009		0.3	5	355	6.6	18	4.6
G285010		1.6	5	274	7.0	14	4.5
G285011		0.2	6	39.7	5.8	12	2.6
G285012		0.4	6	121.0	6.4	21	3.7
G285013		0.7	5	680	5.9	22	5.3
G285014		0.6	4	118.0	7.1	18	2.5
G285015		0.2	4	123.0	5.8	28	2.9
G285016		0.4	18	60.1	6.9	36	6.8
G285017		0.1	5	48.1	4.1	8	1.9
G285018		0.2	7	33.0	6.1	11	2.4
G285019		0.2	9	119.0	6.7	19	6.3
G285020		0.9	37	44.4	9.5	28	33.0
G285021		0.3	133	28.2	19.7	119	8.2
G285022		0.6	168	1.9	24.1	60	20.5
G285023		0.6	6	0.3	1.0	16	0.8
G285024		1.9	203	1.2	16.4	39	60.5
G285025		2.1	126	3.6	17.7	131	64.1
G285026		2.0	125	3.8	16.9	127	59.0

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09109504

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE VA09109503

Project: RAU

P.O. No.: Batch 72

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09109503

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G284455		7.02	0.53	0.20	3.64	6400	50	1.44	44.7	6.97	0.10	47.6	31.0	20	6.83	23.9
G284456		7.20	5.32	0.26	0.54	>10000	90	0.21	240	10.25	0.22	8.77	7.6	3	0.58	6.5
G284457		3.16	0.16	0.30	6.74	>10000	190	1.64	4.57	0.78	3.25	29.3	28.8	44	13.20	36.8
G284458		3.60	<0.01	0.02	0.14	135	20	0.10	0.93	19.60	0.07	1.92	1.0	2	0.23	2.6
G284459		1.30	0.02	0.03	0.05	199	20	<0.05	0.47	35.7	0.15	2.78	1.8	2	0.07	1.8
G284460		5.54	1.48	0.36	0.53	>10000	30	0.29	39.3	13.80	0.34	8.37	6.0	5	1.89	7.1
G284461		3.44	0.28	0.25	0.72	>10000	20	0.29	10.35	17.05	0.23	9.04	7.3	8	1.15	9.7
G284462		14.44	0.59	0.93	0.29	>10000	40	0.07	109.5	13.70	2.68	13.00	2.4	2	0.68	4.1
G284463		13.42	3.91	0.59	0.72	>10000	100	0.23	45.2	13.25	1.25	8.22	2.1	6	0.73	3.0
G284464		13.30	0.29	0.38	0.11	9240	20	<0.05	170.0	12.85	0.66	9.85	1.7	2	0.21	3.8
G284465		14.08	0.89	0.11	0.26	7550	40	0.07	158.5	12.50	0.39	17.85	1.7	2	0.38	6.1
G284466		4.64	0.23	0.06	0.22	6660	50	<0.05	173.0	12.70	0.05	9.06	1.4	1	0.24	3.7
G284467		0.28	1.54	1.90	0.13	>10000	30	<0.05	365	12.30	0.82	62.0	1.6	10	0.67	17.9
G284468		8.70	0.45	0.13	0.93	>10000	100	0.26	29.0	14.80	0.29	10.00	1.1	11	0.75	3.1
G284469		10.86	0.09	0.09	0.94	6890	260	0.35	8.48	17.20	0.14	8.19	1.2	22	0.77	2.2
G284470		5.88	0.15	0.08	1.01	4580	250	0.30	8.73	16.75	0.26	7.28	1.3	18	0.70	2.5
G284471		8.02	1.65	0.12	1.85	2080	210	0.70	92.4	13.50	0.43	12.55	9.6	16	2.28	5.1
G284472		9.86	<0.01	0.05	0.38	694	40	0.27	186.0	17.45	0.10	11.20	3.8	2	1.96	2.7
G284473		6.80	0.03	0.19	0.46	1710	30	0.21	179.5	19.05	0.35	12.85	2.5	3	1.97	5.2
G284474		9.10	<0.01	0.23	0.10	910	20	0.06	21.8	20.6	0.96	8.77	1.2	1	0.26	3.4
G284475		3.34	0.02	0.49	0.29	1230	50	0.12	7.60	19.40	1.38	6.97	3.1	5	1.16	11.7
G284476		0.72	<0.01	0.30	0.07	1600	60	0.12	3.33	20.4	0.86	7.77	2.7	1	0.18	2.7
G284477		0.28	0.47	0.91	0.86	5230	90	0.27	107.5	12.40	0.13	36.9	5.8	17	2.02	34.1
G284478		1.24	0.02	1.45	0.19	1900	70	0.15	84.1	23.4	2.07	13.25	2.3	1	0.36	18.6
G284479		1.16	0.55	0.77	1.47	>10000	310	0.50	288	1.77	5.78	22.9	11.3	17	0.88	46.1
G284480		3.36	2.37	1.10	1.57	>10000	280	0.83	610	0.95	4.27	26.7	12.3	20	1.33	86.5
G284481		1.88	0.18	0.29	0.38	>10000	120	0.13	40.8	0.52	2.91	12.05	5.3	2	0.09	24.7
G284482		2.60	0.15	3.34	0.51	>10000	210	0.23	20.6	0.71	7.51	22.6	7.0	3	0.22	38.2
G284483		3.80	<0.01	0.01	0.10	50	30	0.11	0.15	20.1	0.06	1.35	1.0	2	0.19	1.5
G284484		7.16	<0.01	0.02	0.51	62	180	0.16	0.11	37.2	0.12	7.45	1.1	5	0.46	3.1
G284485		2.92	<0.01	0.14	2.75	7	370	0.94	4.81	24.3	0.06	48.1	21.6	22	6.30	63.5
G284486		3.40	<0.01	0.04	0.69	9	190	0.26	0.07	36.6	0.22	10.50	1.9	21	0.44	2.8
G284487		4.84	<0.01	0.14	8.80	8.2	970	3.02	0.35	6.24	0.03	156.0	23.9	113	21.4	10.9
G284488		5.96	<0.01	0.14	8.50	22.8	470	1.70	0.47	6.46	<0.02	101.0	40.7	159	61.1	21.1
G284489		4.76	<0.01	0.21	11.00	12.5	1830	4.25	0.51	2.25	<0.02	181.5	23.1	19	42.0	47.5
G284490		5.96	<0.01	0.40	11.25	7.4	2080	4.71	1.45	2.39	<0.02	196.0	36.0	79	49.7	210

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09109503

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284455		13.40	16.90	0.18	0.3	0.01	0.103	1.89	23.5	17.9	4.22	2070	1.22	0.05	17.1	75.0
G284456		19.30	3.35	0.12	0.4	0.02	0.138	0.24	3.4	2.8	5.90	1990	0.38	0.02	2.4	14.3
G284457		25.3	36.0	0.26	1.3	0.02	0.093	3.00	13.1	22.9	1.16	4240	0.60	0.06	9.1	76.3
G284458		0.61	0.42	<0.05	<0.1	<0.01	0.005	0.06	0.9	1.2	12.70	230	0.18	0.01	0.5	<0.2
G284459		1.95	0.21	<0.05	<0.1	<0.01	0.076	0.02	2.1	0.4	1.39	860	0.10	<0.01	0.2	0.3
G284460		14.50	3.05	0.13	0.3	<0.01	0.140	0.14	3.6	2.8	7.57	4970	0.25	0.02	2.2	11.8
G284461		7.43	4.04	0.09	0.6	<0.01	0.059	0.12	4.6	2.6	10.10	2340	0.65	0.05	4.0	13.0
G284462		14.65	1.90	0.16	0.2	<0.01	0.093	0.13	6.6	2.3	8.01	3050	0.12	0.01	1.5	5.1
G284463		13.80	4.09	0.15	0.4	<0.01	0.114	0.32	3.8	3.1	7.41	2970	0.12	0.02	3.5	5.5
G284464		18.25	0.71	0.17	0.1	<0.01	0.074	0.04	5.3	1.5	7.52	2700	0.09	0.01	0.3	2.9
G284465		18.00	1.42	0.16	0.1	<0.01	0.062	0.09	11.1	1.6	7.30	2690	0.12	0.01	0.8	5.1
G284466		16.25	1.47	0.16	0.1	<0.01	0.064	0.10	4.8	1.5	7.52	2350	0.12	0.01	0.5	1.2
G284467		17.40	0.94	0.19	0.1	<0.01	0.110	0.08	40.1	1.9	7.08	2330	5.58	0.01	0.5	6.4
G284468		11.35	5.48	0.12	0.8	<0.01	0.106	0.40	5.2	3.6	8.74	2590	0.17	0.02	4.8	2.2
G284469		6.05	5.56	0.07	0.8	<0.01	0.067	0.41	4.5	4.2	10.30	2450	0.37	0.02	4.9	2.5
G284470		7.02	5.26	0.08	0.8	<0.01	0.056	0.43	4.0	3.8	10.05	2690	0.34	0.02	4.7	1.8
G284471		12.05	10.60	0.14	1.0	<0.01	0.092	0.81	5.2	9.4	7.54	8240	0.30	0.03	9.5	21.3
G284472		6.03	2.66	0.09	0.3	<0.01	0.081	0.20	4.1	4.4	8.94	8710	0.10	0.02	1.6	7.9
G284473		6.07	3.10	0.09	0.3	<0.01	0.088	0.14	4.9	4.0	8.97	9070	0.16	0.02	1.8	3.1
G284474		4.68	0.76	0.05	0.1	<0.01	0.085	0.03	3.4	2.1	9.82	7200	0.34	0.01	0.2	<0.2
G284475		3.86	0.97	0.05	0.1	<0.01	0.087	0.09	3.3	3.3	11.00	3650	0.44	0.03	0.8	6.2
G284476		4.61	0.60	0.06	<0.1	<0.01	0.053	0.03	3.5	1.4	9.87	6280	0.77	0.01	0.2	1.6
G284477		15.25	3.67	0.18	0.2	<0.01	0.074	0.42	21.9	4.8	6.85	2160	17.00	0.03	3.3	21.7
G284478		7.75	0.94	0.10	0.1	<0.01	0.187	0.06	5.7	3.4	4.94	12300	1.11	0.01	0.1	4.8
G284479		45.7	6.48	0.46	0.8	<0.01	0.270	0.53	10.0	3.0	0.26	2430	1.59	0.02	1.4	20.9
G284480		49.3	11.85	0.43	1.2	<0.01	0.238	0.46	12.7	6.0	0.25	2410	2.82	0.03	4.3	31.4
G284481		>50	1.69	0.44	0.1	<0.01	0.175	0.06	6.3	0.5	0.07	1120	2.76	0.01	0.5	31.2
G284482		>50	1.83	0.51	0.1	<0.01	0.148	0.06	12.8	0.6	0.12	1130	2.17	0.01	0.7	28.0
G284483		0.57	0.27	<0.05	<0.1	<0.01	0.005	0.05	0.6	1.4	12.85	212	0.05	0.01	0.3	<0.2
G284484		0.53	1.24	<0.05	0.2	<0.01	0.007	0.27	6.9	1.6	0.27	197	<0.05	0.01	2.7	<0.2
G284485		5.52	8.12	0.11	0.3	<0.01	0.021	1.70	26.8	16.8	0.78	347	0.26	0.20	15.6	63.9
G284486		0.80	1.58	<0.05	0.3	<0.01	0.014	0.31	7.4	1.4	0.29	399	1.76	0.02	3.4	3.9
G284487		5.67	24.9	0.17	1.4	<0.01	0.091	3.69	81.2	53.5	1.84	964	0.16	1.20	66.2	49.2
G284488		7.48	22.8	0.16	2.2	<0.01	0.106	3.10	51.8	60.2	4.50	1340	0.24	1.57	60.3	160.5
G284489		6.85	30.8	0.19	1.3	<0.01	0.095	5.17	96.5	61.6	1.67	449	0.21	1.06	109.0	11.6
G284490		8.01	33.2	0.22	1.2	<0.01	0.086	5.20	102.5	64.9	1.84	405	0.18	0.93	126.5	54.3

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09109503

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284455		1180	4.8	136.5	0.003	8.74	4.75	6.9	2	10.3	56.7	0.84	0.16	2.0	0.444	1.09
G284456		180	18.7	14.8	0.004	>10.0	29.6	2.2	5	1.0	80.6	0.16	0.31	0.4	0.067	0.30
G284457		1390	46.0	135.0	0.029	4.12	17.90	9.0	2	9.2	10.6	0.43	0.15	2.1	0.303	3.80
G284458		300	1.6	2.4	<0.002	0.10	0.20	0.4	2	0.2	61.5	<0.05	<0.05	<0.2	0.010	0.03
G284459		30	3.8	0.8	<0.002	0.18	0.18	0.2	2	<0.2	182.0	<0.05	<0.05	<0.2	<0.005	0.04
G284460		440	8.8	16.3	0.006	8.82	13.15	1.1	2	1.2	92.2	0.12	0.17	0.7	0.056	0.58
G284461		420	11.7	18.3	0.009	4.79	6.95	1.7	2	1.3	81.2	0.24	0.12	1.2	0.082	0.48
G284462		220	95.5	11.5	<0.002	>10.0	8.67	0.9	2	0.9	108.0	0.09	0.23	0.2	0.032	0.14
G284463		600	58.4	19.8	<0.002	>10.0	12.75	1.4	2	1.6	92.8	0.20	0.17	0.6	0.078	0.18
G284464		130	21.6	2.5	<0.002	>10.0	13.45	0.6	4	0.3	98.5	<0.05	0.28	<0.2	<0.005	0.04
G284465		170	8.1	5.3	<0.002	>10.0	19.70	0.8	4	0.3	94.0	0.05	0.25	0.2	0.018	0.07
G284466		220	4.5	5.0	<0.002	>10.0	19.30	0.6	3	0.3	95.7	<0.05	0.17	<0.2	0.011	0.05
G284467		120	14.8	7.6	0.005	>10.0	23.0	0.5	5	1.2	91.3	<0.05	1.04	0.5	0.008	0.09
G284468		520	6.2	21.9	0.002	9.96	9.70	1.9	3	1.7	95.3	0.26	0.21	0.3	0.137	0.16
G284469		740	4.5	21.6	0.005	4.47	2.70	1.3	3	1.4	86.6	0.29	0.06	0.6	0.109	0.20
G284470		740	5.2	19.5	0.005	4.84	2.86	1.3	2	1.3	76.4	0.27	0.05	0.7	0.115	0.23
G284471		930	5.8	32.9	0.005	5.19	3.29	3.7	2	3.9	154.0	0.52	0.05	1.4	0.265	0.58
G284472		380	3.5	18.7	<0.002	1.31	2.43	1.6	3	1.7	177.0	0.09	0.12	0.2	0.047	0.21
G284473		490	20.7	20.2	<0.002	0.14	2.53	1.7	3	1.8	155.5	0.10	0.18	0.3	0.047	0.23
G284474		140	33.3	1.7	<0.002	0.09	0.94	0.7	3	0.7	111.0	<0.05	0.05	<0.2	<0.005	0.08
G284475		90	45.8	5.6	<0.002	0.15	1.34	0.9	3	0.8	66.0	<0.05	0.05	0.3	0.024	0.18
G284476		90	28.8	1.9	<0.002	0.03	0.67	0.4	3	0.2	58.7	<0.05	<0.05	<0.2	<0.005	0.17
G284477		260	13.5	32.7	0.016	>10.0	4.62	2.0	7	3.2	89.4	0.19	0.23	0.8	0.093	0.27
G284478		130	51.1	3.3	<0.002	0.12	3.17	0.7	3	0.7	73.1	<0.05	0.10	0.2	<0.005	0.10
G284479		650	51.8	19.9	<0.002	0.16	36.9	3.9	3	2.9	19.1	0.08	0.25	1.6	0.048	0.79
G284480		630	94.5	25.7	0.008	0.13	14.95	4.5	5	6.0	24.8	0.24	0.30	2.6	0.083	0.60
G284481		250	47.0	1.9	<0.002	0.07	12.80	1.7	3	0.4	13.7	<0.05	0.10	0.7	0.010	0.18
G284482		340	20.0	2.0	<0.002	0.09	12.10	1.5	3	0.2	18.4	<0.05	0.15	0.7	0.015	0.19
G284483		300	1.3	1.7	<0.002	0.02	0.05	0.4	3	<0.2	47.8	<0.05	<0.05	<0.2	<0.005	<0.02
G284484		180	1.9	8.6	<0.002	0.04	0.10	1.3	3	0.2	144.5	0.15	<0.05	0.5	0.060	0.02
G284485		1300	3.3	108.5	<0.002	2.72	0.21	6.1	3	5.0	166.5	0.91	0.07	1.6	0.440	0.56
G284486		80	6.7	11.9	<0.002	0.62	0.18	2.1	3	0.5	481	0.18	<0.05	0.6	0.104	0.05
G284487		1540	5.6	227	<0.002	0.06	0.23	19.5	2	8.8	372	3.73	<0.05	16.6	1.055	1.48
G284488		2640	2.7	470	<0.002	0.19	0.18	24.9	2	33.0	464	3.50	0.08	6.3	1.345	3.83
G284489		5290	4.8	372	<0.002	0.58	0.21	7.8	3	16.8	235	5.71	0.06	12.2	1.245	2.42
G284490		4590	6.4	410	<0.002	1.68	0.34	14.4	2	37.5	278	6.70	0.14	13.1	1.375	3.22

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Project: RAU

Finalized Date: 17-OCT-2009
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CERTIFICATE OF ANALYSIS VA09109503

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
G284455		1.1	99	19.1	13.6	92	14.2
G284456		0.5	14	18.0	6.8	65	17.3
G284457		5.0	144	14.0	16.5	1360	54.1
G284458		0.7	2	0.3	1.2	20	1.0
G284459		0.3	<1	0.3	3.4	62	0.6
G284460		1.3	20	2.2	7.5	133	12.4
G284461		3.6	20	98.8	6.2	72	23.2
G284462		0.3	12	15.5	7.0	478	7.1
G284463		0.7	21	40.0	6.5	240	16.9
G284464		0.3	7	62.9	5.8	156	2.4
G284465		0.5	10	23.3	5.8	115	5.7
G284466		0.3	8	77.8	5.7	13	4.6
G284467		0.9	5	208	7.4	131	2.9
G284468		1.0	24	63.8	6.6	66	31.1
G284469		4.4	34	4.0	6.4	41	29.9
G284470		3.7	36	3.8	6.2	108	29.2
G284471		2.3	57	94.0	11.1	235	40.0
G284472		0.4	17	26.3	17.8	34	8.3
G284473		0.7	22	3.8	20.1	82	11.5
G284474		0.4	4	26.8	15.7	185	1.9
G284475		0.6	6	1.4	8.2	348	3.4
G284476		0.3	2	0.7	10.5	183	1.4
G284477		0.5	17	61.6	7.6	33	8.5
G284478		1.0	4	16.6	26.1	435	1.5
G284479		6.1	39	60.8	16.3	838	31.9
G284480		5.7	53	610	20.8	880	48.9
G284481		3.9	7	24.4	8.1	973	6.5
G284482		4.5	11	7.8	14.6	1300	6.0
G284483		0.8	1	0.1	1.0	15	<0.5
G284484		0.2	5	0.8	6.3	10	8.1
G284485		0.2	58	1.0	12.9	13	10.6
G284486		0.3	16	0.5	6.6	40	13.7
G284487		1.1	168	2.0	35.7	59	51.1
G284488		1.3	237	4.5	27.5	95	78.7
G284489		1.2	106	3.7	36.4	65	60.4
G284490		1.2	152	9.2	36.7	51	45.2

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Project: RAU

CERTIFICATE OF ANALYSIS VA09109503

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

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Finalized Date: 15-OCT-2009
Account: RCM

CERTIFICATE VA09107971

Project: RAU

P.O. No.: Batch 74

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09107971

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
G285027		2.86	0.11	1.66	1.61	>10000	420	0.45	195.0	11.35	0.06	10.75	1.0	13	11.60	8.2
G285028		7.80	0.98	0.16	0.01	>10000	10	<0.05	566	0.94	<0.02	8.61	0.2	<1	0.38	4.9
G285029		3.76	<0.01	0.01	0.15	829	20	0.10	1.85	19.30	0.07	2.29	1.0	1	0.25	2.7
G285030		8.64	0.62	0.14	0.02	>10000	10	<0.05	1040	6.74	0.02	40.5	0.3	<1	0.22	5.3
G285031		13.14	1.54	0.10	0.40	>10000	120	0.13	342	13.95	0.04	61.1	0.7	2	2.10	4.1
G285032		11.42	0.39	0.18	0.54	9320	50	0.16	353	11.80	0.05	52.9	1.3	4	4.88	6.0
G285033		13.80	1.67	0.08	0.11	>10000	10	<0.05	532	13.50	0.04	85.6	0.6	<1	0.78	2.6
G285034		6.14	1.93	0.07	0.10	>10000	10	0.05	531	13.65	0.04	72.4	0.6	<1	0.71	2.7
G285035		14.00	4.00	0.07	0.06	>10000	10	0.06	260	12.55	0.08	114.0	0.5	<1	0.34	2.5
G285036		13.10	1.46	0.09	0.02	>10000	10	0.05	337	13.00	0.04	74.0	0.4	<1	0.14	3.4
G285037		0.28	5.50	0.43	0.12	>10000	30	<0.05	476	8.19	0.04	38.2	1.8	13	0.77	44.2
G285038		10.38	0.41	0.11	0.12	9750	20	<0.05	461	12.60	0.04	63.0	0.8	1	0.83	3.6
G285039		9.44	0.23	0.12	0.02	1940	10	<0.05	2130	15.05	0.03	81.9	0.5	<1	0.18	2.8
G285040		6.48	0.04	0.03	0.04	509	10	0.09	38.3	16.75	0.03	7.94	0.6	<1	0.22	1.7
G285041		7.44	0.83	0.11	0.37	2040	60	0.15	334	15.20	0.06	74.3	1.4	3	2.82	2.9
G285042		7.90	0.24	0.20	0.39	3080	10	0.12	153.5	14.45	0.87	195.0	4.8	3	2.08	3.7
G285043		6.94	0.14	0.89	6.99	570	1160	1.71	12.85	9.22	10.95	91.3	24.7	41	29.9	7.2
G285044		8.12	0.06	0.02	6.82	102	970	1.67	22.4	10.05	0.02	83.4	39.5	41	34.7	14.5
G285045		6.80	2.36	0.05	1.10	7340	90	0.41	47.3	14.35	0.06	9.79	8.1	9	6.88	4.3
G285046		11.32	0.12	0.02	7.39	2690	900	2.00	21.2	7.38	0.17	86.5	39.0	49	16.15	190.0
G285047		12.76	0.16	<0.01	7.45	103	1270	2.17	10.50	10.50	0.04	123.5	56.3	52	34.3	83.9
G285048		10.48	0.73	<0.01	8.49	44.2	1540	2.58	28.1	4.84	<0.02	141.5	41.2	68	17.10	71.9
G285049		7.20	0.09	0.05	6.93	152.5	90	1.86	57.1	5.00	<0.02	82.0	74.6	50	21.3	71.7
G285050		11.06	0.07	0.08	0.04	4020	10	<0.05	141.0	18.50	0.05	5.79	2.5	<1	0.26	4.8
G285051		13.56	0.33	0.03	0.59	6340	120	0.23	53.1	17.95	0.05	7.77	2.3	5	3.54	2.7
G285052		12.36	1.63	0.08	0.28	>10000	60	0.11	188.0	15.15	0.03	7.29	2.6	2	0.59	3.5
G285053		8.24	1.03	0.10	0.19	948	50	0.08	215	14.95	0.04	4.39	3.3	2	0.53	4.0
G285054		9.50	2.49	0.11	0.37	3260	60	0.12	343	9.31	0.03	6.51	2.8	2	2.28	6.9
G285055		3.82	<0.01	0.01	0.05	9	20	<0.05	1.10	20.1	0.05	1.26	0.8	<1	0.14	1.0
G285056		7.06	0.16	0.07	0.27	26	30	0.19	46.5	18.60	0.05	30.0	0.7	1	2.39	61.6
G285057		10.04	0.22	0.09	0.89	57	100	0.45	195.0	17.60	0.06	12.05	4.2	5	11.05	59.9
G285058		0.28	0.49	0.92	0.80	6540	120	0.34	99.0	13.30	0.14	36.0	6.1	14	2.15	36.5
G285059		11.02	0.23	0.16	0.79	775	50	0.38	75.1	19.85	0.79	26.8	1.9	5	10.20	25.3
G285060		7.04	0.01	0.41	0.13	156	10	0.08	7.20	20.1	1.70	8.84	1.0	2	0.58	3.5
G285061		8.36	0.13	3.11	0.42	92	30	0.22	65.3	19.85	0.70	9.27	2.2	3	1.73	4.1
G285062		10.04	0.52	0.60	0.04	135	10	0.05	17.00	19.70	1.86	11.95	2.1	<1	0.44	6.3

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

Project: RAU

Finalized Date: 15-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107971

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G285027		5.76	8.29	0.10	0.7	<0.01	0.021	1.25	5.5	11.1	8.53	960	0.82	0.04	4.5	7.0
G285028		34.6	0.34	0.36	<0.1	<1	0.104	0.02	5.5	0.4	1.04	115	0.11	<0.01	0.3	1.0
G285029		0.47	0.45	0.06	<0.1	<0.01	<0.005	0.06	1.1	1.8	13.05	203	0.15	0.01	0.7	<0.2
G285030		29.2	0.47	0.32	<0.1	<1	0.059	0.01	27.6	0.8	4.03	622	0.07	<0.01	0.2	<0.2
G285031		13.25	2.46	0.19	0.2	<0.1	0.045	0.29	37.6	3.9	7.64	1940	0.14	0.01	1.2	1.0
G285032		14.10	3.01	0.20	0.3	<0.01	0.039	0.40	32.3	4.9	6.95	1920	0.17	0.01	3.1	5.9
G285033		13.45	1.28	0.21	0.1	<0.01	0.054	0.06	53.5	2.0	7.57	2420	0.08	0.01	0.3	<0.2
G285034		12.85	1.18	0.20	0.1	<0.1	0.053	0.06	45.1	2.0	7.72	2490	0.05	0.01	0.3	<0.2
G285035		15.10	1.07	0.25	0.1	<0.1	0.056	0.02	73.6	1.7	7.03	2320	0.08	0.01	0.3	<0.2
G285036		14.70	0.66	0.22	<0.1	<0.1	0.050	0.01	48.1	1.4	7.37	2060	0.09	0.01	0.1	<0.2
G285037		21.8	1.19	0.28	0.1	<1	0.069	0.07	24.3	1.8	4.61	1380	11.30	0.01	1.3	12.6
G285038		13.75	1.22	0.21	0.1	<0.1	0.042	0.07	39.5	1.8	7.49	1940	0.24	0.01	0.5	0.2
G285039		8.31	0.63	0.17	<0.1	<0.01	0.031	0.01	53.7	2.1	9.76	1300	0.08	0.01	0.1	<0.2
G285040		3.92	0.37	0.06	<0.1	<0.01	0.028	0.01	4.1	2.4	11.15	1310	0.13	0.01	0.1	<0.2
G285041		8.66	2.42	0.16	0.2	<0.01	0.055	0.26	45.9	3.8	8.81	2980	0.08	0.01	1.2	1.2
G285042		10.10	3.46	0.27	0.3	<0.01	0.033	0.16	124.5	3.1	8.31	2650	0.11	0.02	1.3	7.9
G285043		6.85	32.5	0.22	1.1	0.01	0.063	4.15	45.3	34.1	3.12	2140	0.50	0.09	26.3	107.0
G285044		5.20	29.5	0.21	1.5	<0.01	0.054	4.54	41.2	41.7	3.21	1180	0.17	0.11	25.5	115.5
G285045		10.10	6.55	0.14	0.5	<0.01	0.043	0.56	4.6	6.7	8.21	2180	0.21	0.04	4.5	16.4
G285046		6.84	29.8	0.22	1.4	<0.01	0.078	3.85	42.8	26.9	2.67	1300	0.22	0.08	30.9	113.0
G285047		4.96	29.7	0.27	1.7	<0.01	0.100	4.17	60.8	34.1	2.45	1760	0.28	0.07	35.3	135.0
G285048		4.37	34.5	0.31	1.6	<0.01	0.095	4.70	71.8	37.0	1.91	920	0.38	0.10	51.5	98.4
G285049		8.31	31.0	0.24	1.3	<0.01	0.059	4.34	38.3	31.2	2.11	567	0.23	0.10	35.4	142.5
G285050		8.99	0.44	0.11	<0.1	<0.1	0.048	0.02	2.1	2.0	9.95	3650	0.09	<0.01	0.2	0.4
G285051		8.90	4.00	0.12	0.3	<0.01	0.055	0.37	3.4	6.9	9.58	3640	0.11	<0.01	2.0	5.9
G285052		15.40	2.41	0.18	0.2	<0.1	0.068	0.14	2.8	3.6	8.14	3100	0.11	<0.01	1.1	6.3
G285053		13.75	1.65	0.15	0.1	<0.01	0.045	0.10	1.6	2.6	8.21	3060	0.09	<0.01	0.6	9.4
G285054		22.8	2.90	0.27	0.2	<0.1	0.062	0.23	2.4	4.1	4.98	2230	0.10	<0.01	1.9	12.9
G285055		0.42	0.21	0.10	<0.1	<0.01	<0.005	0.02	0.6	0.9	12.70	188	0.07	<0.01	0.2	<0.2
G285056		5.14	2.33	0.10	0.1	<0.01	0.062	0.19	14.8	4.7	9.77	7470	0.91	<0.01	1.3	0.4
G285057		6.99	6.24	0.11	0.4	<0.01	0.063	0.75	5.1	9.2	8.96	5610	9.88	<0.01	3.0	11.8
G285058		14.90	4.05	0.22	0.2	<0.1	0.072	0.40	20.6	4.8	6.96	2130	18.20	<0.01	2.5	23.4
G285059		5.44	4.83	0.11	0.4	<0.01	0.069	0.65	13.6	8.4	9.86	5820	0.23	<0.01	3.5	3.4
G285060		3.58	1.13	0.07	0.1	<0.01	0.086	0.03	3.8	3.1	11.70	4630	0.17	<0.01	0.6	<0.2
G285061		4.17	2.79	0.08	0.3	<0.01	0.053	0.15	3.6	3.1	11.25	4580	0.10	0.01	1.7	2.8
G285062		4.79	0.72	0.09	0.1	<0.01	0.120	0.02	4.6	2.4	10.90	6210	0.07	<0.01	0.3	3.7

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G285027		240	4.2	92.1	0.002	0.25	4.95	1.6	4	1.1	57.6	0.24	0.35	1.3	0.069	0.82
G285028		<10	4.2	3.5	0.004	>10.0	33.9	0.2	29	0.2	8.3	<0.05	5.40	<0.2	<0.005	0.07
G285029		300	1.9	2.4	<0.002	0.08	0.20	0.5	2	<0.2	52.4	0.05	<0.05	0.2	0.006	<0.02
G285030		20	4.7	0.7	<0.002	>10.0	34.4	0.4	18	0.2	44.0	<0.05	3.59	<0.2	<0.005	0.04
G285031		150	3.5	22.8	<0.002	>10.0	13.55	0.7	5	0.5	91.7	0.07	0.41	1.0	0.016	0.15
G285032		310	3.9	51.3	<0.002	>10.0	6.34	0.9	5	1.0	80.9	0.18	0.25	1.0	0.043	0.35
G285033		150	3.5	9.7	0.002	>10.0	9.71	0.5	4	0.2	103.5	<0.05	0.33	0.6	0.007	0.10
G285034		140	3.5	8.2	<0.002	>10.0	10.70	0.5	4	0.3	108.0	<0.05	0.37	0.6	0.006	0.08
G285035		210	3.0	2.6	0.002	>10.0	8.08	0.4	5	0.2	103.0	<0.05	0.36	0.4	<0.005	0.04
G285036		80	3.1	0.7	0.002	>10.0	6.88	0.4	5	0.2	98.2	<0.05	0.37	<0.2	<0.005	0.03
G285037		70	6.2	8.2	0.003	>10.0	25.3	0.5	9	2.2	63.6	0.08	1.50	0.4	0.008	0.16
G285038		80	3.4	7.6	0.002	>10.0	6.30	0.4	5	0.3	96.6	<0.05	0.31	0.2	0.008	0.08
G285039		70	7.0	0.9	0.003	9.16	26.5	0.4	6	0.2	79.3	<0.05	0.93	<0.2	<0.005	0.05
G285040		60	1.9	1.3	<0.002	2.96	1.03	0.5	2	<0.2	68.1	<0.05	0.05	<0.2	<0.005	0.02
G285041		240	3.7	26.0	0.002	7.81	5.52	0.9	3	0.5	105.5	0.07	0.17	0.4	0.031	0.22
G285042		440	41.8	26.0	0.002	>10.0	3.55	1.1	5	0.6	101.5	0.07	0.19	0.5	0.032	0.36
G285043		2030	506	273	0.003	1.63	11.20	14.3	2	8.9	73.2	1.55	<0.05	4.4	0.844	2.61
G285044		2150	1.8	333	<0.002	3.34	0.43	14.5	2	8.5	62.8	1.54	0.06	3.9	0.890	2.41
G285045		760	3.7	84.9	<0.002	>10.0	2.26	2.5	4	1.8	88.0	0.25	0.12	0.9	0.195	0.56
G285046		1240	10.0	221	<0.002	4.23	2.20	15.0	2	10.3	52.1	1.83	0.10	4.2	1.060	2.19
G285047		1210	3.0	257	<0.002	0.57	0.54	16.6	2	9.9	73.2	2.14	<0.05	5.4	1.120	2.14
G285048		760	1.0	206	<0.002	1.88	0.41	19.4	3	11.0	35.8	3.02	0.07	6.2	1.665	1.12
G285049		1260	1.9	237	<0.002	6.61	0.84	16.7	3	9.2	47.0	2.09	0.22	4.9	1.140	1.75
G285050		60	2.8	1.8	<0.002	6.93	2.80	0.5	2	0.2	112.5	<0.05	0.08	<0.2	<0.005	0.04
G285051		440	3.2	27.2	<0.002	7.87	2.08	1.5	3	0.9	107.0	0.12	0.08	0.3	0.051	0.25
G285052		630	3.5	6.7	<0.002	>10.0	5.06	0.8	5	0.6	104.5	0.06	0.17	<0.2	0.029	0.07
G285053		300	4.0	4.7	<0.002	>10.0	3.86	0.9	4	0.4	98.5	<0.05	0.12	<0.2	0.013	0.05
G285054		450	4.5	13.4	<0.002	>10.0	4.69	1.5	13	1.0	64.2	0.10	0.22	<0.2	0.050	0.17
G285055		210	1.1	1.0	<0.002	0.06	0.07	0.3	2	<0.2	45.5	<0.05	<0.05	<0.2	<0.005	<0.02
G285056		460	3.9	18.0	0.003	0.52	0.58	1.3	2	2.6	130.0	0.07	0.06	0.2	0.037	0.16
G285057		570	4.0	64.2	0.002	3.79	0.96	2.5	2	2.6	118.0	0.16	0.12	0.5	0.097	0.59
G285058		240	14.3	33.9	0.017	>10.0	4.86	2.1	7	3.3	94.4	0.14	0.22	0.8	0.065	0.28
G285059		500	27.5	103.5	0.002	1.23	0.91	2.1	2	1.9	123.5	0.21	0.09	0.6	0.096	0.65
G285060		120	52.6	4.2	<0.002	0.81	0.79	0.6	2	0.9	126.5	<0.05	<0.05	<0.2	0.012	0.06
G285061		330	59.6	12.6	0.002	2.35	2.63	1.6	2	1.4	123.0	0.10	0.09	0.2	0.038	0.13
G285062		110	46.6	1.4	0.003	2.21	1.16	1.0	2	1.8	157.5	<0.05	<0.05	<0.2	<0.005	0.08

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CERTIFICATE OF ANALYSIS VA09107971

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
G285027		0.8	18	470	5.4	21	28.4
G285028		0.1	2	660	0.9	<2	<0.5
G285029		0.5	3	3.2	1.2	15	0.5
G285030		0.5	4	212	3.6	6	<0.5
G285031		0.6	9	28.2	7.1	13	8.1
G285032		0.7	14	31.2	7.6	14	11.7
G285033		0.8	7	287	6.8	12	3.0
G285034		1.0	7	52.3	6.8	14	2.8
G285035		1.4	5	156.5	5.9	21	2.2
G285036		0.9	5	221	5.7	11	0.9
G285037		0.5	7	39.3	4.6	10	5.4
G285038		1.0	7	287	6.1	12	3.8
G285039		1.0	5	367	4.8	9	0.7
G285040		0.3	6	19.0	5.1	12	1.1
G285041		1.0	15	122.0	9.2	21	8.6
G285042		4.0	17	341	8.4	216	11.4
G285043		1.5	145	23.5	17.0	2910	45.9
G285044		1.3	145	14.1	15.3	32	62.6
G285045		1.3	31	70.7	8.8	26	21.5
G285046		1.4	185	16.0	13.7	81	56.0
G285047		1.0	198	10.0	16.8	46	73.1
G285048		1.6	223	14.2	13.8	17	67.4
G285049		1.4	175	14.1	12.2	15	56.2
G285050		0.1	3	148.5	7.0	14	1.0
G285051		0.5	18	70.9	8.1	18	13.0
G285052		0.3	13	30.3	7.9	13	7.1
G285053		0.2	16	10.2	7.7	13	5.9
G285054		0.3	19	63.6	7.2	9	9.4
G285055		0.8	2	0.2	0.8	13	<0.5
G285056		0.5	27	254	14.5	18	5.3
G285057		0.6	44	77.7	13.7	27	17.9
G285058		0.4	16	67.1	7.6	34	8.4
G285059		0.8	32	82.3	16.1	200	15.7
G285060		0.9	7	34.8	8.7	431	5.2
G285061		5.2	17	137.5	13.2	163	13.7
G285062		2.9	6	401	11.2	473	3.0

***** See Appendix Page for comments regarding this certificate *****

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ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: RAU

Finalized Date: 15-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107971

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE VA09107970

Project: RAU

P.O. No.: Batch 71

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-OCT-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107970

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	Au-AA26 Au Check ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
G284419		6.08	1.50		0.22	0.25	>10000	20	0.07	281	16.30	0.19	37.5	0.7	1	1.04
G284420		6.46	0.08		0.10	0.07	3910	<10	<0.05	339	16.20	0.11	36.7	0.6	<1	0.24
G284421		6.64	0.21		0.10	0.06	>10000	10	<0.05	411	16.75	0.09	22.8	0.5	<1	0.32
G284422		3.70	<0.01		<0.01	0.06	40	10	<0.05	1.92	19.20	0.07	1.55	0.9	<1	0.11
G284423		6.80	2.82		0.16	0.08	>10000	10	<0.05	173.5	15.10	0.09	20.3	0.7	<1	0.41
G284424		10.08	19.35		0.54	0.03	>10000	10	<0.05	379	3.65	0.07	4.37	0.7	<1	0.09
G284425		8.72	9.51		0.14	0.09	>10000	20	<0.05	282	5.07	0.04	3.76	0.9	<1	0.20
G284426		7.20	2.66		0.05	0.04	>10000	10	<0.05	256	12.85	0.06	12.00	0.5	<1	0.15
G284427		9.34	12.75		0.09	0.04	>10000	10	<0.05	228	5.47	0.04	2.53	0.5	<1	0.08
G284428		8.00	6.30		0.09	0.05	>10000	10	<0.05	291	10.10	0.06	6.67	0.8	<1	0.16
G284429		10.60	4.19		0.08	0.36	>10000	30	0.13	156.5	9.18	0.13	10.15	4.6	2	0.90
G284430		2.10	11.45		25.4	0.22	>10000	160	0.05	907	4.95	0.20	22.6	0.9	<1	1.11
G284431		1.84	2.13		5.26	0.24	>10000	30	0.17	352	1.39	0.35	14.50	1.3	<1	0.90
G284432		5.12	2.64		3.29	0.20	>10000	40	0.10	459	0.90	0.70	16.15	1.5	<1	1.49
G284433		4.36	7.62		2.05	0.06	>10000	10	<0.05	326	7.77	0.43	10.75	0.9	<1	0.24
G284434		0.28	5.67		0.25	0.12	>10000	30	<0.05	483	8.79	0.04	42.5	1.7	13	0.73
G284435		3.36	9.24		1.98	0.12	>10000	90	<0.05	335	0.63	0.55	12.65	1.8	<1	2.54
G284436		6.16	10.00		2.70	0.27	>10000	640	<0.05	314	1.33	0.63	15.35	2.5	<1	10.75
G284437		3.88	0.02		<0.01	0.10	658	30	0.09	2.86	19.80	0.05	1.89	0.9	1	0.28
G284438		5.92	3.79		0.92	0.19	>10000	1510	<0.05	229	1.32	0.26	10.45	2.4	<1	0.26
G284439		5.66	3.21		0.34	0.22	>10000	1370	0.07	761	1.29	0.16	12.80	1.2	<1	0.29
G284440		1.42	1.35		0.79	0.31	>10000	1720	0.14	414	1.76	0.36	52.8	2.4	3	0.31
G284441		1.98	1.65	1.77	0.66	0.48	>10000	1130	0.15	451	1.29	0.26	28.8	2.0	4	0.37
G284442		0.86	1.56		1.21	0.39	>10000	950	0.10	550	1.20	0.25	25.5	1.9	1	0.30
G284443		5.34	1.09		0.73	0.38	>10000	1510	0.18	522	1.94	0.49	29.5	4.0	<1	0.35
G284444		5.66	3.44		0.30	0.42	>10000	520	0.14	465	2.71	0.60	17.35	2.6	<1	0.36
G284445		6.42	2.63		1.83	0.33	>10000	1380	0.12	504	1.52	1.98	21.8	2.3	1	0.28
G284446		3.76	0.40		7.00	0.42	>10000	960	0.17	294	1.49	9.27	17.80	1.9	<1	0.75
G284447		3.70	1.55		2.09	0.35	>10000	1410	0.17	226	2.72	3.03	26.0	2.1	<1	0.38
G284448		4.38	0.96		5.55	0.21	>10000	920	0.14	127.0	10.25	5.67	20.8	1.8	<1	0.13
G284449		0.28	1.57		1.48	0.10	>10000	30	<0.05	331	11.25	0.77	56.8	1.5	6	0.56
G284450		2.16	0.11		0.35	0.10	6050	180	0.09	6.19	19.60	0.78	5.99	0.5	1	0.12
G284451		4.02	1.09		0.65	0.52	>10000	530	0.16	95.8	17.75	0.54	10.20	1.1	3	0.52
G284452		7.30	0.77		0.70	0.17	>10000	250	0.12	62.0	18.05	0.84	9.26	1.0	7	0.32
G284453		0.58	0.26		1.04	0.13	>10000	410	0.14	13.85	23.6	3.58	8.59	1.0	1	0.15
G284454		2.06	6.59		2.21	0.34	>10000	700	0.12	725	2.03	2.11	18.65	1.3	<1	0.38

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107970

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1
G284419		6.5	9.78	1.57	0.16	0.2	<0.01	0.091	0.12	20.3	2.4	8.76	3910	0.94	0.01	0.7
G284420		5.8	8.23	0.52	0.13	0.1	<0.01	0.033	0.01	20.0	1.4	9.18	3080	0.06	0.01	0.3
G284421		5.2	8.85	0.54	0.13	0.1	<0.01	0.081	0.03	11.3	2.0	9.06	4090	0.35	0.01	0.3
G284422		2.9	0.44	0.17	0.09	<0.1	<0.01	<0.005	0.03	0.7	0.9	12.55	208	0.06	0.01	0.2
G284423		4.0	11.90	0.77	0.19	0.1	<0.01	0.098	0.03	9.9	2.3	8.11	3990	0.67	0.01	0.4
G284424		4.6	34.8	0.20	0.43	<0.1	<0.01	0.120	0.01	2.0	0.4	1.89	602	0.06	<0.01	0.4
G284425		7.3	30.5	0.53	0.33	0.1	<0.01	0.077	0.03	1.5	0.6	2.71	726	0.19	<0.01	0.6
G284426		4.3	14.05	0.34	0.18	<0.1	<0.01	0.118	0.02	5.0	1.2	7.59	2330	0.05	<0.01	0.2
G284427		5.1	29.9	0.32	0.32	<0.1	<0.01	0.107	0.02	0.9	0.5	2.81	995	0.15	<0.01	0.4
G284428		6.3	20.8	0.36	0.22	<0.1	<0.01	0.107	0.02	2.8	1.1	5.46	1720	0.06	<0.01	0.3
G284429		4.4	21.1	1.70	0.20	0.2	<0.01	0.077	0.13	4.7	2.0	4.97	2130	0.18	0.01	1.5
G284430		5.2	28.2	1.57	0.28	0.2	<0.01	0.786	0.33	12.0	1.4	1.43	3390	0.38	0.01	0.6
G284431		7.2	42.6	1.42	0.39	0.1	<0.01	0.330	0.22	6.8	0.6	0.14	1160	0.40	<0.01	0.4
G284432		18.1	42.2	1.45	0.49	0.1	<0.01	0.280	0.24	8.2	0.8	0.08	5260	0.65	<0.01	0.3
G284433		6.7	25.6	0.42	0.30	<0.1	<0.01	0.179	0.04	5.2	0.8	4.01	1910	0.14	<0.01	0.3
G284434		40.6	24.0	1.04	0.29	0.1	<0.01	0.053	0.07	27.2	1.3	4.79	1480	11.65	<0.01	1.3
G284435		5.3	40.3	0.75	0.37	0.1	<0.01	0.176	0.32	5.9	0.8	0.07	1160	0.80	<0.01	0.3
G284436		6.7	44.9	1.95	0.42	0.2	<0.01	0.207	0.54	7.9	3.8	0.13	2680	2.49	0.01	0.4
G284437		3.2	0.73	0.32	0.07	0.1	<0.01	<0.005	0.05	0.9	1.3	12.75	246	0.24	0.01	0.4
G284438		5.6	>50	1.73	0.40	0.1	0.01	0.206	0.11	3.6	0.8	0.16	10900	3.43	0.01	0.4
G284439		6.7	47.9	1.94	0.44	0.2	<0.01	0.212	0.18	4.8	1.7	0.15	7500	5.50	0.01	0.4
G284440		7.4	40.3	2.89	0.42	0.3	<0.01	0.378	0.11	23.5	1.0	0.18	14350	6.91	0.03	0.5
G284441		4.9	47.5	4.21	0.43	0.5	<0.01	0.317	0.18	10.0	1.7	0.22	12950	4.18	0.03	0.7
G284442		4.5	49.3	3.47	0.43	0.5	<0.01	0.283	0.15	8.8	1.4	0.20	11050	4.32	0.02	0.8
G284443		4.6	47.4	3.80	0.42	0.3	<0.01	0.311	0.16	10.2	1.1	0.20	18450	3.74	0.02	0.5
G284444		6.1	47.5	3.32	0.46	0.2	0.01	0.287	0.16	7.0	0.9	1.15	10000	2.15	0.01	0.5
G284445		4.8	47.4	3.39	0.41	0.2	0.01	0.292	0.15	8.6	0.9	0.18	15500	2.46	0.01	0.4
G284446		12.0	48.6	2.72	0.44	0.2	0.01	0.337	0.12	8.2	0.7	0.07	8810	1.41	0.01	0.4
G284447		16.2	40.4	3.30	0.38	0.3	0.01	0.350	0.16	9.8	0.9	0.18	13850	2.52	0.01	0.5
G284448		7.3	31.6	1.50	0.30	0.1	0.01	0.272	0.06	8.5	0.7	1.55	8590	1.41	0.01	0.3
G284449		15.8	17.30	0.96	0.23	0.1	<0.01	0.073	0.06	36.8	1.5	7.04	2290	5.23	0.01	0.4
G284450		1.6	4.80	0.67	0.09	0.1	<0.01	0.034	0.04	3.5	1.4	9.65	2390	0.25	0.01	0.3
G284451		2.8	17.05	3.55	0.19	0.3	<0.01	0.101	0.22	4.0	1.9	3.35	4970	0.88	0.01	1.1
G284452		3.2	8.76	1.45	0.16	0.1	<0.01	0.132	0.08	4.9	2.2	8.63	3060	2.21	0.02	0.5
G284453		8.4	10.25	0.88	0.13	0.1	0.01	0.177	0.05	4.0	1.1	4.22	5900	0.89	0.01	0.3
G284454		6.2	45.0	2.61	0.42	0.2	<0.01	0.216	0.38	8.6	8.1	0.28	3650	1.45	0.01	0.6

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107970

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
G284419		2.1	260	5.4	17.7	<0.002	6.88	9.27	0.7	2	1.2	121.0	<0.05	0.24	0.3	0.016
G284420		2.0	110	5.4	1.8	<0.002	7.46	5.31	0.5	2	0.3	76.2	<0.05	0.22	0.2	<0.005
G284421		1.0	70	5.2	4.5	<0.002	5.79	11.00	0.4	2	0.4	118.5	<0.05	0.22	<0.2	<0.005
G284422		1.4	220	1.7	1.0	<0.002	0.04	0.10	0.3	1	<0.2	45.1	<0.05	<0.05	<0.2	<0.005
G284423		0.9	100	4.3	5.2	0.002	8.24	12.80	0.4	3	0.4	120.5	<0.05	0.21	<0.2	<0.005
G284424		1.7	50	5.4	0.9	<0.002	>10.0	68.0	0.1	14	0.2	24.4	<0.05	2.81	<0.2	<0.005
G284425		1.9	80	4.2	2.7	<0.002	>10.0	45.2	0.2	9	0.2	34.1	<0.05	1.60	0.2	0.006
G284426		<0.2	110	3.8	1.2	<0.002	>10.0	24.6	0.3	4	<0.2	95.0	<0.05	0.84	<0.2	<0.005
G284427		0.8	60	3.4	1.4	<0.002	>10.0	53.0	0.2	7	<0.2	32.8	<0.05	0.99	<0.2	0.005
G284428		1.3	70	4.7	1.7	<0.002	>10.0	33.6	0.2	6	0.2	67.8	<0.05	1.42	<0.2	<0.005
G284429		9.6	280	2.8	15.4	<0.002	>10.0	18.35	0.8	3	0.6	56.2	0.08	0.50	0.3	0.042
G284430		2.3	270	95.1	30.5	<0.002	1.05	55.6	0.8	6	4.7	172.5	<0.05	3.50	0.3	0.010
G284431		3.8	240	24.7	22.7	<0.002	0.47	22.1	0.7	4	5.4	75.9	<0.05	1.12	0.5	0.007
G284432		3.2	200	26.0	25.9	<0.002	0.68	30.2	1.4	4	1.0	135.0	<0.05	1.69	0.3	<0.005
G284433		1.4	70	17.0	3.4	<0.002	>10.0	25.8	0.3	6	0.8	65.2	<0.05	0.85	<0.2	<0.005
G284434		12.6	70	5.9	8.3	0.003	>10.0	23.8	0.4	8	2.1	60.3	0.07	1.40	0.4	0.008
G284435		5.6	110	13.9	33.9	0.002	3.23	39.3	0.5	7	0.9	105.0	<0.05	2.09	<0.2	<0.005
G284436		9.3	130	13.4	117.0	<0.002	0.86	29.9	0.7	3	1.6	177.5	<0.05	1.12	0.2	0.005
G284437		0.5	240	1.7	3.0	<0.002	0.07	0.43	0.4	1	0.4	55.3	<0.05	<0.05	0.3	0.005
G284438		10.4	200	8.1	7.8	<0.002	0.22	17.95	0.6	2	0.6	33.5	<0.05	1.35	<0.2	<0.005
G284439		8.4	230	9.5	9.1	0.003	0.33	30.8	0.8	3	0.5	54.1	<0.05	1.22	<0.2	0.007
G284440		12.1	640	15.4	9.0	0.005	0.41	16.10	2.6	3	1.3	47.3	<0.05	0.47	0.3	0.009
G284441		10.5	520	11.4	12.5	0.006	0.20	17.85	3.7	3	1.5	31.5	<0.05	1.01	0.3	0.015
G284442		10.5	700	11.7	10.8	0.005	0.22	19.00	2.9	3	1.3	26.6	0.05	0.90	0.2	0.017
G284443		27.0	1560	15.1	10.7	<0.002	0.15	20.5	2.8	3	1.3	48.2	<0.05	0.68	0.5	0.008
G284444		10.6	350	15.9	9.5	<0.002	0.09	19.05	1.5	2	1.2	25.8	<0.05	0.39	0.2	0.011
G284445		9.7	420	106.5	9.1	<0.002	0.15	19.35	1.6	3	1.8	44.1	<0.05	0.44	0.3	0.008
G284446		9.1	260	1030	8.3	<0.002	0.14	10.85	1.0	9	13.8	63.2	<0.05	0.23	0.2	0.007
G284447		7.8	600	172.5	12.3	0.002	0.13	14.65	1.9	2	13.2	57.3	<0.05	0.72	0.4	0.010
G284448		5.5	370	555	4.8	<0.002	0.26	11.55	1.3	3	4.7	52.8	<0.05	0.43	<0.2	<0.005
G284449		5.7	120	14.5	7.0	0.004	>10.0	19.70	0.4	4	1.0	82.6	<0.05	0.76	0.5	0.007
G284450		<0.2	160	34.0	3.1	<0.002	0.07	1.17	0.5	2	0.5	42.6	<0.05	<0.05	<0.2	0.006
G284451		1.7	340	33.7	15.9	<0.002	0.17	5.46	1.0	2	5.4	60.9	0.06	0.18	0.3	0.026
G284452		1.7	160	18.8	7.1	<0.002	0.14	5.17	0.8	2	1.7	55.4	<0.05	0.21	<0.2	0.008
G284453		1.4	180	117.0	2.9	<0.002	0.06	2.26	0.5	2	4.1	40.6	<0.05	0.05	<0.2	0.005
G284454		4.4	150	46.0	29.9	<0.002	0.65	38.4	1.1	4	1.8	195.5	<0.05	2.39	0.3	0.011

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

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107970

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	Tl	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.1	1	0.1	0.1	2	0.5	0.01
G284419		0.10	0.4	5	77.8	8.5	54	7.2	2.05
G284420		0.02	0.6	3	60.2	9.4	20	2.9	
G284421		0.04	0.2	3	24.2	9.1	20	2.4	1.01
G284422		<0.02	0.5	2	0.4	0.9	15	<0.5	
G284423		0.10	0.5	2	256	8.1	26	2.8	3.71
G284424		0.07	0.2	3	57.8	2.4	15	1.3	18.35
G284425		0.12	0.5	3	77.3	2.7	7	2.6	10.80
G284426		0.05	0.2	4	43.5	7.4	16	1.9	3.67
G284427		0.10	0.3	2	302	2.1	7	1.9	16.15
G284428		0.12	0.2	3	203	4.3	15	1.9	7.49
G284429		0.21	0.6	19	66.6	5.2	73	11.1	5.65
G284430		0.33	0.7	15	105.0	8.3	62	7.6	11.15
G284431		0.14	1.2	16	7.7	9.5	73	4.2	8.41
G284432		0.19	1.6	11	10.9	8.8	126	1.8	7.96
G284433		0.18	0.3	6	1.3	6.0	111	2.4	7.31
G284434		0.14	0.8	6	31.1	4.4	11	5.0	4.42
G284435		0.44	2.0	10	3.6	5.8	374	2.7	11.10
G284436		0.34	3.4	12	2.4	8.7	339	6.6	9.23
G284437		0.02	0.8	3	1.8	1.1	18	<0.5	
G284438		0.20	3.2	12	63.8	7.6	99	4.0	4.72
G284439		0.20	2.8	11	530	10.0	30	6.1	4.30
G284440		0.18	3.5	21	910	44.0	86	9.3	5.15
G284441		0.35	3.2	30	1270	45.2	53	18.7	4.02
G284442		0.30	2.8	26	1050	37.8	51	17.7	3.69
G284443		0.22	6.4	29	384	34.3	132	10.8	5.56
G284444		0.17	2.9	15	117.0	19.7	261	9.9	2.66
G284445		0.18	6.3	16	181.0	23.0	548	9.5	4.42
G284446		0.67	8.5	9	89.4	19.0	1850	7.7	5.77
G284447		0.49	7.4	16	650	26.9	915	10.0	6.97
G284448		0.27	4.9	12	309	21.4	933	4.7	4.85
G284449		0.07	0.6	5	171.5	6.3	137	3.1	2.65
G284450		0.04	0.6	5	12.4	5.5	114	2.6	
G284451		0.15	2.7	11	231	9.7	148	10.0	2.32
G284452		0.07	0.9	7	64.3	8.6	168	4.6	1.14
G284453		0.09	1.1	4	75.7	8.5	560	2.3	0.96
G284454		0.17	5.9	12	129.0	9.2	513	8.8	6.12

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107970

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

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Finalized Date: 19-OCT-2009
Account: RCM

CERTIFICATE VA09107963

Project: RAU

P.O. No.: Batch 70

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 19-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107963

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G284383		14.48	1.35	1.34	0.06	>10000	10	<0.05	152.5	11.45	1.63	7.68	1.3	<1	0.24	6.3
G284384		6.34	0.40	0.96	0.28	4390	30	0.15	116.0	12.50	3.36	9.35	1.8	1	0.54	4.2
G284385		7.78	1.13	0.62	0.25	6100	30	0.09	136.5	12.40	2.65	9.11	1.1	1	0.56	3.8
G284386		13.66	0.63	0.16	0.24	>10000	40	0.10	148.0	12.80	0.14	6.41	1.9	1	0.44	3.6
G284387		13.18	2.20	0.07	0.41	6910	110	0.17	74.1	12.45	0.17	7.80	1.6	3	0.50	3.8
G284388		3.50	0.02	<0.01	0.09	55	20	0.08	1.48	18.30	0.05	1.74	0.8	2	0.19	1.5
G284389		11.28	0.09	0.10	0.69	1320	150	0.36	6.91	16.35	0.14	7.31	1.8	7	1.01	2.4
G284390		11.86	0.08	0.05	0.57	1720	110	0.22	2.97	16.95	0.11	8.19	5.2	5	1.90	3.8
G284391		8.34	0.12	0.15	0.75	583	160	0.29	41.6	16.60	0.59	10.45	8.9	5	3.27	4.0
G284392		10.68	<0.01	0.02	0.03	135	30	<0.05	4.17	33.0	0.09	1.55	2.4	2	0.07	1.6
G284393		2.28	<0.01	0.18	0.40	16	40	0.18	0.98	31.2	0.24	7.27	8.8	13	0.69	13.1
G284394		0.80	<0.01	1.46	7.53	23	390	2.19	7.71	11.00	2.60	137.0	9.5	94	13.65	20.3
G284395		5.52	<0.01	0.02	6.16	22	740	1.43	0.58	13.45	0.04	104.5	31.0	41	30.5	17.5
G284396		3.34	<0.01	0.03	2.21	16	580	0.70	0.15	26.2	0.09	43.8	8.2	15	2.34	21.2
G284397		3.46	<0.01	0.02	0.12	17	30	<0.05	0.07	34.0	0.06	2.56	0.8	3	0.16	5.0
G284398		3.16	<0.01	0.03	0.36	25	50	0.10	0.02	34.9	0.13	8.58	1.3	5	0.19	11.8
G284399		1.60	<0.01	0.02	0.28	7	40	0.07	0.02	33.3	0.08	8.12	1.2	5	0.17	13.0
G284400		3.08	<0.01	0.03	0.17	16	30	0.07	0.18	33.7	0.07	4.13	2.5	3	0.72	5.2
G284401		4.80	<0.01	0.23	5.78	9	290	1.62	8.71	10.20	0.08	106.5	44.4	96	9.81	254
G284402		3.96	<0.01	0.02	0.16	11	50	0.07	0.10	33.5	0.08	4.96	1.0	2	0.32	1.5
G284403		2.38	<0.01	0.03	0.76	12	240	0.22	0.12	31.6	0.05	6.45	4.3	5	0.86	1.4
G284404		2.74	<0.01	0.05	0.10	14	20	0.12	0.48	23.2	0.08	4.81	1.9	10	0.27	3.9
G284405		4.56	4.68	0.22	0.35	>10000	50	0.11	72.3	12.15	0.04	9.53	1.0	3	2.92	2.3
G284406		6.30	1.55	0.19	0.25	>10000	10	<0.05	159.5	10.50	0.07	6.96	1.3	1	2.31	5.2
G284407		6.84	1.12	0.09	1.78	>10000	110	0.35	184.0	11.70	0.12	7.37	2.6	2	4.02	2.4
G284408		6.96	3.13	0.14	0.22	>10000	20	0.07	89.4	11.25	0.07	6.00	1.2	3	1.70	2.5
G284409		6.72	0.20	0.11	0.08	5350	10	<0.05	119.5	16.60	0.08	13.85	0.6	<1	0.34	1.1
G284410		7.00	5.95	0.32	0.19	>10000	10	0.07	128.5	14.00	0.14	11.35	0.7	1	0.84	1.4
G284411		0.28	0.48	0.76	0.77	4710	100	0.25	103.0	11.70	0.12	35.9	5.5	13	2.07	30.8
G284412		6.94	0.96	0.41	0.04	8300	<10	<0.05	86.3	15.10	0.08	7.17	0.5	<1	0.31	2.2
G284413		7.04	0.30	1.38	0.12	6690	10	0.07	223	14.95	0.20	13.90	0.6	1	0.52	3.0
G284414		6.36	0.23	0.50	0.13	5720	10	0.08	138.5	15.80	0.23	14.05	0.6	1	0.48	1.4
G284415		3.66	<0.01	0.02	0.08	13	10	0.06	0.63	18.80	0.05	1.56	0.9	2	0.18	0.5
G284416		6.64	0.83	0.40	0.08	>10000	10	<0.05	191.5	15.15	0.09	37.1	0.7	<1	0.45	1.1
G284417		7.12	0.56	0.09	0.10	8340	10	0.05	249	14.85	0.10	45.2	0.5	<1	0.70	1.4
G284418		0.28	5.55	0.16	0.11	>10000	30	0.08	482	8.32	0.04	39.8	1.7	13	0.76	38.9

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Project: RAU

Finalized Date: 19-OCT-2009
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CERTIFICATE OF ANALYSIS VA09107963

Sample Description	Method Analyte Units LOR	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
G284383		15.55	0.48	0.15	<0.1	<0.1	0.122	0.03	3.4	1.2	6.50	2860	0.20	0.01	0.3	2.9
G284384		14.10	1.81	0.13	0.1	<0.1	0.075	0.12	3.8	1.9	7.13	3680	0.20	0.01	0.8	5.1
G284385		14.85	1.65	0.13	0.2	<0.1	0.077	0.11	4.7	1.7	7.13	2820	0.13	0.01	0.9	3.4
G284386		12.70	1.63	0.11	0.2	<0.1	0.055	0.11	2.7	1.6	7.48	2500	0.09	0.01	1.0	6.8
G284387		12.00	2.22	0.11	0.3	<0.1	0.050	0.21	3.9	1.9	7.44	2160	0.15	0.01	1.5	5.2
G284388		0.45	0.30	<0.05	<0.1	<0.01	<0.005	0.05	0.7	1.5	11.70	193	0.15	0.01	0.5	2.0
G284389		5.55	4.15	0.09	0.5	<0.01	0.035	0.31	4.0	7.5	9.90	1490	0.33	0.01	3.0	2.9
G284390		5.21	2.90	0.10	0.4	<0.1	0.034	0.28	4.6	8.6	9.51	1980	0.35	0.02	2.5	7.2
G284391		7.75	3.94	0.11	0.4	<0.1	0.051	0.39	4.8	14.5	8.51	4320	0.31	0.02	2.7	13.1
G284392		1.25	0.14	<0.05	<0.1	<0.01	0.005	0.01	1.8	0.4	1.36	426	0.28	<0.01	0.2	<0.2
G284393		1.56	0.91	<0.05	0.2	<0.1	0.013	0.10	3.7	3.0	1.92	538	1.19	0.01	1.6	13.0
G284394		5.22	20.7	0.14	1.3	0.01	0.048	2.67	71.4	19.9	0.72	390	0.52	0.06	89.2	34.1
G284395		4.90	18.50	0.10	0.6	<0.01	0.069	3.15	50.4	53.1	2.69	785	0.24	0.10	38.5	65.9
G284396		1.34	6.34	0.06	0.8	<0.01	0.017	1.18	24.0	8.7	0.43	187	0.16	0.04	24.8	10.0
G284397		0.18	0.35	0.05	<0.1	<0.01	0.009	0.07	2.2	0.6	0.44	143	<0.05	<0.01	1.0	<0.2
G284398		0.35	1.11	0.06	0.2	<0.01	0.005	0.19	5.7	1.2	0.29	182	0.06	<0.01	3.7	<0.2
G284399		0.33	0.88	0.05	0.1	<0.01	0.007	0.16	5.4	1.1	0.27	183	0.05	<0.01	2.6	<0.2
G284400		0.60	0.52	0.05	0.1	<0.01	0.009	0.11	3.5	1.6	0.95	239	0.10	0.01	1.1	0.5
G284401		10.90	14.30	0.20	1.0	<0.01	0.024	4.30	54.1	36.2	0.77	261	0.73	0.31	48.5	96.7
G284402		0.36	0.38	0.05	0.1	<0.1	0.005	0.09	4.0	1.3	1.21	196	<0.05	0.01	0.8	<0.2
G284403		1.24	2.09	0.05	0.2	<0.1	0.019	0.37	4.4	3.9	1.01	211	0.06	0.06	4.1	5.2
G284404		1.10	0.34	0.06	0.1	<0.1	0.029	0.06	3.5	1.7	8.55	428	0.24	<0.01	0.3	0.4
G284405		16.35	2.24	0.18	0.3	<0.1	0.080	0.24	4.1	5.0	6.57	2600	<0.05	0.01	2.2	2.5
G284406		18.00	1.45	0.20	0.2	<1	0.063	0.16	2.6	2.9	6.10	2030	0.05	<0.01	2.1	2.8
G284407		11.30	6.69	0.15	1.6	<0.1	0.088	1.09	2.7	8.5	6.80	2070	0.07	0.01	30.3	5.5
G284408		16.35	1.35	0.18	0.3	<0.1	0.091	0.13	2.2	3.1	6.11	2120	0.05	<0.01	2.1	2.5
G284409		7.64	0.66	0.14	<0.1	<0.1	0.086	0.03	6.0	2.8	9.40	3640	0.05	0.01	0.3	<0.2
G284410		11.20	1.21	0.13	0.1	<0.1	0.111	0.06	4.8	2.5	7.45	3340	0.05	0.01	1.6	<0.2
G284411		13.95	3.51	0.19	0.2	<0.1	0.074	0.39	19.3	5.5	6.38	1960	16.55	0.02	3.1	19.4
G284412		9.14	0.43	0.13	<0.1	<0.1	0.085	0.02	2.7	2.3	8.55	3120	0.05	0.01	0.1	<0.2
G284413		10.30	0.97	0.16	0.1	<0.1	0.122	0.05	6.4	2.8	8.27	3430	0.07	0.01	0.5	<0.2
G284414		8.21	1.09	0.12	0.1	<0.1	0.107	0.04	6.5	2.9	8.84	3390	<0.05	0.01	0.6	<0.2
G284415		0.39	0.28	0.07	<0.1	<0.01	0.005	0.04	0.7	1.6	12.05	178	<0.05	0.01	0.3	<0.2
G284416		8.59	0.77	0.15	0.1	<0.1	0.098	0.04	20.2	2.7	8.30	3260	<0.05	0.01	0.3	<0.2
G284417		10.00	0.96	0.14	0.1	<0.1	0.091	0.07	24.3	2.8	8.19	3390	<0.05	0.01	0.4	<0.2
G284418		23.1	1.01	0.27	0.2	<1	0.072	0.07	24.4	1.8	4.65	1420	10.95	0.01	1.3	11.8

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 19-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107963

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284383		80	62.1	1.8	<0.002	>10.0	12.50	0.4	3	0.3	83.8	<0.05	0.45	<0.2	0.005	0.05
G284384		380	128.0	10.9	<0.002	>10.0	7.31	0.7	2	2.1	90.7	0.05	0.09	0.2	0.016	0.06
G284385		230	66.2	7.7	<0.002	>10.0	11.15	0.6	3	0.8	89.9	<0.05	0.13	0.2	0.017	0.08
G284386		280	6.0	6.5	<0.002	>10.0	13.60	0.9	2	0.5	96.4	0.05	0.15	<0.2	0.019	0.07
G284387		200	4.3	9.4	<0.002	>10.0	9.79	1.0	2	0.5	84.5	0.08	0.10	0.3	0.038	0.12
G284388		330	1.3	1.7	<0.002	0.09	0.22	0.4	2	<0.2	46.4	<0.05	<0.05	<0.2	0.005	<0.02
G284389		420	4.3	16.6	<0.002	5.02	1.09	1.5	2	0.6	66.5	0.17	0.13	0.5	0.088	0.21
G284390		400	3.3	11.5	<0.002	2.93	0.79	1.4	2	0.5	79.6	0.14	0.12	0.5	0.064	0.21
G284391		350	17.9	20.7	<0.002	3.04	1.28	1.4	2	1.5	113.5	0.16	0.12	0.6	0.082	0.36
G284392		30	2.0	0.5	<0.002	0.39	0.17	0.2	2	<0.2	169.5	<0.05	0.12	<0.2	<0.005	0.02
G284393		110	34.0	4.5	0.002	0.82	1.91	1.8	2	0.2	142.5	0.09	0.11	0.5	0.033	0.18
G284394		2590	266	193.5	<0.002	2.37	6.32	14.4	2	4.7	87.0	4.75	0.13	9.5	0.973	3.12
G284395		2230	3.3	188.0	<0.002	0.73	0.14	13.8	2	4.3	97.3	2.27	0.10	5.3	1.135	1.66
G284396		380	2.3	30.0	<0.002	0.76	0.08	2.9	2	0.9	133.5	1.51	0.09	4.9	0.176	0.14
G284397		60	0.9	1.6	<0.002	0.12	0.06	0.4	2	<0.2	146.0	0.05	0.12	0.2	0.013	0.04
G284398		210	1.3	4.3	<0.002	0.30	0.11	0.9	2	0.2	133.5	0.19	0.13	0.6	0.038	0.03
G284399		190	1.2	3.4	<0.002	0.25	0.11	0.8	2	<0.2	133.0	0.14	0.12	0.4	0.030	0.03
G284400		60	1.2	6.4	<0.002	0.32	0.07	0.7	3	0.2	156.5	0.06	0.14	0.2	0.021	0.04
G284401		1610	3.9	272	<0.002	4.89	0.19	12.2	2	8.7	158.5	2.62	0.25	7.6	0.611	1.25
G284402		110	0.9	2.6	<0.002	0.31	0.08	0.7	2	0.2	129.5	<0.05	0.12	0.2	0.014	0.04
G284403		190	1.2	11.6	<0.002	1.40	0.34	1.4	2	0.5	128.5	0.21	0.09	0.6	0.097	0.21
G284404		60	1.9	1.9	<0.002	1.13	0.34	0.8	2	0.3	89.7	<0.05	0.13	<0.2	0.005	0.08
G284405		190	2.5	32.7	<0.002	>10.0	12.70	0.9	3	0.5	82.5	0.13	0.22	0.4	0.033	0.23
G284406		110	4.0	31.5	<0.002	>10.0	8.31	0.6	3	0.4	70.2	0.12	0.32	0.5	0.016	0.21
G284407		330	4.6	83.2	<0.002	8.98	16.20	1.2	3	2.6	76.3	1.81	0.38	3.3	0.102	0.36
G284408		110	3.7	18.6	0.004	>10.0	18.95	0.5	4	0.3	72.9	0.13	0.44	0.3	0.013	0.19
G284409		100	4.7	3.4	<0.002	4.95	5.56	0.6	3	0.5	125.5	<0.05	0.20	<0.2	<0.005	0.07
G284410		80	4.4	8.0	<0.002	7.96	9.56	0.5	2	0.5	101.0	0.10	0.16	0.8	0.013	0.07
G284411		220	13.1	31.0	0.015	>10.0	4.15	1.9	7	3.1	84.4	0.18	0.28	0.8	0.083	0.26
G284412		120	5.0	2.0	<0.002	7.23	3.91	0.3	2	0.3	111.5	<0.05	0.26	<0.2	<0.005	0.04
G284413		110	11.6	6.4	<0.002	9.21	6.77	0.5	3	1.0	112.0	<0.05	0.31	<0.2	0.010	0.06
G284414		150	5.1	5.6	<0.002	6.54	4.17	0.5	3	0.9	125.0	<0.05	0.29	<0.2	0.011	0.05
G284415		210	1.3	1.6	<0.002	0.03	<0.05	0.3	2	<0.2	51.2	<0.05	0.07	<0.2	<0.005	<0.02
G284416		140	4.3	4.8	<0.002	6.94	5.77	0.4	3	0.5	115.5	<0.05	0.30	0.2	0.006	0.04
G284417		140	3.5	9.0	<0.002	8.78	8.59	0.5	3	0.7	121.5	<0.05	0.35	0.3	0.008	0.06
G284418		60	6.4	7.7	0.002	>10.0	21.3	0.4	10	2.0	56.7	0.08	1.46	0.4	0.008	0.16

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 19-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107963

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
G284383		0.4	3	0.5	6.1	366	2.0	3.64
G284384		0.7	10	1.7	7.7	859	6.3	
G284385		0.4	10	3.9	5.7	527	6.7	
G284386		0.4	13	3.8	5.8	37	7.0	1.15
G284387		0.4	12	135.0	5.1	55	10.1	
G284388		0.5	<1	1.6	1.2	13	0.6	
G284389		0.7	17	2.0	5.4	43	18.1	
G284390		0.8	20	5.4	5.3	42	12.7	
G284391		0.7	35	13.8	7.2	108	14.7	
G284392		0.2	3	0.3	2.6	14	0.8	
G284393		2.1	8	1.0	4.8	82	6.5	
G284394		1.3	119	7.9	28.4	744	43.4	
G284395		0.6	141	1.5	18.1	51	18.3	
G284396		0.4	19	0.6	9.1	17	27.2	
G284397		0.2	1	0.1	2.2	13	1.6	
G284398		0.4	7	0.3	4.5	15	6.5	
G284399		0.3	6	0.2	4.2	9	5.3	
G284400		0.3	3	0.1	3.2	11	2.9	
G284401		1.3	97	6.2	21.8	28	34.8	
G284402		0.2	3	0.1	4.5	9	3.7	
G284403		0.2	13	0.2	4.4	8	12.7	
G284404		0.3	8	0.1	4.6	13	2.8	
G284405		1.2	7	129.0	6.6	12	11.4	5.66
G284406		0.6	5	99.9	6.0	13	7.6	2.57
G284407		2.8	16	35.5	8.8	21	51.7	4.85
G284408		0.6	4	480	5.1	12	8.0	8.63
G284409		0.4	5	3.6	9.4	24	2.0	
G284410		5.9	5	125.5	8.7	32	4.4	4.22
G284411		0.6	17	61.3	7.1	30	7.6	
G284412		0.6	2	108.5	6.3	16	1.1	
G284413		0.3	4	80.3	7.7	40	3.4	
G284414		0.4	4	57.7	8.0	47	4.5	
G284415		0.8	1	0.3	1.0	12	<0.5	
G284416		0.3	3	85.9	7.8	17	2.6	1.49
G284417		0.4	4	146.5	7.9	18	2.6	
G284418		0.6	7	34.8	4.4	9	4.7	4.77

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 19-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107963

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE VA09107519

Project: RAU

P.O. No.: Batch 62

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107519

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885445		6.58	0.14	0.18	0.03	3760	10	0.06	134.0	9.28	0.05	10.95	0.9	2	0.08	7.6
H885446		8.40	5.87	0.42	0.03	>10000	10	<0.05	328	1.65	0.05	14.95	0.4	1	0.08	10.2
H885447		0.28	0.50	0.91	0.83	6300	130	0.35	105.5	12.65	0.16	33.8	5.8	15	1.94	33.3
H885448		7.08	2.68	0.26	1.12	9110	130	0.25	163.5	4.47	0.06	36.1	2.3	15	0.54	11.2
H885449		3.72	<0.01	0.01	0.07	75	10	0.09	1.30	19.10	0.05	1.86	0.9	1	0.15	1.8
H885450		1.88	0.22	0.11	0.56	1350	50	0.15	63.4	11.80	0.04	7.72	1.1	6	2.15	7.6
H885451		3.60	0.03	0.04	3.55	49	780	0.89	3.69	14.45	0.03	59.8	4.4	13	3.16	1.9
H885452		5.10	0.01	0.03	0.12	15	30	0.09	0.66	18.75	0.06	4.96	0.8	2	0.24	1.3
H885453		5.06	<0.01	0.02	0.08	64	20	0.09	1.10	18.80	0.08	3.84	0.7	1	0.14	1.1
H885454		5.16	0.01	0.03	0.06	99	30	0.09	2.79	19.00	0.03	3.83	0.6	1	0.16	1.3
H885455		3.76	0.02	0.07	0.76	127	180	0.33	4.87	17.60	0.06	5.07	1.2	6	0.77	2.0
H885456		5.08	<0.01	0.03	0.34	16	70	0.16	1.11	19.35	0.06	5.28	1.0	3	0.32	1.5
H885457		2.56	<0.01	0.02	0.27	14	60	0.13	1.05	19.10	0.05	5.03	1.1	2	0.25	1.2
H885458		4.62	0.02	0.04	0.10	44	30	0.09	1.51	18.85	0.06	4.62	0.7	3	0.22	2.2
H885459		3.70	0.08	0.13	3.45	63	510	1.07	7.00	16.30	0.04	42.7	10.2	62	4.25	10.0
H885460		10.86	<0.01	0.05	7.23	9.3	1800	1.73	0.24	8.27	0.10	80.3	43.5	251	11.75	131.0
H885461		7.84	<0.01	0.07	7.02	3.7	1320	1.61	0.12	5.93	0.08	79.5	47.4	251	16.25	47.6
H885462		7.84	<0.01	0.06	7.01	3.0	750	1.77	0.18	5.62	0.09	80.1	49.8	248	4.22	59.8
H885463		7.86	<0.01	0.05	6.84	10.0	900	1.79	0.10	6.73	0.06	74.3	39.8	214	8.14	34.6
H885464		7.94	<0.01	0.01	7.21	4.8	1080	1.94	0.10	6.69	0.04	79.8	36.3	236	35.7	26.2
H885465		3.90	<0.01	0.04	7.04	32.9	1150	2.01	1.31	6.94	0.02	86.7	40.2	249	36.4	50.9
H885466		6.50	<0.01	0.09	6.94	162.5	2440	1.76	6.75	5.94	0.02	78.2	51.0	232	20.1	53.7
H885467		6.70	0.01	0.15	7.75	71.5	140	2.09	5.29	1.65	0.05	79.6	21.4	242	12.35	28.8
H885468		6.56	<0.01	0.14	1.64	80	250	0.49	11.80	15.30	0.05	26.4	4.9	17	15.10	3.4
H885469		0.28	1.70	1.86	0.11	>10000	30	0.07	344	12.60	0.89	62.0	1.6	6	0.71	19.3
H885470		6.80	0.03	0.29	2.02	285	280	0.65	28.3	11.70	0.03	9.99	3.0	19	13.55	6.9
H885471		5.02	0.02	0.27	2.18	193.0	170	0.59	97.0	8.45	0.04	19.90	4.1	22	7.75	7.0
H885472		6.74	<0.01	0.13	0.86	104	10	0.32	17.50	16.50	0.05	15.35	3.9	21	2.18	5.5
H885473		2.74	0.03	0.31	7.45	108.0	1050	1.60	19.00	5.51	0.18	80.1	19.0	192	22.3	49.2
H885474		6.96	0.01	0.15	0.47	403	10	0.29	26.1	14.25	1.73	10.20	2.4	10	1.27	6.8
H885475		3.24	0.04	0.10	0.30	260	10	0.14	35.4	2.23	0.49	27.8	2.1	18	1.77	4.3
H885476		3.84	0.09	0.17	0.21	1580	10	0.07	104.0	10.45	0.22	268	1.6	6	0.34	6.2
H885477		3.64	0.03	0.11	0.11	1170	110	0.06	67.2	0.31	0.40	97.5	0.8	16	0.28	4.6
H885478		3.56	<0.01	<0.01	0.07	12	20	0.16	0.48	19.15	0.07	2.38	1.0	1	0.24	3.7
H885479		8.32	0.01	0.23	0.97	60	30	0.41	11.65	15.90	0.10	16.35	4.0	20	6.36	4.7
H885480		6.20	0.02	0.21	1.41	180	140	0.55	21.5	11.80	1.17	79.4	3.7	20	12.05	5.3

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107519

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885445		24.1	0.34	0.26	<0.1	<1	0.045	0.01	6.6	1.3	5.22	1460	0.17	<0.01	0.2	0.5
H885446		41.8	0.36	0.41	<0.1	<1	0.027	0.01	10.6	0.7	0.82	232	0.09	<0.01	0.2	1.0
H885447		14.45	3.78	0.20	0.2	<0.01	0.070	0.42	19.3	5.7	6.72	2040	17.45	0.02	2.6	21.3
H885448		30.4	5.41	0.43	0.7	<1	0.041	0.40	25.2	2.8	2.47	579	0.13	0.10	7.3	8.5
H885449		0.49	0.27	0.07	<0.1	<0.01	<0.005	0.03	1.0	1.3	12.75	203	0.06	0.01	0.3	<0.2
H885450		17.05	3.64	0.21	0.2	<0.1	0.042	0.36	3.9	4.9	6.81	1350	0.23	0.01	1.7	1.5
H885451		1.83	10.75	0.12	0.6	<0.01	0.026	1.72	36.5	22.8	8.74	414	0.34	0.07	23.1	12.4
H885452		0.75	0.59	0.08	0.1	<0.01	0.022	0.06	3.1	2.2	12.20	660	0.32	0.01	1.0	0.4
H885453		1.46	0.43	0.07	<0.1	<0.01	0.018	0.02	2.7	1.9	12.50	639	0.06	0.01	0.4	<0.2
H885454		2.24	0.34	0.06	<0.1	<0.01	0.013	0.04	2.7	2.3	12.10	506	<0.05	0.01	0.3	<0.2
H885455		3.12	2.98	0.08	0.4	<0.01	0.020	0.38	3.0	7.9	10.95	684	0.30	0.01	4.8	2.0
H885456		0.75	1.39	0.08	0.2	<0.01	0.014	0.14	3.4	4.0	12.20	588	<0.05	0.01	2.4	1.0
H885457		0.70	1.14	0.11	0.2	<0.01	0.014	0.11	3.2	3.5	12.40	552	<0.05	0.01	1.8	1.3
H885458		1.43	0.54	0.08	0.1	<0.01	0.021	0.05	2.9	2.0	12.25	663	<0.05	0.01	0.5	0.5
H885459		2.91	9.68	0.14	0.8	<0.01	0.021	1.94	23.4	20.6	8.92	573	0.52	0.04	21.6	42.0
H885460		5.94	17.95	0.21	1.8	<0.01	0.067	3.39	42.1	40.5	5.32	2220	0.79	0.16	25.0	229
H885461		7.37	18.55	0.22	1.7	<0.01	0.060	2.84	42.3	39.8	4.94	1230	0.23	0.18	39.7	233
H885462		7.09	19.20	0.23	1.5	<0.01	0.071	1.44	41.8	32.5	6.25	919	0.12	0.44	46.9	217
H885463		6.81	17.10	0.21	1.3	<0.01	0.061	2.07	39.0	29.5	6.24	1200	0.11	0.12	41.0	197.0
H885464		5.96	18.00	0.21	2.4	<0.01	0.054	3.92	42.0	43.2	4.68	1080	0.16	0.15	32.5	234
H885465		6.24	18.00	0.21	1.7	<0.01	0.045	3.83	46.4	45.4	4.15	1000	0.13	0.12	34.8	216
H885466		6.85	19.20	0.20	2.0	<0.01	0.044	3.70	40.4	40.8	3.29	839	0.24	0.13	20.5	191.5
H885467		6.41	24.8	0.15	1.7	<0.01	0.066	4.63	38.0	33.1	1.67	109	0.79	0.07	36.3	108.0
H885468		3.52	8.03	0.07	0.8	<0.01	0.010	1.41	15.9	11.4	10.15	789	0.49	0.02	10.5	15.6
H885469		16.55	0.92	0.20	0.1	<0.01	0.096	0.07	41.0	1.8	7.02	2150	5.92	<0.01	0.5	8.3
H885470		9.04	9.80	0.13	1.1	<0.01	0.020	1.43	4.8	11.1	7.32	759	0.28	0.02	10.0	13.5
H885471		6.77	8.96	0.09	1.0	<0.01	0.015	1.22	10.5	8.0	5.07	553	0.37	0.07	12.6	18.6
H885472		4.98	4.66	0.07	0.7	<0.01	0.007	0.17	8.6	3.3	9.96	715	0.20	0.05	5.5	17.6
H885473		6.25	24.8	0.17	1.4	<0.01	0.022	4.85	43.9	35.5	3.81	253	0.90	0.17	36.8	82.7
H885474		9.96	2.66	0.13	0.4	<0.01	0.036	0.10	4.9	3.3	9.53	1510	0.38	0.01	1.4	9.6
H885475		8.34	2.20	0.10	0.5	<0.01	0.005	0.10	17.1	1.5	1.63	299	0.32	<0.01	6.9	7.3
H885476		16.70	1.92	0.29	0.2	<0.01	0.017	0.02	178.0	1.7	6.64	945	0.19	<0.01	1.0	8.7
H885477		19.55	1.14	0.21	0.1	<0.01	<0.005	0.01	67.4	0.6	0.29	168	0.33	<0.01	0.4	5.9
H885478		0.43	0.27	<0.05	<0.1	<0.01	<0.005	0.03	1.2	1.4	13.15	188	0.11	<0.01	0.3	1.6
H885479		3.59	5.92	0.09	0.7	<0.01	0.014	0.38	8.9	5.6	10.55	788	0.47	0.04	6.9	19.1
H885480		7.82	8.40	0.16	0.7	<0.01	0.041	0.79	51.2	6.4	7.16	1440	0.38	0.02	5.8	17.3

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Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107519

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885445		40	4.7	1.0	<0.002	>10.0	8.24	0.6	6	<0.2	70.5	<0.05	0.17	<0.2	<0.005	0.06
H885446		30	10.3	0.7	<0.002	>10.0	28.2	0.2	14	0.3	13.4	<0.05	0.65	<0.2	<0.005	0.08
H885447		250	14.1	30.6	0.017	>10.0	4.57	2.2	7	3.1	89.7	0.15	0.19	0.7	0.092	0.27
H885448		280	8.6	20.0	0.002	>10.0	12.05	1.3	10	2.6	34.9	0.34	0.36	1.5	0.087	0.16
H885449		250	1.3	1.3	<0.002	0.10	0.12	0.3	1	<0.2	49.8	<0.05	<0.05	<0.2	<0.005	<0.02
H885450		210	3.2	23.3	<0.002	>10.0	4.63	1.2	7	0.8	59.7	0.10	0.06	0.2	0.023	0.20
H885451		430	2.5	49.6	<0.002	2.21	0.66	2.4	2	2.0	48.1	1.27	<0.05	5.0	0.152	0.32
H885452		90	2.8	2.4	0.003	0.46	0.42	0.5	2	0.2	54.3	0.05	<0.05	0.2	0.010	0.07
H885453		70	2.2	0.7	<0.002	1.60	0.36	0.3	2	<0.2	54.8	<0.05	<0.05	<0.2	0.005	<0.02
H885454		40	1.8	1.1	<0.002	2.79	0.53	0.3	2	<0.2	50.8	<0.05	<0.05	<0.2	<0.005	<0.02
H885455		150	3.7	12.0	<0.002	3.79	0.81	1.0	3	0.8	60.1	0.29	<0.05	1.4	0.044	0.07
H885456		130	2.2	4.5	<0.002	0.56	0.46	0.7	2	0.4	56.1	0.15	<0.05	0.6	0.025	0.03
H885457		100	2.0	3.6	<0.002	0.53	0.43	0.6	2	0.3	54.8	0.11	<0.05	0.5	0.019	0.02
H885458		50	2.2	1.7	<0.002	1.42	0.46	0.6	2	0.2	53.0	<0.05	<0.05	0.2	0.009	<0.02
H885459		670	4.2	55.9	<0.002	3.60	3.30	7.6	2	2.4	56.5	1.24	<0.05	4.3	0.363	0.46
H885460		2000	2.9	94.8	0.002	0.29	0.21	23.3	2	3.8	175.5	1.63	<0.05	7.0	0.853	0.59
H885461		1970	2.5	109.5	<0.002	0.18	0.22	22.6	2	4.0	145.5	2.45	<0.05	7.2	0.967	0.85
H885462		1850	2.6	47.6	<0.002	0.09	0.28	23.4	2	1.8	110.0	2.76	<0.05	7.4	0.984	0.20
H885463		1780	2.2	92.2	<0.002	0.08	0.19	20.2	2	1.8	118.0	2.45	<0.05	7.5	0.913	0.50
H885464		1910	1.8	253	0.002	0.25	0.11	21.2	2	2.9	93.7	1.91	<0.05	7.7	0.829	1.89
H885465		1930	1.4	241	0.002	1.14	0.12	20.3	2	3.4	75.3	2.04	0.05	7.8	0.832	2.00
H885466		1970	2.0	182.0	0.002	6.58	0.30	21.6	2	4.4	89.8	1.20	0.16	7.1	0.628	1.31
H885467		2320	3.9	199.5	<0.002	6.85	0.54	19.3	1	4.6	42.6	2.24	0.20	9.0	0.516	1.23
H885468		520	3.1	240	<0.002	4.15	0.39	2.8	2	1.4	88.8	0.64	0.08	2.7	0.148	1.16
H885469		120	15.8	7.6	0.005	>10.0	22.4	0.6	5	1.2	87.3	<0.05	0.96	0.5	0.009	0.11
H885470		700	2.9	195.5	<0.002	>10.0	1.00	2.6	7	1.8	52.1	0.61	0.30	2.4	0.132	1.15
H885471		630	3.1	145.0	<0.002	7.82	1.70	3.1	3	2.0	47.1	0.77	0.52	3.6	0.136	0.77
H885472		320	3.5	33.3	<0.002	5.91	0.75	2.5	3	1.3	65.5	0.31	0.14	1.0	0.111	0.17
H885473		2450	3.4	480	<0.002	6.51	1.41	19.8	2	6.7	43.4	2.17	0.49	7.2	0.768	2.24
H885474		330	7.8	16.9	0.007	9.14	2.34	1.8	6	0.6	79.1	0.08	0.27	0.6	0.038	0.41
H885475		110	3.9	22.6	<0.002	8.31	0.99	0.8	5	3.5	10.8	0.42	0.20	0.6	0.070	0.18
H885476		280	3.4	2.9	0.011	>10.0	1.82	1.3	10	0.5	55.9	0.06	0.34	1.0	0.019	0.26
H885477		80	12.5	0.7	<0.002	>10.0	3.18	0.3	6	0.4	2.9	<0.05	0.24	0.4	0.006	0.20
H885478		300	1.4	1.6	<0.002	0.04	0.05	0.5	4	0.2	57.0	<0.05	0.08	<0.2	<0.005	<0.02
H885479		590	2.7	77.6	<0.002	3.72	0.80	2.8	5	1.4	86.8	0.35	0.39	1.5	0.118	0.47
H885480		470	5.4	134.5	0.002	7.64	1.76	3.4	7	1.4	73.6	0.28	0.29	2.6	0.091	1.03

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CERTIFICATE OF ANALYSIS VA09107519

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885445		0.3	6	23.3	5.1	13	0.6	
H885446		0.4	2	157.0	1.4	5	0.8	1.04
H885447		0.4	18	63.3	7.3	34	7.0	
H885448		1.3	21	141.0	4.0	14	32.2	
H885449		1.0	2	1.3	1.0	14	<0.5	
H885450		0.4	12	11.1	6.5	10	10.4	
H885451		0.5	17	2.3	7.5	9	25.5	
H885452		0.1	7	490	4.2	11	2.5	
H885453		0.1	6	3.8	2.7	14	1.7	
H885454		<0.1	7	1.5	2.8	6	1.1	
H885455		0.6	11	6.8	4.5	10	13.7	
H885456		0.2	7	1.3	3.8	10	7.6	
H885457		0.2	6	1.2	3.7	9	6.3	
H885458		0.1	6	0.7	3.8	9	2.2	
H885459		0.7	49	3.4	13.3	14	31.9	
H885460		2.0	184	0.4	20.8	99	73.7	
H885461		1.1	160	0.7	19.8	103	70.0	
H885462		1.1	180	0.7	20.1	185	62.3	
H885463		1.0	163	0.8	18.9	142	49.1	
H885464		1.4	177	1.0	20.8	60	97.8	
H885465		1.2	171	1.5	19.7	46	70.2	
H885466		1.5	170	2.7	18.1	30	76.1	
H885467		1.6	163	4.2	16.1	24	70.4	
H885468		1.3	23	1.5	9.4	15	33.4	
H885469		0.9	7	200	7.6	136	3.8	2.02
H885470		1.9	31	92.6	7.3	11	45.0	
H885471		1.5	25	3.2	7.6	14	41.9	
H885472		1.0	22	3.3	6.8	15	27.8	
H885473		1.2	176	12.6	15.0	57	58.5	
H885474		1.5	17	8.1	7.2	267	17.2	
H885475		1.4	10	3.8	3.7	99	22.4	
H885476		3.0	14	207	6.7	68	10.2	
H885477		1.9	5	4.7	1.5	119	2.9	
H885478		0.7	3	0.4	1.2	13	0.6	
H885479		0.9	25	2.8	7.5	28	36.5	
H885480		2.0	27	3.6	10.0	141	32.7	

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CERTIFICATE OF ANALYSIS VA09107519

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Account: RCM

CERTIFICATE VA09107518

Project: RAU

P.O. No.: Batch 67

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107518

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G284275		8.06	<0.01	0.15	0.25	9	10	0.23	2.18	17.95	0.17	8.25	1.8	5	0.47	11.5
G284276		8.12	0.01	0.07	0.10	32	10	0.20	1.84	18.20	0.03	5.22	1.1	3	0.48	3.7
G284277		7.60	0.05	0.05	0.08	9	30	0.19	1.27	18.70	0.20	5.76	0.6	2	0.25	3.4
G284278		8.36	0.01	0.14	0.10	95	20	0.18	37.5	17.45	0.10	7.62	3.1	2	0.40	14.4
G284279		0.28	1.51	1.70	0.10	>10000	20	<0.05	332	12.05	0.88	65.3	1.7	6	0.63	18.0
G284280		7.92	<0.01	0.10	0.69	40	20	0.19	2.61	17.75	0.15	9.30	1.9	48	0.45	4.0
G284281		7.86	<0.01	0.09	0.71	58	20	0.22	0.69	17.55	0.17	60.5	0.7	21	0.40	6.8
G284282		8.24	<0.01	0.15	0.32	63	10	0.22	3.03	17.80	0.06	9.62	5.3	8	0.34	4.3
G284283		7.34	<0.01	0.10	0.18	37	20	0.13	0.80	18.35	0.45	40.0	1.2	5	1.20	6.1
G284284		3.60	0.01	0.13	0.21	54	10	0.16	0.95	17.75	0.28	66.0	2.0	7	1.22	8.7
G284285		8.86	0.07	0.13	0.09	331	10	0.06	71.6	16.00	0.06	78.7	3.7	2	0.77	3.0
G284286		3.66	0.01	0.28	0.14	63	20	0.15	11.35	18.10	0.66	7.04	1.6	3	0.18	3.1
G284287		5.02	0.02	0.93	0.30	99	130	0.12	5.67	16.90	5.03	6.76	2.0	5	0.13	5.7
G284288		5.22	0.06	1.36	0.24	248	20	0.11	93.9	14.10	2.41	6.90	1.3	5	0.28	5.7
G284289		5.70	0.06	1.30	0.21	270	30	0.12	22.3	14.25	2.50	6.97	1.8	5	0.40	6.1
G284290		4.78	0.02	0.84	0.11	74	20	0.16	15.70	18.15	3.56	6.66	1.3	2	0.23	4.4
G284291		5.28	0.01	0.09	0.39	43	30	0.11	2.06	17.60	0.58	8.81	1.1	4	0.16	4.1
G284292		4.06	<0.01	0.07	0.08	<5	20	0.05	0.10	19.70	0.08	1.74	1.1	2	0.20	3.0
G284293		4.64	0.01	0.17	0.08	138	10	0.10	0.71	18.50	0.47	4.81	0.9	2	0.11	4.5
G284294		3.98	0.18	0.21	0.12	58	10	0.16	32.7	18.25	0.38	5.35	3.2	2	0.48	13.1
G284295		5.04	0.01	<0.01	6.88	12	1310	1.68	2.11	10.20	0.08	98.0	41.8	45	18.90	51.4
G284296		5.08	<0.01	<0.01	5.22	9	420	1.06	0.74	17.55	0.07	75.2	54.5	33	6.20	93.8
G284297		5.26	<0.01	<0.01	5.00	<5	770	1.34	0.12	18.70	0.11	77.6	41.6	28	5.10	33.4
G284298		4.84	<0.01	0.07	5.69	13	850	1.43	0.40	16.85	0.81	82.3	47.5	37	25.6	23.3
G284299		5.24	0.01	<0.01	5.30	<5	820	1.31	0.19	17.55	0.11	83.9	50.8	34	18.90	22.5
G284300		0.28	0.49	0.83	0.81	4570	100	0.31	92.9	12.20	0.14	36.3	6.0	14	1.93	34.6
G284301		4.80	<0.01	<0.01	5.74	8	1380	1.38	0.55	18.00	0.07	81.7	41.3	35	12.70	32.7
G284302		5.14	0.01	0.56	6.31	43	110	1.69	3.44	11.45	0.78	86.5	48.1	36	9.11	38.0
G284303		4.48	0.19	5.18	2.36	278	30	1.08	23.5	14.60	19.65	7.45	12.9	87	6.04	52.0
G284304		3.56	<0.01	1.47	3.66	233	70	1.73	45.5	7.52	0.23	35.4	33.5	108	11.05	44.2
G284305		5.56	0.51	1.71	4.26	274	80	2.00	53.0	9.14	0.27	39.3	39.0	128	12.85	52.7
G284306		6.98	<0.01	0.14	0.05	80	40	0.13	5.10	20.0	0.32	7.37	1.4	2	0.30	1.4
G284307		5.92	0.03	0.08	0.08	570	50	<0.05	0.45	35.6	0.20	3.10	1.3	1	0.13	1.8
G284308		7.66	<0.01	0.01	0.16	<5	80	<0.05	0.05	36.0	0.05	3.18	1.2	4	0.18	2.0
G284309		3.88	1.20	0.13	3.12	9030	1910	0.72	25.9	9.55	0.05	49.8	7.3	47	7.09	17.6
G284310		0.36	15.70	0.42	0.05	>10000	20	<0.05	304	6.19	0.09	34.6	0.5	1	0.19	9.6

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Project: RAU

Finalized Date: 13-OCT-2009
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CERTIFICATE OF ANALYSIS VA09107518

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284275		1.51	1.76	0.06	0.2	<0.01	0.015	0.04	3.9	2.8	11.55	668	8.06	0.03	0.6	4.7
G284276		1.18	0.72	0.07	<0.1	<0.01	0.010	0.04	2.7	3.7	11.75	472	2.48	0.02	0.3	4.3
G284277		0.48	0.43	0.09	<0.1	0.1	0.010	0.03	2.9	4.3	11.90	530	0.58	0.03	0.2	<0.2
G284278		5.34	0.66	0.09	<0.1	<0.1	0.024	0.03	3.2	3.9	10.95	1300	0.23	0.02	0.2	8.8
G284279		16.80	0.93	0.21	0.1	<0.1	0.100	0.06	39.4	2.0	6.85	2180	5.81	0.01	0.5	6.2
G284280		1.43	4.65	0.06	0.8	<0.01	0.022	0.03	4.2	4.1	11.45	1100	5.18	0.08	5.3	10.0
G284281		1.60	4.85	0.07	0.3	<0.1	0.027	0.02	35.5	3.9	11.20	1560	6.16	0.09	1.7	2.0
G284282		1.79	2.19	0.06	0.2	<0.1	0.021	0.02	4.9	3.5	11.40	710	5.24	0.05	0.9	9.1
G284283		1.63	1.49	0.07	0.1	<0.01	0.034	0.08	22.8	3.6	11.70	1460	2.85	0.02	0.4	3.8
G284284		1.87	1.80	0.07	0.1	<0.01	0.035	0.09	39.7	3.7	11.45	1400	5.04	0.03	0.8	7.0
G284285		6.52	0.92	0.13	0.1	<0.01	0.021	0.05	52.5	3.8	10.45	949	3.32	0.02	0.2	12.8
G284286		3.30	0.91	0.06	0.1	<0.1	0.070	0.03	3.9	1.5	10.50	1640	0.34	0.02	0.9	6.3
G284287		2.94	1.89	0.06	0.3	<0.1	0.067	0.02	3.7	1.5	10.55	1730	0.34	0.04	2.7	6.5
G284288		6.23	1.90	0.10	0.3	<0.1	0.312	0.01	3.4	1.9	8.61	3180	0.15	0.03	1.9	4.1
G284289		7.49	1.37	0.10	0.1	<0.01	0.178	0.04	3.0	1.7	8.38	2540	0.19	0.02	0.9	8.1
G284290		2.59	0.75	0.05	0.1	<0.01	0.091	0.03	4.0	1.8	11.05	1910	0.16	0.01	0.6	3.7
G284291		2.13	2.68	0.06	0.3	<0.1	0.060	0.01	4.2	1.6	10.85	1880	0.17	0.04	2.4	2.9
G284292		0.41	0.29	0.06	<0.1	<0.01	0.006	0.04	0.8	1.1	12.35	188	0.15	0.01	0.3	0.8
G284293		1.38	0.48	<0.05	0.1	<0.01	0.042	0.01	2.7	1.3	11.35	1020	0.12	0.01	0.5	2.0
G284294		3.81	0.69	0.06	0.1	<0.01	0.035	0.04	2.8	1.9	10.90	1140	0.37	0.01	0.8	8.5
G284295		4.74	23.1	0.15	0.4	<0.01	0.068	3.98	49.2	42.2	3.95	586	0.16	0.09	35.1	73.7
G284296		4.75	16.35	0.13	0.3	<0.01	0.058	2.62	38.8	16.4	1.68	788	0.14	0.12	23.7	95.3
G284297		4.80	15.45	0.12	0.2	<0.01	0.061	2.34	40.5	12.3	1.92	855	0.11	0.11	28.4	86.6
G284298		5.01	17.50	0.15	0.4	<0.01	0.059	2.70	42.5	36.0	1.96	821	0.15	0.21	28.3	103.0
G284299		5.90	16.75	0.17	0.3	<0.01	0.057	2.26	40.0	26.0	1.93	889	0.12	0.21	37.8	105.0
G284300		14.90	3.72	0.16	0.2	<0.01	0.072	0.41	19.4	4.6	6.73	2040	16.80	0.03	3.4	21.2
G284301		3.80	16.60	0.14	0.7	<0.01	0.059	2.60	41.2	27.1	2.06	683	0.14	0.12	37.7	91.4
G284302		5.54	18.95	0.16	0.9	<0.01	0.049	2.66	42.4	26.4	3.24	593	1.05	0.05	39.3	98.1
G284303		7.48	11.20	0.13	1.2	0.1	0.058	1.11	2.2	4.7	4.38	1280	42.4	0.02	4.6	147.5
G284304		11.90	17.95	0.20	2.1	<0.1	0.030	1.98	16.8	11.5	3.60	388	101.5	0.02	11.0	224
G284305		13.75	20.9	0.25	2.4	<1	0.034	2.31	18.5	13.5	4.49	458	117.0	0.02	12.9	266
G284306		2.34	0.27	0.06	<0.1	<0.01	0.015	0.02	3.7	3.5	12.75	632	0.52	0.02	0.1	2.5
G284307		1.09	0.25	<0.05	<0.1	<0.01	0.006	0.05	2.6	0.3	0.82	713	0.25	<0.01	0.4	<0.2
G284308		0.19	0.41	<0.05	0.1	<0.01	<0.005	0.11	3.0	0.4	0.79	159	0.13	0.01	1.0	<0.2
G284309		7.54	10.25	0.11	0.6	<0.1	0.052	1.80	29.1	16.2	6.50	947	0.72	0.10	23.6	22.9
G284310		17.80	0.68	0.37	<0.1	0.05	0.075	0.02	21.1	1.2	1.81	828	0.27	0.01	0.3	4.1

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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284275		560	11.7	6.0	0.012	0.96	0.73	0.7	3	0.6	72.0	<0.05	0.08	0.7	0.012	0.10
G284276		170	2.2	7.2	0.009	1.10	0.42	0.5	3	0.2	64.6	<0.05	0.05	0.2	0.006	0.07
G284277		70	7.1	1.9	0.005	0.19	0.60	0.5	2	0.3	61.7	<0.05	<0.05	<0.2	<0.005	0.12
G284278		60	16.3	2.0	0.009	5.24	3.59	1.0	3	0.4	84.5	<0.05	0.18	0.5	<0.005	0.26
G284279		110	15.1	7.3	0.004	>10.0	21.9	0.5	6	1.2	89.6	<0.05	0.89	0.5	0.008	0.09
G284280		670	8.9	3.0	0.130	1.01	0.87	1.3	3	2.4	89.3	0.30	0.08	1.1	0.129	0.06
G284281		610	7.8	1.4	0.110	0.71	0.45	1.6	2	1.1	95.7	0.10	0.06	0.8	0.038	0.05
G284282		650	6.9	2.3	0.051	1.76	0.48	1.0	3	1.0	74.5	0.06	0.10	0.6	0.020	0.04
G284283		160	18.7	14.8	0.025	1.00	0.53	1.7	3	1.5	93.9	<0.05	0.07	1.0	0.008	0.13
G284284		190	20.5	16.1	0.041	1.31	0.66	1.5	3	1.8	86.0	<0.05	0.06	4.6	0.015	0.13
G284285		190	6.0	9.6	0.004	7.69	4.06	1.1	4	0.3	71.5	<0.05	0.20	0.7	<0.005	0.07
G284286		150	40.7	2.4	<0.002	3.29	0.79	0.6	3	1.1	69.5	0.05	0.08	0.2	0.013	0.04
G284287		190	112.0	1.1	<0.002	1.76	1.46	0.8	3	1.6	54.5	0.15	0.08	0.4	0.036	0.05
G284288		110	194.5	0.9	<0.002	5.93	3.91	1.0	4	2.2	63.8	0.12	0.14	0.4	0.013	0.12
G284289		200	130.0	3.3	<0.002	7.23	1.88	0.9	6	1.0	78.6	0.05	0.11	0.2	0.011	0.12
G284290		170	121.5	3.0	<0.002	2.03	1.16	0.5	3	1.4	67.6	<0.05	0.08	<0.2	0.008	0.08
G284291		120	17.3	0.4	<0.002	1.16	1.04	1.4	3	0.5	81.5	0.18	0.05	0.5	0.026	0.02
G284292		230	1.9	1.4	<0.002	0.03	0.06	0.3	2	<0.2	86.2	<0.05	<0.05	<0.2	<0.005	<0.02
G284293		90	27.2	0.5	<0.002	0.63	1.34	0.4	2	0.2	51.4	<0.05	0.05	<0.2	0.006	0.05
G284294		110	28.3	3.0	<0.002	3.12	1.50	0.6	3	0.3	55.2	<0.05	0.11	<0.2	0.018	0.09
G284295		1660	2.2	148.5	<0.002	2.79	0.45	14.8	2	4.9	54.1	2.23	<0.05	4.5	1.145	1.30
G284296		2570	2.9	73.6	<0.002	2.48	0.24	11.3	2	2.1	126.0	1.48	0.05	3.4	0.791	0.41
G284297		2240	2.8	62.3	<0.002	0.14	0.13	10.6	2	1.7	126.0	1.78	<0.05	3.4	1.040	0.29
G284298		2130	61.0	149.0	<0.002	0.96	1.02	12.1	2	7.0	121.5	1.81	0.15	3.7	0.887	1.85
G284299		2080	2.7	98.3	<0.002	0.43	0.10	11.4	2	3.6	142.0	2.37	0.08	3.4	1.205	0.98
G284300		230	14.2	31.3	0.015	>10.0	4.39	1.9	7	3.0	88.6	0.21	0.22	0.8	0.092	0.29
G284301		1970	2.2	105.0	<0.002	0.97	0.33	12.5	2	2.7	120.5	2.38	0.05	3.7	1.185	0.90
G284302		2080	78.9	113.5	0.003	4.79	1.89	13.6	3	2.5	76.6	2.53	<0.05	3.9	1.250	1.33
G284303		2270	2110	96.5	0.180	7.94	25.1	5.0	12	1.4	94.2	0.33	0.16	1.0	0.125	1.58
G284304		2420	27.6	106.5	0.329	>10.0	21.1	7.4	19	1.2	29.7	0.73	0.46	4.4	0.289	2.48
G284305		2820	32.5	122.0	0.385	>10.0	23.5	8.5	22	1.5	35.2	0.85	0.51	5.1	0.338	2.90
G284306		80	16.1	1.1	0.003	2.60	0.46	0.4	3	0.4	68.9	<0.05	0.06	<0.2	<0.005	0.04
G284307		60	1.3	1.3	<0.002	0.06	0.11	0.4	2	<0.2	103.5	<0.05	0.07	<0.2	0.007	0.03
G284308		150	1.2	2.4	<0.002	0.09	0.06	0.6	3	<0.2	133.5	0.05	0.06	0.2	0.018	<0.02
G284309		740	2.4	116.5	<0.002	0.21	4.36	6.0	1	1.7	64.2	1.37	0.05	4.3	0.345	0.64
G284310		30	9.5	2.7	<0.002	6.98	43.3	0.9	5	0.6	41.2	<0.05	0.47	0.3	<0.005	0.03

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107518

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
G284275		15.0	25	10.1	4.6	36	6.5	
G284276		4.9	20	3.1	3.2	6	2.0	
G284277		2.9	12	1.0	3.0	73	1.0	
G284278		18.1	14	0.8	6.6	512	1.1	
G284279		0.9	6	203	7.4	141	3.0	2.65
G284280		21.0	83	19.7	6.2	41	28.1	
G284281		20.7	65	8.0	9.7	36	11.3	
G284282		16.3	38	7.1	5.1	15	7.4	
G284283		13.7	29	4.9	9.7	131	3.3	
G284284		36.8	34	10.3	9.6	116	6.3	
G284285		4.6	10	48.6	6.4	12	2.0	
G284286		0.3	7	1.0	5.8	153	4.9	
G284287		0.5	9	1.3	6.1	1360	11.9	
G284288		0.6	9	4.6	7.2	596	9.9	
G284289		0.4	16	3.8	8.3	652	6.5	
G284290		0.2	12	0.8	5.7	891	3.7	
G284291		0.7	15	1.3	8.5	149	12.0	
G284292		0.6	1	0.2	1.3	17	<0.5	
G284293		0.1	9	1.1	3.9	121	2.5	
G284294		0.3	10	0.8	6.0	94	4.0	
G284295		0.4	162	3.3	18.8	46	15.7	
G284296		0.3	116	0.4	17.2	47	10.4	
G284297		0.3	120	0.2	17.1	82	9.8	
G284298		0.4	134	1.4	18.2	232	14.2	
G284299		0.3	130	0.5	18.2	51	10.0	
G284300		0.5	18	63.0	7.6	31	7.1	
G284301		0.8	138	1.0	18.5	42	26.3	
G284302		1.1	160	2.5	17.2	259	35.2	
G284303		14.2	808	8.2	14.0	5100	52.4	
G284304		32.4	1290	17.2	15.8	68	87.1	
G284305		39.1	1500	19.8	18.4	78	102.0	
G284306		2.9	11	0.5	3.2	133	0.7	
G284307		0.1	<1	0.3	5.3	57	1.5	
G284308		0.1	<1	0.1	3.9	3	3.0	
G284309		0.7	57	13.5	11.2	24	25.6	
G284310		0.2	3	62.8	3.4	10	1.5	13.40

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107518

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE VA09107517

Project: RAU

P.O. No.: Batch 66

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107517

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
G284239		7.22	<0.01	0.52	0.13	11	140	0.18	2.26	19.35	2.72	3.02	0.7	4	0.19	3.4
G284240		7.78	<0.01	0.21	0.06	33	70	0.13	0.57	19.25	2.03	2.27	0.5	1	0.12	2.0
G284241		2.96	0.54	0.21	0.98	>10000	170	0.26	186.5	0.82	1.87	30.5	2.6	11	0.49	55.8
G284242		5.62	0.03	0.08	6.86	3470	1730	1.57	6.09	0.12	0.17	48.6	0.9	83	6.59	5.4
G284243		4.30	0.76	0.53	0.76	>10000	350	0.18	171.5	0.59	1.25	16.25	4.2	8	0.55	14.8
G284244		1.92	1.59	1.03	1.26	>10000	130	0.16	697	0.62	0.72	14.20	3.9	15	2.82	9.1
G284245		2.18	1.29	0.46	0.25	>10000	20	0.13	43.8	0.61	0.79	11.90	2.3	<1	0.16	7.9
G284246		3.52	<0.01	<0.01	0.06	148	10	0.05	0.64	18.95	0.06	1.43	0.8	1	0.12	3.6
G284247		7.76	1.75	2.18	0.22	>10000	20	0.09	185.5	0.62	1.15	37.4	1.3	<1	0.18	9.5
G284248		7.80	3.00	4.77	0.19	>10000	20	0.11	152.0	0.74	1.26	40.6	1.2	<1	0.33	5.0
G284249		3.86	0.37	1.64	0.21	>10000	30	0.13	88.6	0.70	2.32	11.90	2.3	<1	0.22	6.4
G284250		1.64	0.49	2.15	0.30	>10000	20	0.23	26.0	0.80	3.60	21.1	2.1	<1	0.11	12.3
G284251		4.62	3.62	5.05	0.27	>10000	30	0.15	407	0.77	4.01	30.9	1.3	<1	0.10	12.3
G284252		4.00	0.12	1.75	0.13	>10000	10	0.18	35.1	11.40	2.70	16.80	1.0	<1	0.17	7.8
G284253		0.28	1.58	1.53	0.11	>10000	20	<0.05	344	12.65	0.87	59.6	1.6	6	0.67	17.1
G284254		2.92	0.52	1.34	0.19	>10000	20	0.25	386	0.73	4.42	35.3	2.1	<1	0.06	6.9
G284255		0.50	0.50	0.57	0.32	>10000	10	0.13	54.5	0.64	2.54	17.85	2.1	<1	0.12	5.7
G284256		1.16	0.14	0.82	0.29	>10000	10	0.15	71.5	7.90	3.59	26.0	1.5	<1	0.20	6.1
G284257		3.00	1.04	2.44	0.32	7680	10	0.17	35.6	11.95	4.56	17.20	1.5	<1	0.29	7.8
G284258		3.10	0.32	6.63	0.27	>10000	30	0.15	111.5	1.30	3.21	21.6	2.1	<1	0.20	8.9
G284259		6.60	0.67	0.84	0.05	2440	10	0.05	58.9	15.05	0.93	13.55	0.8	<1	0.20	2.2
G284260		3.76	<0.01	0.02	0.08	51	20	0.09	0.42	18.70	0.07	1.91	0.9	1	0.18	1.2
G284261		9.42	0.26	0.98	0.03	1920	10	<0.05	130.0	14.65	1.12	7.98	0.7	1	0.09	3.5
G284262		6.30	0.99	1.80	0.03	>10000	10	<0.05	51.5	11.80	0.98	13.65	0.7	<1	0.26	15.7
G284263		0.30	4.87	0.16	0.11	>10000	30	<0.05	459	8.48	0.07	38.1	1.6	14	0.73	38.6
G284264		6.78	0.01	0.10	0.07	56	170	0.17	0.90	18.35	0.46	1.95	0.5	5	0.08	1.3
G284265		7.72	<0.01	0.11	0.07	24	240	0.20	0.26	18.45	0.78	2.17	0.5	4	0.08	0.5
G284266		7.28	<0.01	0.40	0.04	23	110	0.14	1.13	18.35	1.59	2.50	0.7	4	0.09	2.0
G284267		7.74	<0.01	0.11	0.04	5	210	0.21	0.07	19.35	0.77	2.58	0.4	1	0.08	0.7
G284268		3.64	<0.01	0.07	0.04	5	50	0.23	0.09	19.85	0.23	2.75	0.5	1	0.08	0.6
G284269		8.76	<0.01	0.45	0.45	33	120	0.42	1.07	19.45	3.05	4.88	1.5	22	0.67	4.4
G284270		8.06	<0.01	0.21	0.81	39	240	0.61	1.30	20.0	0.35	6.64	2.2	32	1.66	2.8
G284271		2.10	0.66	2.61	0.05	3300	30	0.18	101.5	9.59	6.93	17.90	2.4	2	0.28	10.5
G284272		5.92	0.01	0.39	0.09	555	90	0.23	1.31	20.4	4.38	5.02	0.6	3	0.15	1.4
G284273		7.40	<0.01	0.26	0.05	69	10	0.13	4.67	20.7	1.28	6.76	0.9	2	0.13	2.1
G284274		8.54	0.01	0.28	0.12	99	60	0.14	70.8	17.15	1.06	7.67	3.0	2	0.41	37.0

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107517

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284239		0.34	0.35	0.06	0.1	<0.01	0.025	0.06	1.7	2.3	12.95	458	1.22	<0.01	0.4	4.9
G284240		0.76	0.23	<0.05	<0.1	<0.01	0.022	0.02	1.4	2.9	13.00	513	0.65	<0.01	0.2	2.0
G284241		46.3	4.43	0.50	0.2	<0.01	0.272	0.37	12.4	2.1	0.33	1810	0.42	<0.01	1.6	10.8
G284242		6.10	23.4	0.12	1.4	<0.01	0.094	3.89	31.8	28.5	0.96	323	0.39	0.06	37.5	8.6
G284243		48.9	4.63	0.59	0.3	<0.01	0.126	0.30	7.8	1.6	0.35	2430	0.61	<0.01	1.6	18.5
G284244		49.9	8.94	0.52	0.5	0.01	0.052	0.43	6.0	1.2	0.23	3100	0.55	<0.01	2.6	16.8
G284245		>50	1.32	0.47	0.1	<0.01	0.142	0.03	7.2	0.4	0.16	3040	1.17	<0.01	0.5	12.9
G284246		0.46	0.18	<0.05	<0.1	<0.01	<0.005	0.03	0.7	0.9	12.85	178	0.09	<0.01	0.2	1.6
G284247		>50	1.36	0.50	0.1	0.02	0.224	0.03	26.4	0.4	0.16	2180	0.36	<0.01	0.4	5.8
G284248		>50	1.15	0.50	0.1	0.01	0.180	0.04	28.1	0.5	0.16	1850	0.31	<0.01	0.4	5.6
G284249		>50	1.27	0.51	0.1	0.01	0.243	0.04	5.5	0.5	0.14	2970	1.16	<0.01	0.5	8.6
G284250		>50	1.39	0.48	0.1	0.01	0.216	0.02	9.5	0.4	0.12	2440	0.28	<0.01	0.4	10.1
G284251		>50	1.20	0.54	0.1	0.02	0.167	0.02	19.7	0.4	0.14	1790	0.33	<0.01	0.4	6.8
G284252		24.1	0.40	0.23	<0.1	<0.01	0.211	0.01	7.4	1.4	6.67	1650	0.30	<0.01	0.2	3.8
G284253		16.50	0.87	0.18	0.1	<0.01	0.099	0.06	39.9	1.7	7.02	2130	5.66	<0.01	0.4	7.2
G284254		>50	0.93	0.54	0.1	0.01	0.171	0.01	18.1	0.4	0.13	1940	0.17	<0.01	0.4	6.9
G284255		>50	1.30	0.51	0.2	<0.01	0.099	0.02	8.5	0.4	0.17	3610	0.68	<0.01	0.4	7.8
G284256		35.5	0.99	0.29	0.1	<0.1	0.143	0.03	12.8	1.0	4.60	3460	0.19	<0.01	0.3	5.4
G284257		19.65	1.75	0.18	0.2	0.01	0.233	0.04	7.7	1.7	6.79	4100	0.21	<0.01	0.6	4.6
G284258		>50	1.72	0.48	0.2	0.01	0.283	0.05	9.4	0.7	0.58	5830	0.17	<0.01	0.3	7.4
G284259		13.80	0.47	0.11	<0.1	<0.1	0.093	0.02	7.2	1.5	8.54	4650	0.19	<0.01	0.2	1.5
G284260		0.43	0.27	<0.05	<0.1	<0.01	0.005	0.04	0.9	1.2	12.60	188	0.07	<0.01	0.3	1.6
G284261		11.40	0.47	0.12	<0.1	<0.1	0.120	0.01	3.5	1.6	8.36	4370	0.24	<0.01	0.1	<0.2
G284262		19.60	0.52	0.21	<0.1	<0.1	0.192	0.02	6.3	1.4	6.02	5310	0.12	<0.01	0.2	<0.2
G284263		23.0	1.00	0.27	0.2	<0.1	0.068	0.07	22.7	1.7	4.58	1440	10.55	<0.01	1.3	11.9
G284264		0.38	0.28	0.05	<0.1	<0.01	0.007	0.03	1.2	4.0	11.90	416	0.38	0.01	0.2	<0.2
G284265		0.18	0.33	0.10	<0.1	<0.01	0.011	0.03	1.3	4.2	12.00	449	0.87	0.01	0.3	<0.2
G284266		0.69	0.27	0.06	<0.1	0.01	0.011	0.01	1.5	3.8	11.85	758	0.16	0.01	0.1	<0.2
G284267		0.33	0.24	0.13	<0.1	0.01	0.005	0.02	1.6	2.5	13.05	774	0.16	0.01	0.1	<0.2
G284268		0.31	0.32	0.27	<0.1	<0.01	0.006	0.01	1.7	2.7	13.30	667	0.12	0.01	0.1	0.4
G284269		0.80	2.08	0.15	0.3	0.01	0.007	0.10	2.8	2.1	12.15	907	5.13	0.02	3.1	12.9
G284270		0.64	3.18	0.16	0.5	0.01	0.008	0.26	3.8	3.7	12.30	786	9.95	0.04	3.8	28.0
G284271		24.5	0.46	0.30	<0.1	0.01	0.036	0.02	12.3	1.5	5.45	622	0.59	0.01	0.2	21.6
G284272		1.31	0.59	0.05	<0.1	0.01	0.107	0.02	2.8	1.7	12.25	1380	1.26	0.01	0.3	0.8
G284273		1.79	0.34	0.06	<0.1	<0.01	0.017	0.01	3.4	2.0	13.00	857	0.29	0.01	0.1	1.2
G284274		6.87	0.87	0.10	0.1	<0.01	0.024	0.03	3.4	2.9	11.25	1140	1.27	0.02	0.2	12.4

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107517

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284239		170	40.1	4.0	0.002	0.26	0.52	0.6	3	0.9	59.4	<0.05	<0.05	0.3	0.009	0.07
G284240		60	55.5	2.7	0.002	0.78	0.23	0.4	3	0.7	66.4	<0.05	<0.05	<0.2	<0.005	0.04
G284241		380	4.9	14.6	0.002	0.18	14.60	1.6	7	0.7	52.2	0.08	0.32	1.5	0.033	0.33
G284242		330	1.1	196.5	<0.002	0.53	2.52	5.7	2	5.6	73.8	2.36	0.05	9.5	0.511	1.01
G284243		670	12.9	15.7	0.002	0.10	22.6	1.5	8	1.0	27.4	0.10	0.27	1.8	0.035	0.31
G284244		360	26.7	51.8	<0.002	0.07	31.8	1.1	6	2.1	27.0	0.09	0.67	0.8	0.055	0.37
G284245		310	24.5	3.5	<0.002	0.06	5.70	0.7	7	1.1	28.2	<0.05	0.21	0.5	0.008	0.17
G284246		290	1.3	1.2	<0.002	0.01	0.08	0.3	2	<0.2	46.5	<0.05	<0.05	<0.2	<0.005	<0.02
G284247		290	343	4.8	0.002	0.07	8.54	0.8	8	5.1	22.9	<0.05	0.43	0.3	0.005	0.29
G284248		240	136.0	6.3	0.004	0.07	6.52	0.7	7	3.0	28.0	<0.05	0.45	0.3	0.006	0.17
G284249		300	70.5	4.3	0.002	0.07	4.55	0.7	4	1.5	27.9	0.05	0.12	0.2	0.005	0.16
G284250		450	83.7	3.2	<0.002	0.06	5.89	1.4	6	1.9	20.8	<0.05	0.19	0.4	0.006	0.17
G284251		330	448	2.7	<0.002	0.08	14.50	0.9	12	2.5	19.3	<0.05	0.76	0.4	0.006	0.15
G284252		180	96.5	0.6	<0.002	0.04	2.70	0.8	4	0.9	36.8	<0.05	0.14	<0.2	<0.005	0.05
G284253		120	13.7	7.8	0.006	>10.0	22.8	0.5	5	1.2	85.5	<0.05	0.86	0.5	0.007	0.10
G284254		260	42.9	1.7	<0.002	0.08	15.40	1.2	7	0.8	17.1	<0.05	0.71	0.8	<0.005	0.15
G284255		450	20.8	3.0	<0.002	0.06	4.53	0.8	4	1.0	17.5	<0.05	0.27	0.4	0.007	0.20
G284256		270	51.4	4.1	<0.002	0.26	5.99	1.2	5	1.6	42.6	<0.05	0.24	0.3	0.005	0.14
G284257		610	191.0	5.7	<0.002	4.83	3.80	0.8	5	3.8	84.5	<0.05	0.16	0.5	0.014	0.07
G284258		450	228	6.4	0.006	1.45	5.44	1.0	5	2.5	18.4	<0.05	0.31	0.5	0.008	0.32
G284259		160	29.3	2.1	0.002	8.31	2.40	0.4	3	0.8	107.5	<0.05	0.10	<0.2	<0.005	0.05
G284260		240	1.5	1.6	<0.002	0.01	0.06	0.3	2	<0.2	47.6	<0.05	<0.05	0.2	<0.005	<0.02
G284261		90	35.3	0.9	0.002	8.68	4.32	0.3	3	0.6	124.5	<0.05	0.17	<0.2	<0.005	0.04
G284262		100	45.0	1.8	0.003	>10.0	4.69	0.3	3	1.6	91.0	<0.05	0.18	<0.2	<0.005	0.12
G284263		60	6.1	7.3	0.002	>10.0	19.90	0.4	9	1.9	54.3	0.08	1.32	0.3	0.008	0.16
G284264		100	17.0	2.2	0.002	0.33	0.33	0.3	2	0.4	63.1	<0.05	0.07	<0.2	<0.005	0.05
G284265		100	16.2	2.8	0.002	0.04	0.26	0.4	2	0.6	65.8	<0.05	0.06	0.2	<0.005	0.03
G284266		60	63.3	1.1	<0.002	0.52	0.51	0.2	2	0.4	66.3	<0.05	0.09	<0.2	<0.005	0.04
G284267		30	14.4	1.4	<0.002	0.06	0.19	0.2	1	<0.2	86.6	<0.05	<0.05	<0.2	<0.005	0.02
G284268		30	12.8	1.3	<0.002	0.07	0.15	0.3	2	<0.2	90.5	<0.05	<0.05	<0.2	<0.005	0.02
G284269		750	229	12.3	0.053	0.63	1.15	1.1	3	0.6	89.2	0.17	<0.05	0.7	0.079	0.17
G284270		1290	29.6	26.9	0.104	0.43	1.48	1.9	3	0.9	90.0	0.23	<0.05	1.2	0.102	0.27
G284271		50	262	2.1	0.008	>10.0	6.01	0.5	13	0.5	43.1	<0.05	0.40	0.3	<0.005	0.24
G284272		190	143.5	2.5	0.015	1.14	1.75	0.4	2	0.5	67.5	<0.05	<0.05	0.2	0.005	0.16
G284273		110	70.0	1.4	0.002	1.87	0.67	0.4	2	0.2	79.0	<0.05	<0.05	<0.2	<0.005	0.05
G284274		510	78.0	4.1	0.005	6.54	5.50	0.9	4	0.3	79.4	<0.05	0.25	0.2	<0.005	0.18

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107517

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
G284239		3.3	14	0.8	1.7	640	3.1	
G284240		1.8	7	0.4	1.1	505	1.1	
G284241		3.8	17	155.5	15.1	250	7.5	3.68
G284242		1.2	89	6.9	8.3	41	58.0	
G284243		2.4	14	66.8	9.8	671	14.7	2.21
G284244		3.0	24	36.5	12.0	461	22.5	2.67
G284245		2.2	11	4.4	9.9	348	5.2	2.70
G284246		0.7	2	0.1	1.0	16	0.6	
G284247		2.0	11	199.5	6.2	707	3.6	2.78
G284248		2.6	10	376	7.7	506	4.2	4.11
G284249		1.8	11	97.5	14.5	551	3.9	2.86
G284250		2.0	17	6.0	13.4	676	5.3	2.94
G284251		1.7	12	85.8	11.3	864	4.7	2.90
G284252		0.8	9	17.4	14.3	694	1.6	1.26
G284253		0.6	6	191.0	7.5	142	3.1	2.31
G284254		1.8	13	74.8	25.8	578	3.9	2.92
G284255		1.1	10	149.0	12.8	519	8.0	2.42
G284256		0.9	9	110.5	17.7	671	4.7	1.38
G284257		1.1	11	72.3	11.5	1030	8.6	
G284258		1.6	11	530	18.3	1240	8.4	1.44
G284259		0.3	5	104.5	7.5	167	2.2	
G284260		0.6	3	0.8	1.0	17	<0.5	
G284261		0.3	3	216	6.2	298	1.1	
G284262		1.0	2	370	7.6	219	1.2	1.18
G284263		0.7	5	35.8	4.2	12	4.6	3.49
G284264		1.6	7	0.9	1.0	147	1.3	
G284265		1.6	8	1.2	1.1	210	1.3	
G284266		3.1	7	0.5	1.4	459	0.8	
G284267		1.2	12	0.5	1.4	255	0.7	
G284268		1.3	12	0.5	1.5	67	0.6	
G284269		13.2	108	7.5	4.2	852	11.1	
G284270		20.6	169	10.3	6.1	583	16.2	
G284271		2.4	10	1.1	2.2	1610	0.9	
G284272		3.6	15	1.4	2.8	1180	1.8	
G284273		2.3	9	0.6	2.4	311	1.0	
G284274		6.4	18	2.4	4.5	277	2.4	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107517

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 14-OCT-2009
Account: RCM

CERTIFICATE VA09107516

Project: RAU

P.O. No.: Batch 64

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09107516

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G284167		5.12	0.06	0.38	0.05	340	60	0.06	34.3	15.10	1.30	9.09	0.6	1	0.32	25.8
G284168		6.34	0.02	0.15	0.22	55	90	0.24	2.51	18.50	0.41	4.78	1.0	3	0.39	2.3
G284169		5.06	0.53	9.44	0.80	>10000	300	0.29	1480	0.55	0.97	8.82	3.1	9	0.91	24.1
G284170		5.74	0.12	5.83	3.71	2360	1030	0.69	440	0.20	0.54	13.15	2.2	44	5.15	26.9
G284171		5.24	0.11	1.33	3.58	2820	830	0.86	294	0.15	2.51	15.75	5.2	39	6.80	35.0
G284172		2.34	0.01	0.31	0.59	2950	30	0.24	284	6.95	3.73	23.5	5.7	3	3.36	24.4
G284173		3.52	<0.01	0.02	0.08	12	30	0.09	1.39	19.25	0.06	1.58	0.8	2	0.19	2.5
G284174		0.90	0.01	0.23	6.95	2930	1480	2.63	70.2	2.58	3.35	21.1	4.2	65	10.05	12.6
G284175		4.68	<0.01	0.39	0.19	1040	20	0.35	847	12.35	2.57	17.05	19.6	1	0.43	48.0
G284176		1.96	0.01	0.44	2.44	1375	420	0.98	963	1.10	5.39	46.7	10.4	15	9.32	42.5
G284177		0.28	1.54	1.72	0.10	>10000	30	0.07	347	11.75	0.82	55.8	1.5	7	0.61	16.7
G284178		6.62	0.02	0.38	3.74	4750	870	0.79	4.88	0.46	10.75	90.4	21.9	41	6.25	36.4
G284179		7.94	0.01	0.01	0.06	33	40	<0.05	0.37	34.1	0.18	1.51	1.0	2	<0.05	2.9
G284180		4.00	0.05	0.75	1.51	>10000	530	0.44	2.92	1.24	18.25	65.9	23.7	4	0.65	31.8
G284181		1.24	0.06	0.67	1.39	>10000	190	0.49	7.92	0.49	8.63	47.7	20.6	24	0.88	123.5
G284182		3.72	0.03	0.20	3.30	>10000	530	0.73	2.28	0.32	6.47	55.8	15.1	57	2.39	27.3
G284183		3.72	0.04	0.19	0.69	>10000	130	0.25	8.01	0.46	8.50	29.9	17.6	4	0.31	39.6
G284184		1.78	0.04	0.18	0.63	>10000	130	0.23	6.74	0.41	8.23	27.9	17.5	3	0.26	37.5
G284185		3.18	0.07	0.20	0.55	>10000	120	0.25	21.1	0.59	9.48	36.9	11.4	2	0.11	33.8
G284186		4.10	0.12	0.15	1.32	>10000	170	0.40	12.30	0.59	3.13	26.9	11.5	9	0.44	32.3
G284187		4.82	0.07	0.13	6.36	7830	1140	1.59	8.11	0.26	0.45	37.1	4.0	66	4.22	7.5
G284188		4.34	0.02	0.18	0.37	161	210	0.26	1.79	18.70	0.91	7.06	1.2	6	0.53	2.3
G284189		7.94	0.02	0.26	0.29	283	190	0.24	3.63	17.95	2.55	6.21	1.2	5	0.44	3.2
G284190		8.14	0.03	0.44	0.10	303	90	0.17	14.95	18.00	1.17	5.41	0.8	3	0.27	2.6
G284191		7.92	0.09	2.22	0.11	180	160	0.19	9.91	18.85	7.52	5.29	1.5	4	0.29	5.3
G284192		6.74	0.04	0.91	0.12	70	670	0.29	2.27	21.2	5.31	5.25	1.0	3	0.39	3.3
G284193		6.32	0.02	2.22	0.09	154	50	0.24	4.32	18.40	14.80	5.65	2.0	3	0.37	7.8
G284194		6.92	0.03	3.01	0.21	280	170	0.23	7.21	17.45	12.25	11.30	1.5	4	0.32	8.3
G284195		7.74	1.37	3.53	0.87	>10000	140	0.29	46.8	15.65	16.45	13.30	1.9	11	0.77	19.8
G284196		3.72	<0.01	0.04	0.07	97	20	0.07	0.39	19.90	0.20	1.55	0.9	4	0.13	2.8
G284197		5.26	0.01	0.81	0.75	287	270	0.43	1.56	16.80	7.17	11.50	3.7	10	1.34	6.6
G284198		2.10	0.01	1.19	0.84	392	50	0.45	1.08	15.65	18.65	11.45	6.1	14	2.71	6.6
G284199		7.56	0.01	1.16	1.01	112	70	0.62	0.72	14.90	11.65	14.45	8.6	13	2.07	9.2
G284200		0.28	6.02	0.27	0.12	>10000	40	0.08	464	8.50	0.08	36.8	1.7	13	0.76	39.4
G284201		5.08	<0.01	0.85	7.85	162.0	270	2.51	0.84	4.45	12.00	97.0	15.4	56	10.20	18.3
G284202		2.88	<0.01	0.65	6.84	90.3	400	2.06	1.03	6.53	6.80	98.3	18.8	44	9.86	17.2

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Project: RAU

Finalized Date: 14-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107516

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284167		10.25	0.57	0.16	<0.1	1.5	0.166	0.02	3.5	1.7	8.84	2730	0.24	0.01	0.3	1.9
G284168		1.61	1.19	0.06	0.1	0.01	0.034	0.07	3.2	3.0	11.20	916	0.18	0.01	1.2	3.6
G284169		42.8	7.19	0.57	0.6	0.1	0.135	0.46	4.6	2.3	2.58	856	1.05	0.02	13.0	8.3
G284170		28.2	19.30	0.26	1.9	<0.01	0.156	2.26	7.1	10.5	3.07	567	0.50	0.07	13.1	17.5
G284171		33.5	18.55	0.37	1.3	<0.01	0.132	2.25	8.1	9.9	2.34	1400	0.53	0.04	10.1	34.8
G284172		30.1	4.35	0.30	0.3	<0.1	0.076	0.24	9.0	3.2	5.46	5330	0.54	0.01	1.2	21.2
G284173		0.48	0.30	0.05	<0.1	<0.01	<0.005	0.04	0.7	1.3	12.10	194	0.18	0.01	0.3	2.4
G284174		17.10	40.1	0.23	2.9	<0.01	0.080	2.48	9.4	14.8	2.08	1790	0.38	0.08	28.8	21.8
G284175		21.6	1.69	0.25	0.1	<0.1	0.019	0.06	6.3	1.9	6.33	4570	0.25	0.01	0.3	48.4
G284176		37.1	13.90	0.50	1.7	<0.1	<0.005	1.30	20.2	10.0	2.91	5670	0.73	0.03	11.6	55.9
G284177		16.55	0.99	0.22	0.1	<0.1	0.090	0.06	34.7	1.9	6.74	2190	5.81	0.01	0.7	6.5
G284178		32.3	11.30	0.38	0.8	<0.01	0.093	2.05	43.1	12.5	0.57	19050	0.62	0.04	15.1	86.4
G284179		0.27	0.20	<0.05	<0.1	<0.01	<0.005	0.03	1.4	0.3	0.44	169	0.11	0.01	0.3	<0.2
G284180		45.2	5.31	0.49	0.3	<0.1	0.053	0.66	37.9	6.6	0.20	7980	1.92	0.02	5.2	112.5
G284181		50.0	5.05	0.43	0.1	<0.1	0.227	0.31	25.6	1.6	0.21	4110	1.47	0.01	2.2	108.5
G284182		39.7	9.89	0.45	0.4	<0.01	0.095	1.68	30.3	5.9	0.37	3210	0.60	0.03	6.4	77.6
G284183		>50	2.30	0.42	0.1	<0.01	0.154	0.20	15.8	0.9	0.12	3460	0.57	0.01	1.3	61.3
G284184		>50	2.04	0.44	0.1	<0.1	0.139	0.17	15.1	0.8	0.10	3520	0.51	0.01	1.1	60.5
G284185		>50	1.74	0.44	0.1	<0.1	0.172	0.05	16.8	0.4	0.08	3190	0.71	<0.01	0.5	44.5
G284186		49.3	3.66	0.44	0.2	0.01	0.104	0.39	12.6	1.9	0.15	2650	0.54	0.01	2.0	46.0
G284187		13.45	22.2	0.26	0.8	<0.01	0.110	3.17	22.1	22.7	0.50	522	0.37	0.09	20.1	20.2
G284188		1.62	1.60	0.06	0.2	<0.01	0.035	0.13	4.9	4.0	11.35	905	0.16	0.02	2.1	4.1
G284189		3.59	1.52	0.08	0.2	<0.01	0.055	0.10	3.5	3.2	10.80	1270	0.13	0.02	1.6	6.2
G284190		4.17	0.68	0.09	0.1	<0.1	0.050	0.03	3.2	2.9	11.05	1160	0.08	0.01	0.6	2.3
G284191		2.48	0.81	0.07	0.1	0.01	0.047	0.04	3.3	3.5	11.50	1310	0.09	0.01	0.7	23.0
G284192		1.57	0.83	0.06	0.1	0.03	0.024	0.05	3.2	3.7	9.15	3010	0.37	0.04	0.4	5.4
G284193		3.94	0.85	0.08	0.1	<0.1	0.039	0.03	3.4	3.0	10.05	3890	0.26	0.01	0.5	17.8
G284194		6.98	1.58	0.12	0.1	0.06	0.311	0.08	4.6	3.2	9.44	4370	0.17	0.01	1.0	5.8
G284195		7.52	5.10	0.13	0.5	0.03	0.305	0.38	4.8	5.6	8.40	3750	0.22	0.02	3.9	23.5
G284196		0.50	0.33	0.06	<0.1	<0.01	0.006	0.03	0.7	1.3	12.60	251	0.08	0.01	0.3	1.9
G284197		2.76	2.61	0.08	0.4	0.07	0.042	0.27	8.6	3.8	9.91	1960	0.39	0.01	4.1	12.9
G284198		4.93	2.65	0.08	0.5	0.14	0.029	0.34	8.7	2.0	9.70	1840	0.87	<0.01	4.7	35.7
G284199		6.07	3.52	0.10	0.5	0.03	0.019	0.45	9.6	1.8	9.14	1500	0.31	0.01	5.6	26.8
G284200		24.1	1.00	0.25	0.1	<0.1	0.088	0.07	23.4	1.5	4.76	1450	10.85	0.01	1.3	14.7
G284201		5.49	22.9	0.18	0.9	0.02	0.111	3.50	50.5	14.2	2.16	1050	0.29	0.04	41.8	78.8
G284202		7.58	17.40	0.21	0.9	0.01	0.110	3.35	50.3	9.2	3.17	714	0.25	0.04	38.2	77.8

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 14-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107516

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284167		40	18.0	2.9	<0.002	8.22	2.53	1.0	5	0.5	96.7	<0.05	0.10	<0.2	<0.005	0.26
G284168		100	25.2	6.9	0.007	1.46	1.08	0.8	3	0.5	70.4	0.06	<0.05	0.2	0.024	0.28
G284169		1240	46.4	33.9	<0.002	0.29	21.2	1.1	10	3.4	23.3	0.18	1.70	4.3	0.061	1.30
G284170		860	15.3	139.0	0.002	0.31	5.66	4.8	4	7.3	39.9	0.68	0.67	6.1	0.203	1.02
G284171		620	6.1	151.5	0.004	0.08	5.39	3.4	4	7.1	18.1	0.47	0.35	4.9	0.133	1.25
G284172		330	7.4	50.9	<0.002	0.07	5.97	3.3	4	1.4	42.3	0.06	0.23	3.5	0.021	0.48
G284173		260	1.6	1.8	<0.002	0.02	0.08	0.4	2	<0.2	52.3	<0.05	<0.05	<0.2	<0.005	<0.02
G284174		1070	3.1	147.5	<0.002	0.03	2.39	7.0	3	18.3	33.3	1.13	0.08	6.3	0.210	1.32
G284175		130	10.4	7.5	<0.002	0.24	8.90	1.8	5	1.2	54.2	<0.05	0.50	0.2	0.006	0.36
G284176		530	7.4	145.5	<0.002	0.06	12.95	3.2	4	3.4	21.9	0.66	0.67	6.7	0.116	1.87
G284177		110	13.9	7.4	0.004	>10.0	20.7	0.5	6	1.1	87.6	<0.05	0.77	0.4	0.009	0.10
G284178		320	17.3	70.8	<0.002	0.06	2.49	4.8	2	1.2	20.9	0.74	<0.05	7.4	0.246	2.95
G284179		50	1.6	0.8	<0.002	0.02	0.29	0.4	3	<0.2	155.5	<0.05	<0.05	<0.2	0.005	<0.02
G284180		580	127.5	17.3	<0.002	0.03	12.50	4.3	3	0.6	17.3	0.20	<0.05	4.0	0.039	1.14
G284181		920	735	9.1	<0.002	0.02	12.65	4.8	3	0.3	11.8	0.10	0.35	2.1	0.040	1.28
G284182		730	49.4	47.3	<0.002	0.03	2.85	4.8	3	0.9	12.2	0.28	0.07	4.5	0.142	0.71
G284183		490	7.2	5.6	<0.002	0.04	5.65	1.4	4	0.4	15.9	0.05	0.05	2.9	0.020	1.01
G284184		470	4.0	4.5	<0.002	0.03	4.71	1.3	4	0.3	14.8	<0.05	<0.05	2.8	0.016	0.91
G284185		540	6.3	1.5	<0.002	0.03	6.61	1.6	4	0.5	20.8	<0.05	0.09	2.6	0.005	0.67
G284186		520	62.7	10.0	<0.002	0.04	3.39	2.3	4	0.4	22.5	0.08	0.09	2.1	0.038	0.36
G284187		420	4.3	87.1	0.002	0.20	3.38	7.1	2	3.2	31.1	0.94	<0.05	9.0	0.277	0.54
G284188		170	37.2	12.5	0.002	1.12	0.81	1.4	3	0.6	57.9	0.11	<0.05	0.4	0.041	0.18
G284189		190	48.6	10.9	0.004	3.49	0.98	0.9	2	0.6	63.3	0.09	0.09	0.3	0.032	0.18
G284190		110	72.9	4.1	<0.002	4.52	1.10	0.6	3	0.7	65.8	<0.05	0.11	<0.2	0.010	0.10
G284191		120	338	5.0	0.002	2.47	1.73	0.8	2	0.8	82.6	<0.05	0.06	<0.2	0.013	0.10
G284192		110	327	4.5	0.019	0.95	5.32	1.0	2	0.7	90.2	<0.05	<0.05	<0.2	0.007	0.87
G284193		100	978	4.7	0.029	2.23	7.39	1.0	2	0.9	71.2	<0.05	<0.05	<0.2	0.007	0.75
G284194		220	678	4.8	0.020	4.56	6.29	1.0	3	0.5	128.0	0.05	<0.05	<0.2	0.017	0.57
G284195		490	486	21.4	0.015	3.95	12.40	2.2	3	1.3	144.5	0.22	0.06	0.4	0.077	0.75
G284196		250	10.0	1.2	<0.002	0.05	0.14	0.3	2	<0.2	49.1	<0.05	<0.05	<0.2	<0.005	<0.02
G284197		280	362	22.4	0.033	2.19	12.75	2.1	2	0.5	53.4	0.24	<0.05	0.8	0.079	2.23
G284198		330	399	29.8	0.109	4.48	31.1	2.4	3	1.2	50.4	0.31	0.06	1.0	0.097	5.41
G284199		630	566	31.3	0.036	3.44	6.39	2.5	3	0.7	45.6	0.35	0.07	1.1	0.136	0.93
G284200		60	8.3	8.0	0.002	>10.0	23.5	0.4	9	2.0	61.3	0.09	1.51	0.4	0.009	0.15
G284201		1200	404	133.5	0.016	4.20	5.68	17.4	2	2.4	35.6	2.93	<0.05	4.6	1.405	1.68
G284202		1090	265	137.5	0.008	6.05	4.17	16.0	2	2.1	54.8	2.50	<0.05	4.4	1.260	1.63

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 14-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107516

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
G284167		0.2	8	1.1	10.2	260	1.1	
G284168		0.4	7	1.2	4.8	187	5.9	
G284169		1.5	19	224	4.4	253	28.0	1.27
G284170		2.1	59	223	6.5	359	100.5	
G284171		2.4	37	570	10.7	658	63.9	
G284172		2.2	9	37.3	27.9	588	13.8	
G284173		0.4	1	0.7	1.1	18	0.6	
G284174		3.7	78	31.8	17.2	624	126.5	
G284175		1.5	4	166.0	17.2	943	3.3	
G284176		4.7	25	53.5	25.1	1660	60.5	
G284177		0.7	4	195.0	7.2	137	3.3	2.66
G284178		2.5	54	7.9	28.1	3660	37.7	
G284179		0.1	1	0.1	1.8	25	1.2	
G284180		3.6	8	17.7	23.5	6150	9.6	1.18
G284181		5.4	20	13.1	19.3	5760	5.6	1.22
G284182		3.7	54	3.8	18.6	3280	19.4	1.04
G284183		5.0	7	6.3	16.6	4890	5.3	1.75
G284184		4.7	5	4.9	16.2	4980	4.5	1.70
G284185		4.3	4	20.1	17.5	3600	4.1	2.57
G284186		4.3	15	6.0	14.8	2290	6.1	2.71
G284187		1.4	77	5.3	8.5	326	27.7	
G284188		0.4	8	1.8	6.4	269	8.7	
G284189		0.4	9	1.6	5.2	781	7.4	
G284190		0.2	7	0.5	5.3	349	3.1	
G284191		0.2	6	0.8	5.4	1880	3.6	
G284192		1.6	4	0.5	7.1	1480	2.9	
G284193		1.6	5	1.0	5.9	3820	2.9	
G284194		1.9	11	1.4	11.4	3450	6.2	
G284195		0.9	30	3.2	13.4	4520	22.1	2.49
G284196		0.5	<1	<0.1	1.1	67	<0.5	
G284197		1.9	19	3.5	9.0	2020	19.7	
G284198		5.1	25	5.8	8.6	4940	21.7	
G284199		3.8	39	7.5	8.5	3280	21.0	
G284200		0.7	6	35.0	4.5	23	4.9	1.41
G284201		2.0	122	6.4	12.2	3480	38.5	
G284202		2.1	105	4.2	15.5	1930	32.7	

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To: ATAC RESOURCES LTD.
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 14-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09107516

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE VA09105687

Project: RAU

P.O. No.:

This report is for 166 Soil samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC72551		0.24	0.002	0.2	0.82	26	<10	100	<0.5	<2	10.25	<0.5	4	12	10	1.30
CC72552		0.30	0.003	0.4	0.89	24	<10	110	<0.5	<2	5.32	0.6	6	16	18	1.78
CC72553		0.36	0.007	<0.2	0.84	48	<10	110	<0.5	<2	9.02	<0.5	5	16	19	1.50
CC72554		0.38	0.006	<0.2	1.01	18	<10	160	<0.5	<2	7.60	<0.5	5	17	14	1.84
CC72555		0.22	0.003	<0.2	2.14	16	<10	240	0.6	<2	0.76	<0.5	8	31	10	3.12
CC72556		0.40	0.011	0.4	0.78	73	<10	180	<0.5	<2	8.23	<0.5	17	13	22	3.72
CC72557		0.24	0.003	0.2	1.90	55	<10	220	0.7	<2	1.74	0.8	9	27	14	3.20
CC72558		0.40	0.003	<0.2	1.09	23	<10	150	<0.5	<2	8.35	<0.5	6	18	22	1.86
CC72559		0.28	0.008	<0.2	1.37	25	<10	190	0.5	<2	3.91	0.5	8	22	15	2.64
CC72560		0.28	0.005	0.3	1.13	21	<10	140	<0.5	<2	5.61	0.7	6	19	15	2.17
CC72561		0.26	0.005	0.2	1.20	23	<10	180	0.5	<2	5.00	0.5	6	20	19	2.20
CC72562		0.28	0.003	<0.2	1.12	28	<10	140	0.5	<2	5.84	0.6	7	19	12	2.28
CC72563		0.34	0.003	0.2	1.30	21	<10	180	0.5	<2	4.76	<0.5	8	20	15	2.44
CC72564		0.22	0.002	<0.2	1.65	20	<10	190	0.7	<2	2.98	0.9	9	27	12	2.95
CC72565		0.24	0.004	0.2	1.48	33	<10	230	0.6	<2	2.44	0.5	8	24	15	2.76
CC72566		0.28	0.003	<0.2	1.84	28	<10	260	0.7	<2	2.73	0.5	9	27	15	3.14
CC72567		0.20	0.001	0.2	1.67	16	<10	210	0.7	<2	1.24	0.7	9	26	11	2.74
CC72568		0.40	0.004	0.3	0.85	27	<10	170	<0.5	<2	9.18	0.5	5	13	19	1.69
CC72569		0.24	0.004	0.2	1.76	26	<10	290	0.7	<2	1.98	0.6	10	30	15	3.09
CC72570		0.28	0.006	0.2	0.94	24	<10	160	<0.5	<2	8.88	0.6	5	15	15	1.66
CC72571		0.24	0.004	<0.2	1.20	17	<10	170	0.5	<2	3.32	0.6	8	21	17	2.33
CC72572		0.20	0.007	0.2	0.93	27	<10	170	<0.5	<2	7.53	0.6	5	15	13	1.76
CC72573		0.32	0.004	0.2	1.02	21	<10	150	<0.5	<2	8.31	<0.5	6	17	16	1.94
CC72574		0.28	0.003	<0.2	1.61	19	<10	220	0.6	<2	2.16	0.7	8	26	11	2.76
CC72575		0.22	0.007	0.2	1.43	36	<10	180	0.5	<2	7.94	0.5	7	24	18	2.16
CC72576		0.24	0.003	<0.2	0.48	34	<10	100	<0.5	<2	15.6	<0.5	2	7	6	0.74
CC72577		0.22	0.002	0.2	1.32	20	<10	170	0.5	<2	4.87	1.1	7	21	18	2.37
CC72578		0.28	0.006	0.3	1.29	22	<10	170	0.6	<2	3.18	0.9	6	22	12	2.57
CC72579		0.26	0.001	<0.2	0.30	23	<10	60	<0.5	<2	13.50	<0.5	1	4	3	0.52
CC72580		0.28	0.003	<0.2	1.01	16	<10	110	<0.5	<2	7.66	<0.5	5	15	8	1.58
CC72636		0.28	0.004	0.5	1.36	21	<10	300	0.5	<2	1.70	0.5	8	26	26	3.54
CC72637		0.40	0.004	<0.2	1.05	14	<10	110	<0.5	<2	8.43	<0.5	8	14	27	2.80
CC72638		0.28	0.004	<0.2	2.48	13	<10	200	0.9	<2	0.47	<0.5	14	29	33	5.12
CC72639		0.22	0.003	<0.2	2.61	13	<10	580	0.9	<2	0.23	<0.5	12	38	16	3.45
CC72640		0.24	0.005	0.2	2.25	14	<10	280	0.9	<2	1.06	<0.5	12	28	31	4.59
CC72641		0.22	0.002	<0.2	1.86	<2	<10	90	0.5	<2	1.40	<0.5	15	19	42	5.40
CC72642		0.28	0.003	<0.2	2.20	6	<10	170	0.5	<2	1.75	<0.5	10	24	33	4.85
CC72643		0.28	0.003	<0.2	1.38	2	<10	150	0.5	<2	3.82	<0.5	13	15	33	4.11
CC72644		0.22	0.001	<0.2	2.37	5	<10	190	0.7	<2	0.35	<0.5	11	23	22	4.45
CC72645		0.26	0.001	<0.2	2.62	7	<10	280	0.7	<2	0.43	<0.5	6	33	7	3.53

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

Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC72551		<10	<1	0.04	10	7.07	582	<1	0.03	10	740	24	0.04	<2	1	27
CC72552		<10	<1	0.04	10	3.43	535	<1	0.02	17	840	23	0.02	2	3	28
CC72553		<10	<1	0.05	10	6.21	537	<1	0.03	15	820	32	0.04	2	2	31
CC72554		<10	1	0.10	10	4.96	508	<1	0.04	14	640	19	0.02	<2	3	34
CC72555		10	<1	0.10	10	0.62	548	1	0.01	18	830	24	0.05	<2	3	16
CC72556		<10	<1	0.13	10	5.13	533	<1	<0.01	46	1770	19	0.01	5	2	30
CC72557		<10	<1	0.10	10	1.29	768	1	0.01	24	650	26	0.02	<2	4	19
CC72558		<10	<1	0.10	10	5.53	490	<1	0.01	22	720	27	<0.01	2	3	36
CC72559		<10	<1	0.13	10	2.45	775	1	0.01	22	800	23	0.03	<2	3	26
CC72560		<10	<1	0.11	10	3.53	545	1	0.01	18	810	21	0.03	<2	2	29
CC72561		<10	<1	0.13	10	3.01	497	1	0.02	20	830	21	0.04	2	3	31
CC72562		<10	<1	0.11	10	3.68	721	1	0.01	17	810	23	0.03	2	2	26
CC72563		<10	<1	0.13	10	3.05	631	1	0.01	19	790	16	0.03	<2	2	25
CC72564		<10	<1	0.12	10	1.88	836	1	0.01	19	730	15	0.04	<2	3	18
CC72565		<10	<1	0.12	10	1.56	775	1	0.01	21	630	27	0.03	3	3	21
CC72566		<10	<1	0.13	10	1.87	783	1	0.01	25	620	24	0.02	3	4	22
CC72567		<10	<1	0.08	10	0.86	724	<1	0.01	17	860	15	0.04	3	2	16
CC72568		<10	<1	0.10	10	6.30	530	1	<0.01	14	630	18	0.01	2	2	38
CC72569		10	<1	0.11	10	1.34	828	1	0.01	33	750	24	0.03	<2	3	18
CC72570		<10	<1	0.12	10	5.95	437	<1	0.01	13	730	16	0.02	<2	2	33
CC72571		<10	<1	0.10	10	2.04	517	<1	0.01	19	1000	21	0.03	<2	3	25
CC72572		10	<1	0.09	10	4.50	551	<1	0.01	11	1050	17	0.06	2	1	27
CC72573		<10	<1	0.11	10	5.49	525	1	0.01	18	840	17	0.02	4	2	36
CC72574		<10	<1	0.09	10	1.37	621	<1	0.01	17	750	18	0.04	<2	3	18
CC72575		<10	<1	0.11	10	4.36	599	1	0.01	17	5460	36	0.06	2	2	40
CC72576		<10	<1	0.04	<10	10.00	588	<1	0.01	4	2250	39	0.04	2	1	55
CC72577		<10	<1	0.12	10	2.88	844	1	0.01	18	990	29	0.06	2	2	23
CC72578		<10	<1	0.10	10	1.79	771	1	0.01	17	910	37	0.06	3	2	17
CC72579		<10	<1	0.02	<10	9.24	636	<1	<0.01	<1	710	33	0.04	<2	<1	34
CC72580		<10	<1	0.07	10	5.23	524	<1	0.01	11	510	30	0.02	3	2	25
CC72636		<10	<1	0.15	20	1.40	665	2	<0.01	32	1040	20	0.02	3	3	29
CC72637		<10	<1	0.13	10	5.64	506	<1	<0.01	16	640	20	0.01	<2	3	66
CC72638		10	<1	0.15	20	1.20	681	1	<0.01	24	480	19	0.01	<2	5	13
CC72639		10	1	0.09	20	0.61	356	1	0.01	38	360	16	0.01	<2	5	15
CC72640		<10	1	0.18	30	1.35	823	1	<0.01	29	700	28	0.02	3	5	20
CC72641		<10	<1	0.28	20	1.63	610	<1	<0.01	23	530	25	0.03	<2	3	21
CC72642		<10	<1	0.20	20	1.94	648	<1	0.02	19	550	17	0.01	<2	3	23
CC72643		<10	<1	0.22	10	2.46	915	1	0.02	20	620	29	0.03	2	3	52
CC72644		<10	<1	0.20	20	1.22	552	<1	0.01	18	290	29	0.01	<2	5	8
CC72645		10	<1	0.10	20	0.57	256	1	0.02	15	330	22	0.02	2	4	15

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VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC72551		<20	0.02	<10	<10	22	<10	135
CC72552		<20	0.03	<10	<10	32	<10	135
CC72553		<20	0.02	<10	<10	27	<10	132
CC72554		<20	0.04	<10	<10	34	<10	117
CC72555		<20	0.04	<10	<10	70	<10	121
CC72556		<20	0.01	<10	<10	37	<10	683
CC72557		<20	0.03	<10	<10	65	<10	216
CC72558		<20	0.04	<10	<10	36	<10	153
CC72559		<20	0.03	<10	<10	42	<10	143
CC72560		<20	0.03	<10	<10	37	<10	164
CC72561		<20	0.03	<10	<10	39	<10	151
CC72562		<20	0.02	<10	<10	38	<10	157
CC72563		<20	0.02	<10	<10	40	<10	98
CC72564		<20	0.02	<10	<10	51	<10	113
CC72565		<20	0.02	<10	<10	51	<10	145
CC72566		<20	0.03	<10	<10	55	<10	131
CC72567		<20	0.03	<10	<10	53	<10	130
CC72568		<20	0.02	<10	<10	28	<10	133
CC72569		<20	0.02	<10	<10	54	<10	134
CC72570		<20	0.02	<10	<10	31	<10	134
CC72571		<20	0.03	<10	<10	41	<10	146
CC72572		<20	0.02	<10	<10	32	<10	133
CC72573		<20	0.02	<10	<10	34	<10	108
CC72574		<20	0.03	<10	<10	52	<10	114
CC72575		<20	0.02	<10	10	56	<10	169
CC72576		<20	0.01	<10	<10	21	<10	159
CC72577		<20	0.02	<10	<10	41	<10	143
CC72578		<20	0.02	<10	<10	40	<10	171
CC72579		<20	<0.01	<10	<10	9	<10	104
CC72580		<20	0.02	<10	<10	31	<10	100
CC72636		<20	0.02	<10	<10	36	<10	107
CC72637		<20	0.01	<10	<10	21	<10	68
CC72638		<20	0.02	<10	<10	46	<10	72
CC72639		<20	0.04	<10	<10	73	<10	74
CC72640		<20	0.02	<10	<10	48	<10	87
CC72641		<20	0.01	<10	<10	24	<10	71
CC72642		<20	0.02	<10	<10	40	<10	79
CC72643		<20	0.01	<10	<10	25	<10	106
CC72644		<20	0.01	<10	<10	34	<10	75
CC72645		<20	0.04	<10	<10	78	<10	67

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To: ATAC RESOURCES LTD.
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VANCOUVER BC V6B 1L8

Project: RAU

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CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC72646		0.22	0.002	0.2	2.05	12	<10	230	0.8	<2	1.29	<0.5	11	26	24	4.25
CC72647		0.28	0.003	<0.2	2.24	8	<10	250	0.6	<2	0.80	<0.5	11	26	20	4.45
CC72648		0.32	0.006	<0.2	1.85	14	<10	170	0.8	<2	1.35	<0.5	9	29	19	3.53
CC72649		0.32	0.003	<0.2	1.50	7	<10	120	<0.5	<2	4.50	<0.5	10	19	35	4.11
CC72650		0.28	0.002	<0.2	1.92	9	<10	150	0.7	<2	3.47	<0.5	10	24	31	4.22
CC72651		0.24	0.005	<0.2	1.75	8	<10	130	0.5	2	2.60	<0.5	10	20	34	4.56
CC72652		0.26	0.004	<0.2	1.38	11	<10	210	0.5	<2	3.58	0.5	9	21	31	3.10
CC72653		0.26	0.004	<0.2	2.11	6	<10	240	0.7	<2	0.59	<0.5	10	28	29	4.28
CC72654		0.24	0.005	<0.2	1.55	10	<10	200	0.5	<2	0.99	<0.5	8	25	25	2.94
CC72655		0.28	0.004	0.2	1.83	15	<10	290	0.6	<2	1.32	0.5	9	31	21	3.18
CC72656		0.28	0.005	<0.2	1.40	20	<10	230	0.5	<2	5.79	<0.5	7	25	26	2.70
CC72657		0.26	0.004	<0.2	1.59	14	<10	270	0.6	<2	4.77	<0.5	9	26	32	3.31
CC72658		0.26	0.002	<0.2	1.78	10	<10	210	0.6	<2	0.50	<0.5	11	26	33	4.50
CC72659		0.28	0.008	<0.2	1.11	22	<10	200	<0.5	<2	4.27	0.7	6	21	29	2.40
CC72660		0.24	0.005	<0.2	1.44	20	<10	260	0.6	<2	1.16	<0.5	9	28	25	2.88
CC72661		0.22	0.007	0.3	2.72	34	<10	260	1.0	2	0.66	1.2	15	38	25	3.76
CC72662		0.30	0.004	<0.2	1.83	15	<10	250	0.6	<2	0.41	<0.5	8	33	24	2.90
CC72663		0.30	0.005	<0.2	1.24	13	<10	200	<0.5	<2	5.34	<0.5	7	22	22	2.33
CC72664		0.30	0.005	<0.2	1.56	15	<10	270	0.6	<2	2.52	0.6	7	29	23	2.82
CC72665		0.30	0.006	<0.2	1.90	21	<10	340	0.7	2	0.77	0.5	11	33	18	3.64
CC72666		0.24	0.007	0.2	1.80	20	<10	300	0.7	<2	1.32	<0.5	9	33	16	3.39
CC72667		0.22	0.003	<0.2	1.39	16	<10	230	0.5	<2	2.33	0.6	7	27	17	2.75
CC72668		0.28	0.005	<0.2	1.40	12	<10	220	0.5	<2	1.67	<0.5	7	27	16	2.66
CC72669		0.26	0.004	<0.2	1.46	16	<10	270	0.5	<2	4.90	<0.5	7	26	17	2.56
CC72670		0.30	0.005	<0.2	1.64	16	<10	260	0.6	<2	2.77	<0.5	8	29	21	2.94
CC72671		0.30	0.005	<0.2	1.66	14	<10	250	0.6	<2	2.22	<0.5	8	28	23	2.89
CC72672		0.28	0.003	<0.2	2.07	23	<10	270	0.8	<2	0.94	<0.5	10	34	16	3.76
CC72673		0.30	0.008	0.2	1.90	19	<10	300	0.7	2	3.37	<0.5	10	32	36	3.17
CC72674		0.38	0.006	0.4	1.80	22	<10	290	0.7	<2	3.67	<0.5	8	30	20	3.02
CC72675		0.22	0.005	0.2	2.31	26	<10	340	0.9	<2	0.40	<0.5	10	39	15	3.68
CC72676		0.30	0.005	0.2	2.30	23	<10	360	0.8	<2	1.03	<0.5	8	36	16	3.51
CC72677		0.26	0.007	<0.2	1.98	15	<10	270	0.6	<2	3.64	<0.5	8	29	13	2.72
CC72678		0.36	0.006	<0.2	1.82	20	<10	280	0.7	<2	2.40	<0.5	9	33	21	3.10
CC72679		0.24	0.005	<0.2	2.45	19	<10	330	0.7	2	0.39	<0.5	8	42	13	3.53
CC72680		0.22	0.005	0.2	2.05	16	<10	270	0.7	<2	0.47	<0.5	8	33	15	3.27
CC72681		0.36	0.063	<0.2	1.63	16	<10	240	0.7	2	3.14	<0.5	7	28	22	2.86
CC72682		0.30	0.017	0.2	1.82	12	<10	260	0.6	<2	0.31	<0.5	7	28	9	2.88
CC72683		0.26	0.010	<0.2	1.67	12	<10	240	0.6	<2	2.17	<0.5	8	27	19	2.84
CC72684		0.30	0.011	<0.2	1.41	14	<10	240	0.5	<2	2.81	<0.5	7	24	24	2.66
CC72685		0.36	0.008	0.2	1.57	13	<10	270	0.5	<2	1.21	<0.5	7	28	24	2.70

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC72646		<10	<1	0.15	20	1.28	711	1	0.02	23	560	32	0.02	3	5	21
CC72647		<10	<1	0.16	20	1.27	510	1	0.02	19	410	18	0.01	<2	4	15
CC72648		<10	<1	0.11	20	1.21	660	1	0.02	25	530	30	0.02	2	4	24
CC72649		<10	<1	0.19	20	2.86	654	<1	0.02	20	590	17	0.01	2	3	43
CC72650		<10	<1	0.16	20	2.64	527	<1	0.02	22	580	29	0.01	2	4	37
CC72651		<10	<1	0.17	20	2.24	553	<1	0.02	19	670	24	0.02	2	3	28
CC72652		<10	<1	0.14	20	2.39	618	1	0.03	23	820	20	0.03	3	3	46
CC72653		<10	<1	0.21	20	0.91	498	1	0.03	21	550	28	0.02	2	5	21
CC72654		<10	<1	0.12	20	0.72	489	1	0.03	22	720	38	0.03	2	4	27
CC72655		<10	<1	0.12	20	0.90	538	1	0.03	26	720	28	0.03	2	4	23
CC72656		<10	<1	0.16	20	3.81	390	1	0.03	25	910	23	0.02	3	4	40
CC72657		<10	<1	0.24	20	2.99	566	1	0.04	28	830	30	0.02	2	4	52
CC72658		<10	1	0.20	20	1.03	675	1	0.02	26	750	27	0.02	3	4	18
CC72659		<10	<1	0.10	10	2.75	540	1	0.03	21	880	44	0.02	7	3	33
CC72660		<10	<1	0.11	20	0.91	484	1	0.03	29	1060	28	0.02	3	4	31
CC72661		<10	<1	0.10	20	0.64	970	1	0.03	29	1060	131	0.03	12	5	20
CC72662		<10	<1	0.11	20	0.60	292	1	0.03	29	760	20	0.01	<2	5	27
CC72663		<10	<1	0.14	20	3.43	434	1	0.04	22	880	19	0.01	<2	3	45
CC72664		<10	<1	0.14	20	1.55	501	1	0.04	24	1000	21	0.04	3	4	35
CC72665		10	<1	0.15	20	0.72	810	1	0.03	29	730	46	0.03	3	4	21
CC72666		<10	<1	0.16	20	0.98	529	1	0.04	29	640	32	0.03	3	4	24
CC72667		<10	<1	0.14	20	1.38	530	1	0.04	20	770	20	0.04	2	3	30
CC72668		<10	<1	0.13	20	1.18	387	1	0.05	23	740	14	0.02	2	4	33
CC72669		<10	<1	0.18	20	3.19	363	1	0.04	21	690	19	0.02	2	4	36
CC72670		<10	<1	0.17	20	1.87	549	1	0.04	25	810	23	0.03	3	4	30
CC72671		<10	<1	0.10	20	1.55	522	1	0.03	25	730	26	0.02	2	4	25
CC72672		<10	<1	0.13	20	0.90	836	1	0.02	31	720	35	0.03	2	4	16
CC72673		<10	<1	0.19	20	2.36	737	1	0.04	30	770	28	0.02	2	4	33
CC72674		<10	<1	0.13	20	2.47	650	1	0.02	32	920	39	0.03	3	4	30
CC72675		10	<1	0.13	20	0.62	575	1	0.02	34	570	32	0.02	3	4	16
CC72676		<10	<1	0.18	20	0.91	465	1	0.03	26	580	42	0.02	3	4	19
CC72677		<10	<1	0.13	20	2.39	605	1	0.03	21	680	27	0.02	2	4	28
CC72678		<10	<1	0.14	20	1.72	576	1	0.03	32	790	30	0.01	3	5	31
CC72679		10	<1	0.17	20	0.70	498	1	0.03	28	520	27	0.02	2	4	18
CC72680		<10	<1	0.14	20	0.58	506	1	0.03	27	560	35	0.02	3	3	19
CC72681		<10	<1	0.15	20	2.11	431	1	0.03	27	680	29	0.01	<2	4	32
CC72682		<10	1	0.08	10	0.43	405	1	0.02	17	630	22	0.02	2	3	16
CC72683		<10	<1	0.14	20	1.51	470	1	0.03	23	870	19	0.02	2	4	29
CC72684		<10	<1	0.17	20	1.92	424	1	0.04	23	850	23	0.01	2	4	35
CC72685		<10	<1	0.13	20	0.94	405	1	0.04	27	890	18	0.01	3	4	32

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

Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC72646		<20	0.02	<10	<10	44	<10	90
CC72647		<20	0.02	<10	<10	47	<10	79
CC72648		<20	0.03	<10	<10	48	<10	103
CC72649		<20	0.01	<10	<10	23	<10	63
CC72650		<20	0.01	<10	<10	34	<10	87
CC72651		<20	0.01	<10	<10	26	<10	75
CC72652		<20	0.02	<10	<10	35	<10	91
CC72653		<20	0.02	<10	<10	47	<10	86
CC72654		<20	0.03	<10	<10	46	<10	90
CC72655		<20	0.03	<10	<10	63	<10	132
CC72656		<20	0.03	<10	<10	47	<10	123
CC72657		<20	0.03	<10	<10	48	<10	127
CC72658		<20	0.03	<10	<10	42	<10	104
CC72659		<20	0.04	<10	<10	44	<10	136
CC72660		<20	0.04	<10	<10	56	<10	116
CC72661		<20	0.03	<10	<10	61	<10	223
CC72662		<20	0.05	<10	<10	59	<10	82
CC72663		<20	0.05	<10	<10	43	<10	95
CC72664		<20	0.04	<10	<10	52	<10	112
CC72665		<20	0.03	<10	<10	59	<10	138
CC72666		<20	0.03	<10	<10	60	<10	123
CC72667		<20	0.04	<10	<10	49	<10	102
CC72668		<20	0.06	<10	<10	51	<10	87
CC72669		<20	0.04	<10	<10	45	<10	111
CC72670		<20	0.04	<10	<10	52	<10	110
CC72671		<20	0.03	<10	<10	52	<10	116
CC72672		<20	0.02	<10	<10	59	<10	158
CC72673		<20	0.03	<10	<10	58	<10	124
CC72674		<20	0.02	<10	<10	55	<10	175
CC72675		<20	0.02	<10	<10	70	<10	134
CC72676		<20	0.03	<10	<10	72	<10	135
CC72677		<20	0.03	<10	<10	63	<10	111
CC72678		<20	0.03	<10	<10	52	<10	119
CC72679		<20	0.03	<10	<10	77	<10	103
CC72680		<20	0.03	<10	<10	57	<10	97
CC72681		<20	0.02	<10	<10	45	<10	110
CC72682		<20	0.03	<10	<10	56	<10	64
CC72683		<20	0.03	<10	<10	52	<10	89
CC72684		<20	0.04	<10	<10	49	<10	115
CC72685		<20	0.05	<10	<10	53	<10	91

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Project: RAU

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CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC72686		0.34	0.010	<0.2	1.53	12	<10	320	0.6	<2	0.66	<0.5	8	27	29	3.00
CC72687		0.28	0.005	0.4	0.61	25	<10	230	<0.5	<2	9.28	1.5	3	13	13	2.82
CC72688		0.28	0.015	0.4	1.46	15	<10	240	0.6	<2	0.48	0.6	9	27	19	3.19
CC72689		0.26	0.005	<0.2	1.77	17	<10	270	0.7	<2	1.13	<0.5	9	31	17	3.31
CC72690		0.28	0.007	<0.2	1.44	14	<10	220	0.6	<2	3.65	0.6	6	27	17	2.68
CC72691		0.30	0.005	<0.2	0.99	12	<10	160	0.5	<2	3.84	<0.5	9	15	28	2.60
CC72692		0.28	0.006	<0.2	0.83	12	<10	240	<0.5	<2	2.77	0.7	10	13	29	2.88
CC72693		0.28	0.004	<0.2	1.71	18	<10	290	0.7	<2	0.90	1.1	9	29	17	3.18
CC72694		0.26	0.005	<0.2	1.37	15	<10	210	0.6	<2	2.85	1.0	8	24	17	2.92
CC72695		0.30	0.004	<0.2	0.69	17	<10	110	<0.5	<2	7.20	<0.5	5	13	19	1.99
CC72696		0.32	0.006	<0.2	1.07	34	<10	220	0.5	<2	3.98	3.5	14	7	65	2.51
CC72697		0.22	0.006	<0.2	1.64	12	<10	230	0.6	<2	1.14	0.8	10	26	13	2.99
CC72698		0.34	0.008	<0.2	1.03	26	<10	190	0.5	<2	3.30	0.8	10	17	26	2.84
CC72699		0.26	0.006	<0.2	1.20	20	<10	200	0.5	<2	1.91	0.8	8	21	20	2.91
CC72700		0.28	0.007	<0.2	1.32	18	<10	200	0.6	<2	2.88	0.8	9	25	21	2.93
CC72701		0.24	0.006	0.4	2.21	21	<10	330	0.9	<2	1.08	<0.5	11	35	15	3.61
CC72702		0.26	0.008	0.2	1.41	21	<10	240	0.6	3	4.21	<0.5	8	24	15	2.78
CC72703		0.36	0.004	<0.2	0.30	16	<10	60	<0.5	<2	17.7	<0.5	1	5	3	0.69
CC72704		0.22	0.004	<0.2	0.32	8	<10	50	<0.5	<2	15.8	0.7	1	5	3	0.68
CC72705		0.26	0.004	0.2	1.14	14	<10	170	<0.5	<2	6.28	0.6	5	17	9	1.98
CC72706		0.22	0.005	0.2	1.95	13	<10	200	0.7	<2	2.21	<0.5	8	29	10	2.83
CC72707		0.26	0.004	0.2	1.83	18	<10	230	0.7	<2	4.38	0.6	7	27	13	2.88
CC72708		0.34	0.005	0.3	1.12	19	<10	180	0.5	<2	7.87	<0.5	9	19	20	2.69
CC72709		0.26	0.004	<0.2	1.25	18	<10	170	0.6	<2	5.73	<0.5	6	21	10	2.34
CC72710		0.26	0.005	0.3	1.73	20	<10	240	0.7	<2	1.86	0.6	8	27	12	3.04
CC72711		0.24	0.004	<0.2	1.79	24	<10	230	0.8	<2	1.21	1.2	9	30	15	3.34
CC72712		0.30	0.008	0.2	1.07	21	<10	140	<0.5	<2	4.68	<0.5	6	19	13	2.12
CC72713		0.28	0.004	<0.2	1.48	29	<10	170	<0.5	<2	0.56	0.5	9	29	13	3.12
CC72714		0.28	0.005	0.4	1.61	21	<10	270	0.6	<2	1.37	<0.5	7	27	13	2.81
CC72715		0.30	0.004	<0.2	0.13	13	<10	50	<0.5	<2	18.0	0.8	2	2	1	0.40
CC72716		0.32	0.005	2.6	1.66	28	<10	200	0.6	<2	0.58	1.6	9	24	9	2.89
CC72601		0.26	0.004	0.2	1.76	21	<10	270	0.6	<2	1.24	1.1	8	26	11	2.91
CC72602		0.24	0.005	0.3	1.23	26	<10	170	0.5	2	3.31	1.3	6	20	13	2.36
CC72603		0.22	0.004	<0.2	0.82	18	<10	120	<0.5	<2	7.80	0.6	5	15	12	1.75
CC72604		0.26	0.004	0.2	0.66	21	<10	100	<0.5	<2	9.32	0.7	4	11	10	1.42
CC72605		0.26	0.004	0.3	1.64	20	<10	200	0.6	<2	2.17	0.9	6	27	14	2.71
CC72606		0.24	0.005	0.4	1.07	21	<10	180	<0.5	<2	3.29	0.8	6	20	15	2.24
CC72607		0.36	0.005	0.2	0.74	22	<10	90	<0.5	<2	9.66	0.8	5	14	15	1.56
CC72608		0.24	0.002	<0.2	1.85	15	<10	140	0.7	<2	1.89	1.4	7	27	10	3.00
CC72609		0.22	0.004	0.2	0.73	18	<10	100	<0.5	<2	10.70	0.8	5	11	8	1.54

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CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC72686		<10	<1	0.15	20	0.66	425	1	0.03	27	740	22	0.01	3	4	26
CC72687		<10	<1	0.07	10	6.26	1610	1	0.02	10	940	101	0.02	8	2	79
CC72688		<10	<1	0.14	20	0.48	661	1	0.03	24	600	56	0.01	2	4	22
CC72689		<10	<1	0.18	20	0.88	580	1	0.04	25	570	38	0.02	2	4	24
CC72690		<10	<1	0.13	10	2.27	482	1	0.03	21	950	21	0.05	2	3	31
CC72691		<10	<1	0.22	20	1.34	463	1	0.02	28	880	17	0.02	<2	3	49
CC72692		<10	<1	0.23	20	1.22	1450	1	0.02	32	850	32	0.03	<2	2	35
CC72693		<10	<1	0.10	20	0.62	604	1	0.02	23	830	28	0.04	<2	3	18
CC72694		<10	<1	0.12	20	1.72	745	3	0.03	22	930	27	0.04	2	3	27
CC72695		<10	<1	0.10	10	4.33	566	1	0.01	19	1070	24	0.01	3	2	40
CC72696		<10	<1	0.35	40	0.66	1125	1	0.01	13	4070	272	0.01	10	2	34
CC72697		<10	<1	0.12	10	0.59	731	1	0.02	18	1040	19	0.09	<2	2	20
CC72698		<10	<1	0.22	20	1.91	549	1	0.02	25	1010	24	0.03	2	3	27
CC72699		<10	<1	0.14	20	0.95	661	1	0.03	22	1100	24	0.05	<2	3	26
CC72700		<10	<1	0.13	20	1.74	547	1	0.03	27	1010	23	0.04	2	3	28
CC72701		<10	<1	0.12	20	0.97	638	1	0.03	35	710	39	0.02	3	5	21
CC72702		<10	<1	0.13	10	2.75	692	1	0.03	25	880	27	0.02	3	3	27
CC72703		<10	<1	0.03	10	11.50	558	<1	0.03	6	1040	21	<0.01	2	1	46
CC72704		<10	<1	0.04	<10	10.30	410	<1	0.02	4	650	21	<0.01	<2	1	30
CC72705		<10	<1	0.08	10	3.91	658	1	0.02	14	920	27	0.06	2	1	20
CC72706		<10	<1	0.12	20	1.55	677	1	0.03	19	460	27	0.03	3	4	16
CC72707		<10	<1	0.11	10	2.82	857	1	0.03	18	710	25	0.03	2	4	24
CC72708		<10	<1	0.16	10	4.29	559	1	0.03	27	860	22	0.02	<2	3	76
CC72709		<10	<1	0.08	10	3.81	726	1	0.03	17	710	27	0.03	2	2	21
CC72710		<10	<1	0.09	10	1.19	790	1	0.02	20	830	50	0.04	2	3	16
CC72711		<10	<1	0.11	20	0.86	835	1	0.02	24	1090	75	0.04	3	3	18
CC72712		<10	<1	0.09	10	3.01	462	1	0.03	17	780	33	0.02	3	3	24
CC72713		<10	<1	0.09	10	0.47	773	1	0.02	20	820	37	0.03	3	3	15
CC72714		<10	<1	0.08	20	1.00	492	1	0.02	25	790	22	0.02	3	4	23
CC72715		<10	<1	0.01	<10	12.15	476	<1	0.02	<1	460	133	<0.01	3	<1	32
CC72716		<10	<1	0.08	20	0.44	642	1	0.02	18	740	56	0.02	4	3	17
CC72601		<10	<1	0.08	10	0.85	732	1	0.02	21	440	27	0.02	3	3	16
CC72602		<10	<1	0.08	10	1.97	584	1	0.02	16	790	70	0.03	3	2	20
CC72603		<10	<1	0.08	10	4.97	406	1	0.03	13	740	26	0.02	2	2	31
CC72604		<10	<1	0.06	10	6.36	506	1	0.02	10	670	43	0.02	3	1	28
CC72605		<10	<1	0.12	10	1.44	376	1	0.04	21	690	37	0.02	4	3	25
CC72606		<10	<1	0.10	10	1.98	389	2	0.02	22	1040	31	0.02	3	2	30
CC72607		<10	<1	0.09	10	6.17	482	1	0.02	14	690	28	0.01	4	2	37
CC72608		<10	<1	0.10	10	1.12	535	1	0.02	17	610	35	0.03	<2	3	17
CC72609		<10	<1	0.07	10	7.24	824	1	0.02	10	1170	39	0.04	4	1	29

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC72686		<20	0.04	<10	<10	56	<10	108
CC72687		<20	0.01	<10	<10	30	<10	416
CC72688		<20	0.03	<10	<10	50	<10	168
CC72689		<20	0.03	<10	<10	57	<10	142
CC72690		<20	0.02	<10	<10	46	<10	123
CC72691		<20	0.01	<10	<10	24	<10	99
CC72692		<20	0.01	<10	<10	22	<10	206
CC72693		<20	0.02	<10	<10	54	<10	168
CC72694		<20	0.02	<10	<10	45	<10	135
CC72695		<20	0.01	<10	<10	25	<10	177
CC72696		<20	0.01	<10	<10	19	<10	695
CC72697		<20	0.02	<10	<10	52	<10	157
CC72698		<20	0.02	<10	<10	28	<10	159
CC72699		<20	0.02	<10	<10	39	<10	132
CC72700		<20	0.02	<10	<10	44	<10	162
CC72701		<20	0.03	<10	<10	55	<10	157
CC72702		<20	0.02	<10	<10	47	<10	130
CC72703		<20	0.01	<10	10	16	<10	89
CC72704		<20	0.01	<10	<10	12	<10	97
CC72705		<20	0.02	<10	<10	33	<10	128
CC72706		<20	0.04	<10	<10	59	<10	123
CC72707		<20	0.03	<10	<10	52	<10	110
CC72708		<20	0.02	<10	<10	35	<10	101
CC72709		<20	0.02	<10	<10	38	<10	104
CC72710		<20	0.02	<10	<10	53	<10	135
CC72711		<20	0.02	<10	<10	55	<10	187
CC72712		<20	0.03	<10	<10	37	<10	117
CC72713		<20	0.03	<10	<10	54	<10	175
CC72714		<20	0.03	<10	<10	51	<10	115
CC72715		<20	<0.01	<10	10	14	<10	203
CC72716		<20	0.03	<10	<10	54	<10	223
CC72601		<20	0.02	<10	<10	57	<10	186
CC72602		<20	0.02	<10	<10	42	<10	202
CC72603		<20	0.02	<10	<10	29	<10	115
CC72604		<20	0.02	<10	<10	23	<10	129
CC72605		<20	0.03	<10	<10	51	<10	122
CC72606		<20	0.02	<10	<10	38	<10	122
CC72607		<20	0.02	<10	<10	25	<10	113
CC72608		<20	0.02	<10	<10	56	<10	142
CC72609		<20	0.01	<10	<10	23	<10	129

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To: ATAC RESOURCES LTD.
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Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC72610		0.18	0.006	0.2	1.51	20	<10	210	0.6	<2	2.41	1.0	9	25	25	2.80
CC72611		0.18	0.005	<0.2	0.99	12	<10	140	<0.5	<2	5.14	0.9	7	16	14	2.14
CC72612		0.28	0.008	0.2	0.58	9	<10	90	<0.5	<2	11.05	1.2	4	11	10	1.23
CC72613		0.28	0.007	<0.2	0.82	9	<10	100	<0.5	2	8.19	0.8	5	15	10	1.70
CC72614		0.30	0.005	<0.2	0.48	10	<10	50	<0.5	<2	11.30	1.7	3	8	6	0.92
CC72615		0.28	0.006	0.2	1.48	18	<10	310	0.6	<2	4.87	0.7	9	25	18	2.76
CC72616		0.32	0.007	0.2	1.53	15	<10	240	0.6	2	3.32	0.6	8	25	18	2.63
CC72617		0.26	0.004	0.2	1.81	18	<10	320	0.7	2	1.20	0.9	10	32	17	3.35
CC72618		0.24	0.004	0.2	1.31	11	<10	190	0.6	3	1.11	<0.5	8	26	18	2.96
CC72619		0.22	0.004	<0.2	1.49	11	<10	320	0.7	<2	3.06	1.0	9	25	15	2.81
CC72620		0.22	0.006	0.2	1.44	15	<10	250	0.6	<2	3.00	0.6	9	24	15	2.81
CC72621		0.24	0.005	0.2	1.55	14	<10	280	0.6	<2	3.25	0.9	9	26	19	2.91
CC72622		0.32	0.005	0.3	1.39	16	<10	240	0.6	<2	5.34	0.5	9	24	19	2.78
CC72623		0.30	0.005	0.2	1.21	14	<10	210	0.5	<2	5.31	<0.5	9	22	18	2.63
CC72624		0.32	0.006	0.3	1.55	14	<10	260	0.7	<2	2.19	0.5	9	25	17	3.28
CC72625		0.30	0.005	0.2	2.08	11	<10	320	0.7	<2	0.67	<0.5	8	32	12	3.07
CC72626		0.26	0.004	<0.2	1.36	16	<10	2780	0.7	<2	1.39	0.8	12	19	18	3.75
CC72627		0.28	0.007	0.2	0.57	15	<10	130	<0.5	<2	12.10	0.7	4	8	6	1.13
CC72628		0.24	0.003	0.2	0.79	17	<10	160	<0.5	<2	10.25	0.6	5	12	8	1.43
CC72629		0.26	0.003	0.5	1.33	12	<10	210	0.5	<2	5.91	<0.5	5	18	7	1.85
CC72630		0.24	0.003	0.4	0.43	8	<10	140	<0.5	<2	14.6	0.5	2	5	5	0.71
CC72631		0.24	0.003	0.2	0.71	9	<10	190	<0.5	<2	11.25	1.4	4	10	6	1.25
CC72632		0.28	0.002	0.2	1.12	13	<10	170	<0.5	<2	9.66	0.6	4	15	6	1.53
CC72633		0.20	0.002	0.2	1.28	11	<10	120	0.5	<2	8.55	0.5	5	17	8	1.72
CC72634		0.32	0.003	0.4	1.22	16	<10	140	<0.5	<2	7.81	<0.5	4	16	8	1.73
CC72635		0.30	0.002	0.2	1.02	22	<10	120	<0.5	<2	10.10	1.2	5	12	8	1.64
CC72581		0.22	0.004	0.3	0.83	20	<10	120	<0.5	<2	9.14	<0.5	4	13	9	1.51
CC72582		0.24	0.003	0.3	0.65	19	<10	110	<0.5	<2	10.45	0.6	4	10	7	1.26
CC72583		0.22	0.005	0.3	0.78	18	<10	120	<0.5	<2	8.31	0.7	4	12	11	1.55
CC72584		0.26	0.011	0.3	0.85	21	<10	150	<0.5	<2	10.25	<0.5	6	13	14	1.72
CC72585		0.34	0.006	0.3	0.69	16	<10	110	<0.5	<2	10.65	0.5	4	11	11	1.36
CC72586		0.24	0.004	0.2	0.93	13	<10	130	<0.5	<2	7.76	0.8	5	15	9	1.67
CC72587		0.26	0.006	0.2	0.84	11	<10	100	<0.5	<2	9.27	0.6	5	13	11	1.40
CC72588		0.26	0.004	0.3	1.07	24	<10	130	<0.5	<2	7.86	0.7	6	16	12	1.95
CC72589		0.22	0.004	<0.2	1.47	18	<10	130	0.5	<2	1.99	1.0	6	21	9	2.36
CC72590		0.20	0.003	0.2	2.04	19	<10	230	0.6	<2	0.85	0.9	7	30	10	3.18
CC72591		0.20	0.004	0.3	0.69	31	<10	100	<0.5	<2	10.30	1.3	3	11	9	1.33
CC72592		0.22	0.006	0.6	1.68	55	<10	250	0.7	<2	3.78	0.5	7	27	15	2.96
CC72593		0.22	0.004	<0.2	2.19	12	<10	180	0.7	<2	0.68	0.6	8	29	7	3.12
CC72594		0.18	0.003	<0.2	1.84	12	<10	180	0.5	<2	3.04	1.0	7	25	7	3.11

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC72610		10	<1	0.14	10	1.33	721	1	0.03	28	820	35	0.05	2	2	22
CC72611		<10	<1	0.13	10	3.01	595	<1	0.02	16	1030	32	0.04	2	2	22
CC72612		<10	<1	0.06	10	7.60	510	1	0.02	10	710	53	0.02	<2	1	40
CC72613		<10	<1	0.08	10	5.15	471	1	0.03	11	770	55	0.03	2	1	25
CC72614		<10	<1	0.04	<10	7.78	477	1	0.02	5	710	115	0.03	3	1	25
CC72615		<10	<1	0.19	20	3.08	691	1	0.03	25	750	24	0.02	5	3	35
CC72616		10	<1	0.14	10	2.17	551	1	0.03	23	580	20	0.02	3	3	26
CC72617		10	<1	0.15	20	0.83	690	1	0.03	30	630	25	0.04	2	3	22
CC72618		<10	<1	0.25	20	0.79	439	1	0.02	22	590	16	0.04	3	2	17
CC72619		10	<1	0.22	10	1.27	742	1	0.02	22	980	26	0.06	3	2	31
CC72620		10	<1	0.13	10	1.85	691	1	0.02	22	980	24	0.04	3	2	26
CC72621		<10	<1	0.13	10	1.96	677	1	0.03	24	920	29	0.04	5	3	29
CC72622		<10	<1	0.22	20	2.85	706	1	0.04	24	620	25	0.01	<2	4	48
CC72623		<10	<1	0.16	10	2.86	694	1	0.03	25	610	24	0.01	4	3	45
CC72624		<10	<1	0.17	20	1.44	756	1	0.03	24	790	28	0.02	2	3	24
CC72625		10	<1	0.12	20	0.62	447	1	0.04	21	690	20	0.02	2	4	22
CC72626		<10	<1	0.15	10	0.71	905	1	0.02	21	690	35	0.09	5	3	17
CC72627		<10	<1	0.04	<10	8.39	726	<1	0.02	7	700	33	0.02	4	1	32
CC72628		<10	<1	0.07	10	7.05	608	<1	0.02	11	680	48	0.01	3	2	30
CC72629		<10	<1	0.06	10	3.77	1230	<1	0.02	12	780	22	0.02	2	2	16
CC72630		<10	<1	0.02	<10	9.88	1055	<1	0.02	4	500	59	0.01	2	1	29
CC72631		<10	<1	0.04	<10	7.75	1290	<1	0.02	8	900	92	0.04	4	1	33
CC72632		10	<1	0.06	10	6.54	629	<1	0.02	10	1380	22	0.02	3	2	26
CC72633		<10	<1	0.06	10	5.34	637	<1	0.02	10	1570	29	0.06	<2	1	25
CC72634		<10	<1	0.05	10	5.33	527	<1	0.01	11	970	32	0.02	<2	2	25
CC72635		<10	<1	0.04	<10	7.02	942	<1	0.01	8	820	45	0.01	3	2	23
CC72581		<10	<1	0.08	10	6.34	593	1	0.01	11	800	89	0.02	2	1	29
CC72582		<10	1	0.04	<10	7.39	769	1	0.01	9	640	92	0.01	2	1	25
CC72583		<10	<1	0.07	10	5.58	539	1	0.01	10	880	29	0.03	2	1	27
CC72584		<10	1	0.08	10	7.22	401	1	0.01	11	810	21	0.01	<2	2	33
CC72585		<10	<1	0.08	10	7.52	422	<1	0.01	10	630	18	<0.01	2	1	34
CC72586		<10	<1	0.08	10	5.30	540	1	0.01	12	810	19	0.01	<2	2	26
CC72587		<10	1	0.06	10	6.38	555	1	0.01	9	770	17	0.02	<2	1	24
CC72588		<10	<1	0.09	10	5.13	774	1	0.01	13	710	40	0.01	3	2	25
CC72589		<10	<1	0.07	10	1.18	772	1	0.01	13	700	32	0.02	2	2	14
CC72590		<10	<1	0.13	10	0.54	607	1	0.02	15	460	39	0.02	<2	3	19
CC72591		<10	1	0.06	<10	7.14	567	1	0.01	7	620	31	0.01	2	1	26
CC72592		<10	<1	0.12	20	2.33	753	1	0.02	20	1140	33	0.03	<2	3	29
CC72593		10	<1	0.08	10	0.53	411	<1	0.01	15	440	21	0.01	<2	4	15
CC72594		<10	<1	0.08	10	1.79	462	1	0.01	12	710	22	0.04	<2	2	17

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC72610		<20	0.02	<10	<10	46	<10	158
CC72611		<20	0.02	<10	<10	32	<10	166
CC72612		<20	0.02	<10	<10	26	<10	187
CC72613		<20	0.02	<10	<10	31	<10	124
CC72614		<20	0.01	<10	<10	22	<10	149
CC72615		<20	0.02	<10	<10	46	<10	140
CC72616		<20	0.02	<10	<10	50	<10	117
CC72617		<20	0.02	<10	<10	60	<10	128
CC72618		<20	0.03	<10	<10	38	<10	91
CC72619		<20	0.02	<10	<10	41	<10	271
CC72620		<20	0.02	<10	<10	46	<10	140
CC72621		<20	0.02	<10	<10	52	<10	135
CC72622		<20	0.03	<10	<10	44	<10	122
CC72623		<20	0.03	<10	<10	39	<10	120
CC72624		<20	0.02	<10	<10	46	<10	129
CC72625		<20	0.03	<10	<10	61	<10	79
CC72626		<20	0.01	<10	<10	31	<10	230
CC72627		<20	0.01	<10	<10	18	<10	129
CC72628		<20	0.02	<10	<10	27	<10	120
CC72629		<20	0.02	<10	<10	30	<10	105
CC72630		<20	0.01	<10	<10	11	<10	180
CC72631		<20	0.01	<10	<10	25	<10	177
CC72632		<20	0.01	<10	<10	30	<10	117
CC72633		<20	0.02	<10	<10	31	<10	163
CC72634		<20	0.02	<10	<10	34	<10	149
CC72635		<20	0.02	<10	<10	26	<10	272
CC72581		<20	0.01	<10	<10	27	<10	123
CC72582		<20	0.01	<10	<10	22	<10	134
CC72583		<20	0.01	<10	<10	24	<10	147
CC72584		<20	0.02	<10	<10	27	<10	135
CC72585		<20	0.02	<10	<10	23	<10	102
CC72586		<20	0.02	<10	<10	29	<10	119
CC72587		<20	0.02	<10	<10	26	<10	92
CC72588		<20	0.02	<10	<10	34	<10	140
CC72589		<20	0.03	<10	<10	44	<10	131
CC72590		<20	0.04	<10	<10	70	<10	167
CC72591		<20	0.02	<10	<10	23	<10	193
CC72592		<20	0.03	<10	<10	50	<10	188
CC72593		<20	0.04	<10	<10	69	<10	156
CC72594		<20	0.04	<10	<10	57	<10	150

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CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC72595		0.22	0.008	0.5	2.60	17	<10	330	1.0	<2	1.06	<0.5	8	39	27	3.48
CC72596		0.22	0.010	0.6	2.09	24	<10	330	0.8	<2	0.67	<0.5	9	32	12	3.31
CC72597		0.26	0.011	0.6	0.72	52	<10	190	<0.5	3	10.45	0.7	5	10	13	2.10
CC72598		0.28	0.006	0.6	1.07	27	<10	200	0.5	<2	6.85	0.7	6	18	13	2.20
CC72599		0.16	0.003	0.3	1.20	15	<10	150	<0.5	<2	6.09	1.6	5	18	14	2.00
CC72600		0.24	0.006	0.5	1.57	28	<10	270	0.6	<2	3.19	1.0	6	24	14	2.99

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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC72595		10	<1	0.17	20	0.88	490	1	0.03	23	1020	19	0.04	<2	4	23
CC72596		<10	<1	0.10	20	0.60	688	1	0.01	25	720	23	0.01	<2	4	20
CC72597		<10	<1	0.10	10	7.23	696	1	0.01	11	980	42	0.01	4	2	37
CC72598		<10	1	0.11	10	4.60	632	1	0.01	15	770	25	0.01	2	2	30
CC72599		<10	<1	0.09	10	3.86	568	1	0.01	14	920	60	0.04	<2	2	22
CC72600		<10	<1	0.12	10	1.83	570	1	0.01	19	1220	36	0.03	3	3	25

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

Finalized Date: 13-OCT-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09105687

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC72595		<20	0.04	<10	<10	80	<10	84
CC72596		<20	0.03	<10	<10	57	<10	134
CC72597		<20	0.01	<10	<10	25	<10	203
CC72598		<20	0.02	<10	<10	36	<10	146
CC72599		<20	0.02	<10	<10	41	<10	267
CC72600		<20	0.02	<10	<10	50	<10	206

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE VA09105685

Project: RAU

P.O. No.: Batch 68

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105685

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G284311		0.40	0.23	0.53	0.11	>10000	20	<0.05	69.7	3.06	0.04	44.1	2.6	1	0.16	10.0
G284312		1.22	2.49	0.26	0.48	>10000	30	0.21	368	1.32	0.12	22.4	4.4	<1	3.08	12.1
G284313		1.60	86.7	1.95	1.19	>10000	30	0.29	891	0.57	0.04	80.5	4.7	8	2.72	9.6
G284314		1.92	19.15	0.35	0.07	>10000	20	0.13	327	0.02	<0.02	1.67	0.4	<1	0.78	5.9
G284315		0.28	6.08	1.91	0.10	>10000	20	<0.05	342	12.05	0.79	56.3	1.5	2	0.70	16.8
G284316		2.70	5.13	0.32	0.30	>10000	70	<0.05	217	1.15	0.08	1.29	0.4	<1	0.81	15.4
G284317		3.68	0.05	0.07	0.07	809	20	0.20	1.18	18.20	0.06	1.37	0.7	1	0.14	3.6
G284318		4.96	0.06	0.13	0.94	731	130	0.27	2.46	17.35	0.04	14.90	1.9	9	12.25	3.5
G284319		5.10	1.12	0.43	0.20	1200	40	0.16	53.0	15.85	0.05	6.03	1.2	2	2.52	5.4
G284320		8.80	8.05	0.21	0.04	>10000	10	0.09	271	8.37	0.03	4.36	0.4	<1	0.42	7.7
G284321		2.46	8.04	0.31	0.29	>10000	40	0.06	299	6.15	0.03	4.84	0.6	<1	2.99	6.5
G284322		7.10	6.48	0.19	1.05	>10000	50	0.13	307	8.47	0.05	15.40	0.6	2	7.53	4.6
G284323		6.02	7.83	0.14	0.18	7430	10	0.14	450	9.77	0.28	7.05	0.8	1	2.13	4.2
G284324		7.46	1.89	0.08	0.08	>10000	10	0.05	320	9.66	0.04	5.82	0.8	3	1.01	5.0
G284325		3.64	2.36	0.15	0.07	>10000	<10	0.19	351	8.67	0.03	6.42	0.5	<1	0.94	4.2
G284326		7.62	14.65	0.27	0.08	>10000	10	0.95	644	8.03	0.19	5.25	<0.1	<1	0.98	8.6
G284327		7.70	3.15	0.13	0.05	>10000	10	<0.05	395	8.12	0.03	7.83	0.6	<1	0.50	5.3
G284328		7.34	4.62	0.14	0.05	>10000	10	0.10	194.5	10.75	0.05	7.55	0.3	<1	0.52	4.7
G284329		7.08	3.47	0.13	0.03	>10000	<10	0.15	171.5	9.96	0.03	5.11	<0.1	<1	0.37	4.9
G284330		6.70	6.25	0.11	0.05	>10000	<10	0.15	257	10.85	0.15	7.07	<0.1	<1	0.31	4.7
G284331		9.24	1.62	0.10	0.06	>10000	<10	0.05	257	11.90	0.04	12.70	0.6	1	0.31	5.0
G284332		3.62	0.01	0.08	0.11	97	20	0.18	0.95	18.95	0.06	2.16	0.9	1	0.38	3.4
G284333		1.44	0.43	0.06	0.05	6510	10	0.17	34.2	18.50	0.04	4.30	0.6	2	0.12	5.5
G284334		9.30	5.29	0.25	0.06	>10000	10	<0.05	185.0	9.15	0.09	14.95	<0.1	<1	0.23	5.9
G284335		3.80	2.56	0.30	0.07	>10000	10	0.45	567	11.15	0.15	5.18	0.1	<1	0.24	6.0
G284336		6.16	1.05	0.08	0.23	>10000	40	0.32	55.4	13.85	0.06	4.86	1.5	3	2.40	4.6
G284337		3.38	0.01	0.26	0.25	161	150	0.16	46.6	16.30	0.05	2.41	27.1	9	1.15	184.5
G284338		2.60	0.06	0.18	5.89	76	250	1.95	7.72	10.30	0.02	22.6	35.1	189	30.4	105.5
G284339		2.76	0.03	0.12	0.87	61	250	0.33	0.45	24.6	0.04	6.86	3.7	22	2.31	12.8
G284340		0.28	6.05	0.20	0.12	>10000	30	0.13	469	8.22	<0.02	38.6	1.8	13	0.79	42.6
G284341		3.50	0.01	0.02	0.07	105	10	0.06	0.79	33.5	0.06	3.98	0.5	2	0.14	6.2
G284342		2.84	<0.01	0.10	5.01	99	130	0.65	0.32	12.80	0.12	26.8	33.6	102	2.12	54.1
G284343		2.06	<0.01	0.04	1.31	35	230	0.22	0.16	26.4	0.03	11.00	7.3	58	0.46	12.6
G284344		0.32	2.21	0.47	0.36	>10000	120	0.22	47.8	15.45	0.30	11.35	1.5	5	0.58	6.9
G284345		0.52	0.44	0.30	0.09	>10000	20	0.21	17.25	16.00	0.09	3.35	0.6	<1	0.19	4.9
G284346		0.76	1.37	3.20	0.24	>10000	80	0.07	81.6	12.85	0.25	5.85	1.8	7	0.78	10.6

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105685

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284311		23.1	1.06	0.23	0.2	<0.1	0.082	0.03	23.8	0.7	7.45	1680	0.28	0.02	0.6	8.6
G284312		37.2	4.30	0.63	0.6	<0.1	0.248	0.31	8.1	3.0	1.65	6810	0.77	0.01	2.8	28.2
G284313		27.6	8.10	0.73	1.1	<0.1	0.298	0.82	55.0	4.1	1.45	2100	0.26	0.01	5.7	6.9
G284314		29.8	1.14	0.76	0.1	<0.1	0.226	0.05	1.0	0.7	0.26	11	0.19	<0.01	0.6	0.8
G284315		16.85	1.03	0.29	0.1	<0.1	0.107	0.06	37.6	1.8	6.93	2220	6.36	<0.01	0.6	6.3
G284316		27.4	1.85	0.43	0.3	<0.1	0.291	0.18	0.6	2.5	0.67	51	0.25	0.01	1.8	5.7
G284317		0.51	0.26	0.06	<0.1	<0.01	0.011	0.03	0.8	1.1	11.50	178	0.19	0.01	0.3	<0.2
G284318		2.00	3.24	0.07	0.4	<0.1	0.016	0.77	9.4	10.9	10.60	692	0.15	0.02	7.0	3.7
G284319		7.48	0.95	0.10	0.1	<0.1	0.032	0.15	3.6	4.1	9.16	824	0.09	0.01	0.9	1.1
G284320		21.2	0.37	0.19	<0.1	<0.1	0.112	0.03	1.8	1.8	4.62	1590	0.10	0.01	0.3	<0.2
G284321		30.5	2.05	0.22	0.1	<0.1	0.118	0.22	1.9	2.6	3.22	1070	0.06	0.01	1.0	0.9
G284322		18.75	4.00	0.30	0.5	<0.1	0.130	0.99	8.8	11.2	4.94	1330	0.07	0.02	9.3	1.9
G284323		20.2	1.35	0.15	0.1	<0.1	0.047	0.15	3.3	2.5	5.34	1560	0.06	0.01	1.0	1.0
G284324		21.3	0.68	0.18	<0.1	<0.1	0.058	0.07	2.5	1.8	5.50	1310	0.10	0.01	0.3	<0.2
G284325		21.5	0.65	0.16	<0.1	<0.1	0.047	0.07	3.0	1.6	5.03	1150	0.05	0.01	0.4	<0.2
G284326		25.1	0.88	0.43	<0.1	<1	0.051	0.07	2.3	1.9	4.43	1300	0.11	0.01	0.4	<0.2
G284327		23.3	0.46	0.18	<0.1	<0.1	0.099	0.04	3.8	1.3	4.67	1520	0.06	0.01	0.4	0.3
G284328		18.25	0.46	0.14	<0.1	<0.1	0.097	0.04	3.7	2.0	5.98	2310	0.07	0.01	0.3	<0.2
G284329		16.40	0.60	0.32	<0.1	<0.1	0.101	0.03	2.2	2.1	5.54	1890	<0.05	0.01	0.3	<0.2
G284330		16.75	0.67	0.27	0.1	<0.1	0.104	0.02	3.0	2.0	6.38	2130	0.15	0.01	0.4	<0.2
G284331		15.05	0.45	0.15	<0.1	<0.1	0.091	0.02	6.9	1.8	7.08	1560	0.06	0.01	0.3	<0.2
G284332		0.47	0.33	0.07	<0.1	<0.1	0.010	0.06	1.1	1.9	12.00	193	3.18	0.01	0.6	<0.2
G284333		3.70	0.25	0.05	<0.1	<0.01	0.031	0.01	2.5	2.1	11.45	769	0.06	0.01	0.2	<0.2
G284334		21.5	0.61	0.37	<0.1	<0.1	0.153	0.03	8.4	1.7	5.09	1900	0.09	0.01	0.4	<0.2
G284335		17.80	0.69	0.42	<0.1	<0.1	0.055	0.02	2.2	1.8	6.61	1580	0.11	0.01	0.2	<0.2
G284336		10.50	1.46	0.09	0.1	<0.1	0.086	0.17	2.4	3.5	8.28	1820	0.06	0.01	0.8	1.7
G284337		5.94	0.85	0.07	0.1	<0.01	0.019	0.12	1.4	6.0	9.82	842	0.48	0.03	0.5	12.4
G284338		4.64	15.65	0.12	0.3	<0.01	0.032	3.54	11.1	65.7	4.23	433	0.58	0.10	10.5	120.5
G284339		1.79	2.09	0.06	0.2	<0.1	0.026	0.46	4.2	8.9	4.45	571	0.32	0.02	2.5	10.2
G284340		23.4	1.04	0.23	0.1	<0.1	0.100	0.08	24.6	2.0	4.71	1430	11.35	0.01	1.4	12.2
G284341		0.35	0.30	0.05	<0.1	<0.01	0.023	0.05	4.3	0.9	0.94	211	0.14	<0.01	0.3	<0.2
G284342		6.49	12.25	0.11	0.6	<0.1	0.031	2.67	13.6	29.7	1.24	130	0.26	0.04	9.5	92.9
G284343		1.50	2.91	0.07	0.3	<0.01	0.013	0.73	7.8	7.0	0.57	161	1.19	0.01	2.3	15.1
G284344		11.50	1.43	0.12	0.2	<0.1	0.078	0.16	7.6	5.3	7.07	1270	5.91	0.02	0.6	0.9
G284345		8.30	0.51	0.08	<0.1	<0.1	0.074	0.04	2.3	2.4	8.84	1360	0.35	0.01	0.2	<0.2
G284346		17.65	0.76	0.15	<0.1	<0.1	0.146	0.14	3.6	3.3	7.15	2700	0.83	0.03	0.7	2.9

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Project: RAU

Finalized Date: 16-OCT-2009
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CERTIFICATE OF ANALYSIS VA09105685

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284311		170	3.2	2.2	<0.002	0.18	9.46	0.8	6	0.2	36.4	0.05	0.15	0.9	<0.005	0.05
G284312		540	6.6	65.3	<0.002	0.85	78.3	2.2	6	1.1	66.3	0.19	0.43	0.7	0.028	0.51
G284313		360	9.0	54.3	<0.002	8.15	86.2	2.0	10	4.2	32.8	0.40	1.86	1.9	0.064	0.34
G284314		50	3.3	5.0	<0.002	>10.0	85.6	1.0	9	0.6	2.9	<0.05	0.89	<0.2	0.006	0.06
G284315		110	16.1	7.4	0.004	>10.0	23.2	0.4	6	1.3	88.6	<0.05	0.94	0.5	0.009	0.08
G284316		90	9.2	11.2	<0.002	>10.0	55.7	0.7	5	0.8	7.0	0.09	0.53	0.4	0.015	0.15
G284317		310	1.9	1.3	0.003	0.10	0.31	0.3	2	<0.2	49.4	<0.05	0.06	<0.2	<0.005	<0.02
G284318		220	2.7	70.9	0.002	0.53	1.56	1.6	2	0.5	63.4	0.38	0.09	1.5	0.077	0.62
G284319		170	3.8	12.4	0.003	7.96	8.11	0.5	2	0.2	58.1	<0.05	0.11	<0.2	0.016	0.15
G284320		60	3.4	2.0	0.003	>10.0	40.0	0.3	5	0.2	62.8	<0.05	0.76	<0.2	<0.005	0.04
G284321		130	4.4	28.7	0.003	>10.0	45.1	0.7	6	0.4	47.5	0.05	0.54	<0.2	0.017	0.25
G284322		140	3.7	120.5	<0.002	>10.0	23.2	0.8	3	1.0	63.8	0.54	0.41	1.7	0.048	0.62
G284323		140	5.1	33.8	0.003	>10.0	17.65	0.5	5	0.4	68.4	0.05	0.32	0.2	0.017	0.17
G284324		80	3.2	16.3	0.004	>10.0	8.92	0.4	5	0.2	63.6	<0.05	0.57	<0.2	0.005	0.09
G284325		70	2.8	15.1	0.003	>10.0	9.40	0.4	5	0.2	54.8	<0.05	0.46	<0.2	0.005	0.08
G284326		60	4.2	15.4	<0.002	>10.0	32.9	0.4	5	0.5	57.4	<0.05	0.63	<0.2	0.007	0.11
G284327		80	3.9	6.5	0.003	>10.0	33.8	0.3	5	0.2	62.1	<0.05	0.89	<0.2	0.005	0.08
G284328		60	3.6	6.1	0.003	>10.0	20.8	0.3	4	0.3	88.3	<0.05	0.41	<0.2	<0.005	0.05
G284329		80	3.3	3.6	<0.002	>10.0	19.60	0.5	5	0.5	72.1	<0.05	0.52	<0.2	<0.005	0.02
G284330		70	3.7	3.8	<0.002	>10.0	20.4	0.4	4	0.6	73.6	<0.05	0.21	0.2	<0.005	0.02
G284331		70	3.4	3.4	0.005	>10.0	20.5	0.4	5	0.2	68.7	<0.05	0.65	<0.2	<0.005	0.05
G284332		210	1.5	3.0	0.003	0.07	0.15	0.3	1	<0.2	66.8	<0.05	0.05	0.2	<0.005	0.02
G284333		60	2.1	0.9	0.002	3.20	5.50	0.2	2	<0.2	47.0	<0.05	0.10	<0.2	<0.005	0.03
G284334		60	4.2	3.4	<0.002	>10.0	22.6	0.4	4	0.5	67.4	<0.05	0.22	0.3	0.006	0.05
G284335		90	4.6	1.6	<0.002	>10.0	16.80	0.7	6	0.4	71.1	<0.05	0.74	<0.2	<0.005	0.11
G284336		120	2.7	22.1	0.004	8.80	8.16	0.7	3	0.3	78.7	<0.05	0.16	0.2	0.018	0.21
G284337		40	5.9	13.4	0.003	3.56	0.83	1.0	3	0.3	72.8	<0.05	0.20	0.2	0.019	0.10
G284338		660	3.4	268	0.003	3.54	1.82	19.1	2	2.9	58.2	0.58	0.15	1.3	0.474	2.53
G284339		60	2.3	18.2	0.003	1.01	0.99	2.5	3	0.4	297	0.14	0.08	0.7	0.062	0.25
G284340		60	7.2	8.9	0.006	>10.0	25.4	0.4	9	2.2	63.8	0.09	1.57	0.4	0.008	0.18
G284341		10	1.9	1.5	0.003	0.19	0.14	0.4	2	0.2	171.5	<0.05	0.07	<0.2	0.005	0.03
G284342		680	10.2	54.4	0.002	7.15	1.45	15.8	1	0.6	139.5	0.50	<0.05	1.7	0.325	0.59
G284343		40	3.5	13.1	0.004	1.43	0.38	4.3	2	0.2	237	0.11	0.07	0.5	0.090	0.15
G284344		50	8.8	8.2	0.005	0.32	7.35	0.8	3	0.5	83.7	<0.05	0.18	0.5	0.016	0.16
G284345		70	4.8	4.7	0.002	0.26	4.02	0.2	3	2.1	50.5	<0.05	0.08	<0.2	<0.005	0.06
G284346		80	9.3	4.7	0.003	3.74	7.10	0.9	4	1.5	40.6	<0.05	0.21	0.2	0.022	0.11

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105685

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
G284311		0.3	6	102.5	9.8	19	4.5	2.04
G284312		0.9	18	112.0	14.7	25	20.1	5.39
G284313		1.9	22	239	5.0	8	39.9	12.30
G284314		0.1	3	150.0	0.2	<2	4.5	15.10
G284315		0.7	5	210	7.1	132	3.4	1.92
G284316		0.2	3	298	0.7	5	9.8	15.20
G284317		0.6	<1	0.4	0.9	14	<0.5	
G284318		0.3	12	2.4	7.1	14	15.2	
G284319		0.1	8	9.7	4.6	10	4.0	
G284320		0.2	3	36.5	4.6	7	1.4	4.79
G284321		0.6	7	142.5	5.3	5	5.2	3.80
G284322		0.5	8	16.8	5.7	10	18.0	6.08
G284323		0.3	6	40.5	5.2	41	5.5	
G284324		0.1	4	21.9	5.5	8	1.6	1.30
G284325		0.1	3	24.2	4.7	7	1.6	1.16
G284326		0.2	5	181.5	4.4	7	2.6	2.17
G284327		0.2	3	16.3	4.9	8	1.9	4.85
G284328		0.1	3	58.2	4.3	12	1.4	4.68
G284329		0.2	2	8.4	4.2	9	1.3	6.30
G284330		0.2	2	53.7	5.7	24	2.0	5.42
G284331		0.2	3	2.7	5.8	10	1.7	3.76
G284332		0.5	1	0.1	1.0	15	<0.5	
G284333		0.1	2	4.1	3.1	10	1.2	
G284334		0.2	2	147.0	4.1	7	2.1	7.45
G284335		0.2	3	79.5	5.3	15	1.0	1.27
G284336		3.1	5	77.9	4.8	12	4.8	3.17
G284337		1.4	8	1.3	3.0	13	2.5	
G284338		0.4	126	5.5	13.3	22	10.1	
G284339		0.2	7	0.5	3.6	16	8.0	
G284340		0.5	5	37.1	4.6	11	5.6	1.88
G284341		0.5	<1	0.1	5.1	14	0.8	
G284342		0.5	96	0.2	12.1	40	22.2	
G284343		0.4	12	<0.1	6.6	13	9.9	
G284344		0.3	6	323	3.4	73	6.5	1.92
G284345		0.2	12	116.0	3.6	29	1.1	1.69
G284346		0.7	9	91.7	6.4	45	1.8	1.70

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105685

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE VA09105684

Project: RAU

P.O. No.: Batch 69

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105684

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
G284347		0.58	0.11	0.58	0.13	5120	40	0.14	13.55	15.40	0.54	7.18	0.9	1	0.24	5.2
G284348		2.20	1.46	5.08	0.20	>10000	180	0.23	68.1	9.96	0.51	8.13	1.6	<1	0.54	4.5
G284349		6.88	8.85	8.96	0.19	>10000	10	<0.05	239	3.23	0.13	2.37	1.3	2	0.32	<0.2
G284350		3.32	0.01	0.10	0.12	118	20	<0.05	0.60	18.80	0.06	2.06	0.7	1	0.31	1.9
G284351		9.24	4.83	0.22	0.08	>10000	20	0.06	392	8.95	0.07	4.92	1.4	1	0.13	5.1
G284352		8.34	3.42	0.44	0.04	>10000	10	<0.05	313	11.40	0.10	4.83	1.2	<1	0.13	4.2
G284353		11.32	0.72	0.86	0.03	4340	10	0.06	184.0	12.55	0.14	10.40	0.7	1	0.18	2.9
G284354		13.50	0.96	0.58	0.04	5940	10	<0.05	257	12.80	0.26	8.68	1.3	1	0.16	4.3
G284355		13.36	0.61	0.24	0.24	3620	110	0.18	185.5	13.60	0.18	11.10	1.9	2	0.44	3.3
G284356		14.02	2.71	0.27	0.12	>10000	80	0.11	431	10.60	0.48	7.64	1.8	1	0.31	3.8
G284357		11.18	0.66	0.30	0.11	>10000	30	0.14	34.6	14.65	0.41	5.43	1.0	1	0.21	1.3
G284358		5.00	0.14	0.25	0.05	3990	10	0.09	49.8	16.60	0.78	5.96	0.8	1	0.30	1.7
G284359		0.28	1.66	1.64	0.10	>10000	20	<0.05	313	11.65	0.78	56.8	1.5	6	0.64	16.3
G284360		10.28	0.08	0.18	0.09	3510	20	0.12	23.2	14.70	1.97	8.51	1.8	<1	0.20	1.8
G284361		2.28	<0.01	0.04	1.81	43	700	0.43	0.66	24.3	0.03	16.70	7.8	61	0.75	10.7
G284362		3.14	<0.01	0.06	2.54	23	600	0.53	0.32	22.3	0.04	31.8	15.5	173	1.34	13.7
G284363		3.66	<0.01	0.03	1.37	14	290	0.27	0.20	24.5	0.04	24.3	11.8	105	0.60	8.0
G284364		4.68	<0.01	0.06	2.36	16	480	0.47	0.14	20.1	0.05	28.6	15.8	212	1.35	12.9
G284365		5.04	<0.01	0.05	3.55	12	550	0.67	0.16	16.60	0.04	33.3	21.3	155	2.35	20.3
G284366		3.64	<0.01	0.05	0.08	31	20	<0.05	0.69	19.30	0.06	1.78	0.8	3	0.15	1.9
G284367		5.36	<0.01	0.07	1.79	22	470	0.36	0.22	19.60	0.05	24.3	8.3	66	0.62	8.8
G284368		3.74	<0.01	0.02	0.63	19	180	0.10	0.14	33.7	0.02	12.10	3.3	29	0.19	4.2
G284369		2.70	<0.01	0.07	2.03	14	360	0.32	0.13	23.9	0.06	31.8	8.6	58	3.35	13.2
G284370		4.18	<0.01	0.06	2.85	10	340	0.50	0.13	18.05	0.03	31.1	15.7	160	4.43	12.9
G284371		5.36	<0.01	0.09	2.05	11	250	0.34	0.08	22.9	0.07	30.3	12.9	139	3.70	11.8
G284372		1.72	<0.01	0.05	3.32	23	330	0.55	0.14	20.1	0.03	34.4	20.0	131	5.16	19.2
G284373		0.82	<0.01	0.04	3.89	20	400	0.63	0.14	19.20	0.03	37.6	23.1	136	6.84	21.4
G284374		3.66	<0.01	0.04	1.79	<5	200	0.42	0.05	24.9	0.05	16.15	8.2	72	1.72	12.6
G284375		5.20	<0.01	0.05	2.04	8	170	0.45	0.07	22.8	0.05	18.50	6.3	73	2.18	9.8
G284376		2.60	<0.01	0.04	1.42	9	120	0.33	0.13	29.4	0.03	10.95	4.2	53	0.89	7.9
G284377		5.32	<0.01	0.01	0.61	13	40	0.14	0.05	32.8	0.05	4.80	2.0	24	0.36	3.4
G284378		0.28	5.35	0.29	0.11	>10000	20	<0.05	453	8.09	0.05	37.0	1.7	13	0.74	39.5
G284379		8.12	0.49	8.92	0.26	4300	40	0.12	154.0	12.80	4.33	9.78	2.6	<1	0.47	6.0
G284380		6.40	0.10	0.85	0.14	4550	10	0.11	18.55	15.25	3.84	6.16	1.2	<1	0.25	2.8
G284381		5.84	0.66	0.54	0.07	>10000	10	0.11	154.5	14.05	3.29	9.18	1.7	<1	0.18	3.3
G284382		11.42	1.04	1.37	0.20	>10000	30	0.08	96.4	12.65	2.46	8.12	1.7	1	0.49	3.0

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Project: RAU

Finalized Date: 20-OCT-2009
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CERTIFICATE OF ANALYSIS VA09105684

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284347		12.45	0.59	0.08	<0.1	<0.1	0.163	0.04	4.0	1.9	5.90	3940	1.61	<0.01	0.2	3.3
G284348		22.3	1.31	0.13	0.1	<0.1	0.305	0.07	3.9	2.0	5.40	2810	0.48	<0.01	0.7	4.1
G284349		32.9	1.30	0.25	0.1	<0.1	0.297	0.09	1.0	0.7	1.56	1040	0.52	<0.01	0.8	4.7
G284350		0.50	0.37	0.05	<0.1	<0.01	<0.005	0.06	1.0	2.0	11.90	193	0.16	<0.01	0.7	<0.2
G284351		22.6	0.49	0.12	0.1	<0.1	0.085	0.04	1.9	0.9	4.97	1730	0.18	<0.01	0.5	4.3
G284352		16.45	0.30	0.11	<0.1	<0.1	0.075	0.02	2.4	1.3	6.90	1140	0.12	<0.01	0.3	2.0
G284353		12.85	0.29	0.12	<0.1	<0.1	0.120	0.01	5.1	1.4	7.38	2350	0.22	<0.01	0.2	<0.2
G284354		13.95	0.29	0.11	<0.1	<0.1	0.108	0.02	4.1	1.5	7.57	1940	0.27	<0.01	0.2	3.2
G284355		11.75	1.42	0.10	0.2	<0.1	0.120	0.08	4.7	2.3	7.96	2470	0.16	<0.01	1.1	5.1
G284356		19.85	0.66	0.12	0.1	<0.1	0.109	0.04	3.1	1.4	6.09	2580	0.10	<0.01	0.7	4.4
G284357		11.75	0.71	0.07	0.1	<0.1	0.081	0.04	2.7	1.9	8.68	2930	0.19	<0.01	0.3	1.0
G284358		7.89	0.33	0.06	<0.1	<0.1	0.125	0.02	2.7	2.4	9.98	3590	0.13	<0.01	0.1	<0.2
G284359		16.05	0.86	0.14	0.1	<0.1	0.093	0.06	36.7	1.6	6.64	2100	5.36	0.01	0.4	5.7
G284360		11.30	0.53	0.08	<0.1	<0.1	0.067	0.02	4.1	2.2	8.92	3550	0.36	<0.01	0.2	2.6
G284361		2.06	4.74	0.05	0.5	<0.01	0.015	1.13	9.8	14.3	0.94	317	0.98	<0.01	9.3	26.1
G284362		3.11	6.56	0.06	0.3	<0.01	0.026	1.40	16.4	20.3	1.53	513	0.38	0.03	16.0	45.7
G284363		2.17	3.89	0.06	0.2	<0.01	0.020	0.82	12.3	12.5	1.04	539	0.31	<0.01	11.0	27.7
G284364		3.68	5.92	0.07	0.2	<0.01	0.035	1.44	14.5	21.0	1.47	476	0.50	0.05	15.4	44.8
G284365		4.15	9.07	0.08	0.3	<0.01	0.040	2.12	17.3	27.6	1.70	395	0.35	0.03	18.7	60.7
G284366		0.42	0.27	0.06	<0.1	<0.01	0.009	0.04	0.9	1.2	12.25	180	0.33	0.01	0.5	<0.2
G284367		2.63	4.16	0.07	0.5	<0.01	0.022	1.05	14.2	12.8	6.17	258	0.92	0.03	9.0	23.3
G284368		1.16	1.53	0.05	0.2	<0.01	0.011	0.39	8.2	2.5	0.55	400	0.70	0.02	3.7	3.5
G284369		2.22	4.79	0.05	0.7	<0.01	0.020	1.40	18.4	19.7	1.21	289	0.68	0.06	15.2	25.5
G284370		3.76	6.92	0.08	0.5	<0.01	0.034	1.62	16.0	25.7	1.59	399	0.38	0.10	16.4	48.1
G284371		2.93	5.23	0.06	0.5	<0.01	0.027	1.16	15.5	16.0	1.44	469	0.39	0.07	15.0	40.4
G284372		3.22	8.19	0.08	0.4	<0.01	0.033	1.83	17.7	30.2	1.77	597	0.19	0.08	19.4	42.8
G284373		3.57	9.84	0.09	0.4	<0.01	0.046	2.24	19.4	37.2	2.03	583	0.28	0.11	24.1	49.6
G284374		2.01	4.21	0.05	0.4	<0.01	0.014	1.05	9.4	12.8	0.95	342	0.60	0.11	9.6	23.5
G284375		2.06	5.31	0.05	0.6	<0.01	0.018	1.24	11.4	18.1	0.97	158	1.55	0.11	12.7	27.2
G284376		1.38	3.55	<0.05	0.5	<0.01	0.007	0.87	6.7	10.4	0.63	124	1.75	0.01	7.2	21.0
G284377		0.67	1.54	<0.05	0.2	<0.01	<0.005	0.39	3.0	4.4	0.60	79	1.51	<0.01	2.7	8.5
G284378		22.8	1.07	0.17	0.1	<1	0.057	0.07	24.3	1.5	4.58	1400	11.35	<0.01	1.5	12.3
G284379		15.50	1.82	0.25	0.2	<0.1	0.149	0.09	4.0	1.8	7.21	5020	0.33	0.01	0.6	5.4
G284380		9.61	0.83	0.06	0.1	0.01	0.099	0.04	3.0	1.7	8.92	3530	0.11	<0.01	0.4	0.8
G284381		13.20	0.47	0.10	<0.1	<0.1	0.150	0.02	4.3	1.6	8.29	3360	0.21	<0.01	0.2	1.8
G284382		14.00	1.34	0.09	0.1	<0.1	0.100	0.08	3.7	1.7	7.36	3110	0.15	<0.01	0.7	2.7

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

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105684

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284347		60	5.2	4.5	<0.002	3.57	2.52	0.5	2	3.1	70.3	<0.05	0.08	<0.2	0.005	0.09
G284348		180	12.1	13.5	<0.002	8.95	10.75	0.6	6	5.7	58.6	<0.05	0.19	0.2	0.013	0.11
G284349		160	25.4	12.0	<0.002	>10.0	35.3	<0.1	5	6.9	18.0	0.05	1.15	<0.2	0.019	0.19
G284350		420	1.3	2.7	<0.002	0.08	0.10	0.3	2	<0.2	55.1	<0.05	<0.05	<0.2	0.005	<0.02
G284351		160	7.1	2.2	<0.002	>10.0	41.5	0.3	4	0.3	58.5	<0.05	0.51	<0.2	0.009	0.18
G284352		60	9.5	1.6	<0.002	>10.0	27.2	0.2	4	0.4	52.0	<0.05	0.60	<0.2	<0.005	0.14
G284353		40	11.0	1.1	<0.002	>10.0	9.18	0.3	3	0.5	85.6	<0.05	0.32	<0.2	<0.005	0.06
G284354		70	10.3	1.5	<0.002	>10.0	14.75	0.3	3	0.3	79.2	<0.05	0.30	<0.2	<0.005	0.11
G284355		180	6.0	7.7	<0.002	>10.0	8.91	0.7	3	0.7	94.3	0.06	0.27	<0.2	0.023	0.19
G284356		150	8.5	2.8	<0.002	>10.0	31.6	0.4	5	0.4	80.1	<0.05	1.44	<0.2	0.014	0.16
G284357		90	4.3	2.8	<0.002	8.16	6.91	0.6	2	0.3	81.9	<0.05	0.27	<0.2	0.006	0.14
G284358		60	14.5	1.8	<0.002	4.22	3.68	0.6	2	0.3	92.8	<0.05	0.12	<0.2	<0.005	0.05
G284359		110	14.6	7.0	0.004	>10.0	19.95	0.4	5	1.1	84.6	<0.05	0.73	0.5	0.007	0.07
G284360		90	13.5	2.5	<0.002	3.05	4.69	0.6	2	0.4	82.7	<0.05	0.09	<0.2	<0.005	0.05
G284361		170	3.0	26.6	<0.002	1.55	0.20	6.0	2	0.4	294	0.51	<0.05	1.4	0.202	0.16
G284362		530	2.7	31.2	<0.002	1.35	0.19	13.5	1	0.6	254	0.89	<0.05	1.8	0.359	0.19
G284363		330	2.8	17.9	<0.002	1.06	0.12	8.8	2	0.4	266	0.58	<0.05	1.2	0.247	0.11
G284364		310	3.0	30.4	<0.002	1.13	0.13	14.8	1	0.5	243	0.87	<0.05	1.5	0.498	0.22
G284365		430	3.1	48.9	<0.002	1.15	0.13	13.9	1	0.7	219	1.05	<0.05	2.1	0.482	0.26
G284366		240	1.6	1.6	<0.002	0.05	0.14	0.3	1	<0.2	49.6	<0.05	<0.05	<0.2	0.007	<0.02
G284367		330	3.7	22.8	0.002	2.50	0.29	6.1	1	0.5	161.0	0.48	<0.05	1.6	0.214	0.16
G284368		100	1.5	5.6	<0.002	0.68	0.14	3.1	2	0.2	284	0.17	0.07	0.6	0.092	0.03
G284369		420	3.2	30.0	<0.002	0.92	0.20	5.9	2	0.4	281	0.82	<0.05	2.3	0.255	0.13
G284370		350	4.8	31.7	<0.002	0.72	0.15	12.3	1	0.5	235	0.91	<0.05	1.7	0.526	0.13
G284371		460	2.9	22.7	<0.002	0.57	0.10	10.7	1	0.4	274	0.82	<0.05	1.6	0.385	0.07
G284372		570	2.7	37.6	<0.002	0.44	0.12	12.9	1	0.6	262	1.05	<0.05	2.2	0.459	0.13
G284373		690	3.1	49.3	<0.002	0.42	0.17	14.9	1	0.8	251	1.29	<0.05	2.6	0.532	0.18
G284374		170	2.7	19.7	<0.002	0.75	0.07	6.2	2	0.3	338	0.54	0.08	1.3	0.215	0.07
G284375		90	3.6	28.8	<0.002	1.07	0.10	6.6	2	0.5	428	0.73	<0.05	1.9	0.253	0.11
G284376		30	2.9	17.8	<0.002	1.06	0.17	4.5	2	0.4	480	0.38	<0.05	1.0	0.170	0.07
G284377		20	1.5	8.0	<0.002	0.58	0.13	1.9	2	<0.2	341	0.13	<0.05	0.4	0.067	0.06
G284378		60	6.7	8.4	0.003	>10.0	24.5	0.4	8	2.2	63.4	0.10	1.33	0.4	0.008	0.17
G284379		240	85.4	8.2	0.002	8.56	5.62	0.8	2	2.6	93.4	<0.05	0.14	<0.2	0.013	0.09
G284380		110	88.8	3.6	<0.002	4.69	2.79	0.4	2	1.5	80.3	<0.05	0.09	<0.2	0.008	0.06
G284381		70	32.6	1.7	<0.002	8.40	6.92	0.5	3	1.2	86.1	<0.05	0.42	<0.2	<0.005	0.07
G284382		120	105.0	6.9	0.002	>10.0	6.14	0.6	3	1.2	92.3	<0.05	0.42	<0.2	0.014	0.08

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105684

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
G284347		0.2	15	52.1	7.9	65	1.5	
G284348		0.7	14	8.4	7.8	90	5.1	2.34
G284349		0.5	6	80.9	1.8	20	5.2	6.05
G284350		0.6	1	0.2	1.2	12	<0.5	
G284351		0.6	5	95.7	3.9	15	3.3	3.21
G284352		0.2	8	59.8	4.3	17	2.9	1.40
G284353		0.1	5	38.5	6.6	31	1.7	
G284354		0.1	8	13.4	6.5	89	2.3	
G284355		0.3	11	2.3	8.9	55	7.5	
G284356		0.4	7	1.3	6.5	160	5.3	3.33
G284357		0.3	9	28.1	5.8	123	3.3	2.98
G284358		0.3	5	0.7	6.6	208	1.5	
G284359		1.0	5	182.0	6.7	140	3.0	1.68
G284360		0.6	8	1.7	9.0	439	2.3	
G284361		0.5	24	0.2	7.7	17	21.3	
G284362		0.3	69	0.2	10.5	20	14.1	
G284363		0.2	35	0.1	8.6	16	9.9	
G284364		0.2	73	0.1	9.9	35	5.6	
G284365		0.2	64	0.2	10.2	36	11.7	
G284366		0.7	1	0.4	1.0	17	0.5	
G284367		0.6	31	0.3	7.1	41	17.8	
G284368		0.3	8	0.2	7.5	5	7.5	
G284369		0.5	35	0.2	7.3	44	25.8	
G284370		0.2	67	0.3	9.3	41	16.4	
G284371		0.3	57	0.2	9.2	40	16.4	
G284372		0.3	69	0.2	12.1	34	15.9	
G284373		0.3	79	0.3	13.0	42	17.9	
G284374		0.4	23	0.1	6.8	20	17.4	
G284375		0.6	21	0.1	7.5	22	26.1	
G284376		0.7	10	<0.1	5.4	11	19.0	
G284377		0.8	4	<0.1	3.0	8	8.5	
G284378		0.5	5	34.5	4.6	9	5.9	4.58
G284379		0.7	6	8.5	10.0	1030	5.8	
G284380		0.5	3	0.9	6.2	746	3.8	
G284381		0.6	3	0.7	8.8	661	2.0	1.51
G284382		0.5	7	1.0	7.4	529	5.5	1.79

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105684

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE VA09105683

Project: RAU

P.O. No.: Batch 63

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09105683

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885481		7.02	0.06	7.25	0.32	1050	40	0.08	360	5.09	9.84	25.2	2.0	10	0.39	14.0
H885482		11.32	0.30	0.55	0.44	137	230	<0.05	23.2	17.35	0.11	6.08	2.0	21	0.96	7.0
H885483		3.66	0.03	0.54	0.25	145	150	0.17	3.66	18.00	1.55	5.66	1.0	10	0.65	4.0
H885484		2.86	0.05	1.37	0.91	113	330	0.36	8.48	17.05	4.12	9.22	3.3	24	2.49	6.9
H885485		3.90	0.17	5.47	1.29	749	610	0.54	49.3	16.00	13.50	19.00	7.9	40	5.63	19.3
H885486		4.24	0.03	2.43	1.55	337	190	0.58	23.7	17.95	14.00	15.15	4.6	21	5.36	12.9
H885487		8.64	0.25	0.60	0.68	211	60	0.28	97.0	16.40	3.00	10.75	3.3	10	2.15	8.4
H885488		0.28	1.63	1.60	0.10	>10000	20	<0.05	325	11.45	0.78	56.7	1.3	6	0.62	15.3
H885489		5.22	0.53	1.41	0.58	1760	90	0.22	105.5	16.60	5.68	11.80	2.4	16	3.97	16.1
H885490		10.96	0.11	9.52	0.25	4310	40	<0.05	70.4	16.85	9.66	15.85	3.2	6	1.04	22.4
H885491		10.64	0.05	2.23	0.97	63	30	0.30	286	14.35	1.27	12.95	3.3	18	6.54	9.7
H885492		5.62	<0.01	0.95	1.22	37	30	0.52	57.0	14.35	4.67	11.60	5.0	12	5.93	11.0
H885493		0.70	<0.01	0.14	0.20	21	20	0.08	3.97	14.60	2.21	16.45	4.9	4	1.49	6.1
H885494		0.54	0.03	0.79	10.65	234	2650	3.30	40.0	0.10	0.31	23.8	0.9	303	5.31	8.5
H885495		0.72	0.51	64.2	3.19	3120	550	0.48	615	0.40	5.99	23.4	11.9	18	3.38	87.2
H885496		5.34	0.06	45.0	4.20	4320	700	1.01	578	0.88	8.90	41.0	7.1	41	3.72	168.5
H885497		3.46	<0.01	0.09	0.08	13	20	0.11	0.97	19.40	0.06	1.38	0.7	1	0.22	0.9
H885498		6.76	0.07	1.37	0.37	902	10	<0.05	534	1.12	1.47	24.4	1.4	9	0.17	0.2
H885499		8.38	0.07	1.65	0.22	1075	10	<0.05	299	4.22	0.69	82.8	1.8	6	0.22	6.1
H885500		5.82	0.04	0.45	0.73	571	30	0.14	81.3	12.10	0.36	21.5	1.3	8	0.23	3.5
G284151		7.20	0.10	6.25	0.53	904	<10	0.08	498	0.40	0.38	153.0	2.1	9	0.09	5.2
G284152		7.42	0.35	13.65	0.08	2570	10	<0.05	786	0.94	0.95	156.5	0.6	3	0.16	3.0
G284153		12.40	0.24	18.90	0.24	1665	10	<0.05	702	0.34	13.70	47.8	1.4	5	0.15	6.4
G284154		0.28	0.57	0.90	0.78	4570	130	0.24	95.2	11.95	0.15	36.0	5.4	14	2.03	32.6
G284155		12.38	0.17	16.90	0.08	1410	30	<0.05	741	0.17	40.3	22.4	1.3	4	0.09	16.8
G284156		9.58	0.16	4.78	0.03	1725	70	<0.05	423	0.12	31.9	28.4	3.3	3	0.20	19.8
G284157		12.60	0.25	2.11	0.03	1740	30	<0.05	510	0.18	4.84	7.67	3.8	2	0.15	4.3
G284158		6.28	0.16	3.03	0.25	1250	10	<0.05	844	0.22	23.3	50.0	4.3	4	0.11	4.7
G284159		3.56	<0.01	0.03	0.06	12	10	0.06	2.43	18.85	0.10	1.67	0.8	2	0.15	1.1
G284160		4.28	0.01	0.22	6.30	187.0	990	1.79	28.3	1.21	0.15	195.5	23.3	52	11.50	8.6
G284161		5.28	0.02	0.18	6.89	198.5	160	2.47	285	0.91	0.04	55.8	26.9	54	4.56	9.9
G284162		2.48	<0.01	0.10	8.22	82.7	220	2.85	7.56	0.99	0.03	79.9	23.8	67	25.2	12.0
G284163		5.04	<0.01	0.10	3.34	24	160	0.86	3.12	14.95	0.06	76.0	14.1	19	43.1	15.0
G284164		9.64	2.60	0.51	1.06	1140	130	0.42	155.5	10.85	1.85	11.05	3.7	9	3.52	7.3
G284165		8.44	0.07	0.38	0.10	400	30	0.06	89.4	16.10	3.61	9.89	0.7	2	0.38	12.9
G284166		3.70	0.48	0.41	0.09	352	50	0.09	88.7	16.30	2.50	9.11	0.6	1	0.36	12.7

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105683

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885481		30.6	2.04	0.18	0.1	<1	0.961	0.03	15.7	1.0	2.84	575	0.15	0.01	0.4	13.7
H885482		5.26	1.87	0.24	0.2	<0.01	0.040	0.19	3.7	5.1	9.76	851	0.73	<0.01	2.5	6.5
H885483		1.41	0.81	<0.05	0.1	<0.01	0.045	0.11	3.8	2.1	10.05	1320	0.55	<0.01	1.1	1.9
H885484		2.91	3.09	0.06	0.4	0.01	0.054	0.33	5.2	3.6	9.65	2170	1.00	<0.01	3.7	13.6
H885485		10.30	6.81	0.11	0.4	<0.1	1.840	0.62	8.8	5.2	5.88	7350	1.57	0.01	3.2	34.4
H885486		6.83	7.05	0.08	0.8	0.01	0.428	0.66	6.2	5.4	6.51	4590	1.53	0.01	6.0	13.8
H885487		7.89	3.19	0.07	0.4	<0.01	0.107	0.28	4.2	2.7	7.58	4460	1.16	<0.01	2.5	8.2
H885488		15.85	0.84	0.13	0.1	<0.1	0.080	0.06	36.8	2.0	6.54	2110	5.67	<0.01	0.5	5.5
H885489		7.32	2.68	0.07	0.3	<0.1	0.102	0.31	4.6	3.7	8.74	4870	0.56	<0.01	1.9	6.9
H885490		6.24	1.66	0.07	0.2	0.01	0.760	0.09	7.8	1.7	8.84	6860	0.45	<0.01	0.9	8.1
H885491		5.66	6.03	0.06	0.5	<0.01	0.105	0.47	5.6	5.3	7.90	4030	0.42	0.02	2.2	12.2
H885492		5.55	6.86	0.06	0.7	<0.01	0.454	0.63	4.6	4.9	8.22	5040	0.79	<0.01	4.7	16.7
H885493		4.86	1.43	0.05	0.1	<0.1	0.021	0.09	6.7	1.7	8.00	3050	0.61	<0.01	0.5	11.2
H885494		3.66	51.7	0.09	2.0	<0.01	0.217	6.12	15.5	43.0	0.84	190	0.81	0.09	54.3	8.4
H885495		31.5	20.0	0.46	1.7	<0.1	0.961	1.42	9.8	10.8	1.48	2430	7.93	0.03	9.1	46.6
H885496		28.8	22.9	0.28	1.5	<0.1	2.09	1.43	20.4	12.8	0.90	2450	1.80	0.08	6.8	41.9
H885497		0.48	0.24	0.05	<0.1	<0.01	<0.005	0.04	0.7	1.1	12.30	193	0.06	<0.01	0.3	<0.2
H885498		30.3	2.58	0.30	0.3	<0.1	0.073	0.01	15.6	1.1	0.66	244	0.24	0.02	1.4	16.9
H885499		27.6	1.81	0.23	0.1	<0.1	0.091	0.01	58.3	1.1	2.38	550	0.11	0.01	0.6	17.3
H885500		11.10	4.05	0.08	0.5	<0.1	0.019	0.02	13.2	2.5	7.75	833	0.12	0.05	2.9	5.1
G284151		35.3	3.59	0.22	0.3	<0.1	0.036	0.01	99.6	0.9	0.37	141	0.13	0.04	0.9	12.8
G284152		37.6	0.98	0.32	0.1	<0.1	0.156	0.01	109.5	0.2	0.51	297	0.09	<0.01	0.4	5.8
G284153		38.5	1.84	0.24	0.2	<0.1	0.279	0.01	30.4	0.2	0.20	250	0.17	0.01	0.8	9.3
G284154		14.60	3.40	0.13	0.2	<0.1	0.065	0.39	20.6	5.9	6.58	2020	15.80	<0.01	3.3	21.9
G284155		42.2	0.78	0.23	<0.1	<0.1	1.110	0.01	14.2	<0.2	0.08	109	0.17	<0.01	0.3	9.9
G284156		41.5	0.35	0.22	<0.1	<1	0.045	0.01	18.1	0.6	0.08	586	0.13	<0.01	0.2	25.0
G284157		42.9	0.41	0.28	<0.1	<1	0.023	0.01	5.2	0.5	0.07	250	0.11	<0.01	0.2	18.6
G284158		41.6	1.64	0.19	0.1	<1	0.018	0.01	31.8	0.3	0.13	177	0.17	<0.01	0.4	17.3
G284159		0.54	0.19	<0.05	<0.1	<0.01	0.006	0.03	0.9	1.1	12.05	188	0.06	<0.01	0.3	<0.2
G284160		14.05	22.8	0.21	2.7	<0.01	0.034	3.67	103.5	14.2	1.84	165	0.29	0.12	27.8	81.3
G284161		14.50	26.8	0.15	0.7	0.01	0.044	3.44	23.8	25.0	0.98	46	0.27	0.08	24.2	89.6
G284162		7.96	30.6	0.14	0.3	<0.01	0.086	4.67	36.9	52.1	1.51	93	0.37	0.06	32.3	64.1
G284163		4.39	10.50	0.13	0.8	<0.01	0.017	2.42	43.0	35.3	6.95	764	0.21	0.01	15.3	30.8
G284164		17.75	4.99	0.14	0.5	<0.1	0.112	0.42	5.3	4.3	5.34	1790	0.16	<0.01	4.5	12.0
G284165		7.80	0.64	0.06	0.1	<0.1	0.163	0.04	4.3	2.1	9.61	2720	0.12	<0.01	0.3	<0.2
G284166		7.78	0.59	0.06	<0.1	<0.1	0.137	0.04	4.0	2.1	9.82	2580	0.13	<0.01	0.2	<0.2

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105683

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885481		70	130.0	4.9	0.005	>10.0	4.49	0.4	6	1.2	25.5	<0.05	0.73	0.2	0.014	0.20
H885482		60	5.6	8.6	<0.002	5.73	2.95	1.9	4	0.5	70.9	0.13	0.13	0.4	0.061	0.24
H885483		20	64.8	12.1	<0.002	0.32	1.40	1.0	2	2.3	65.3	0.06	<0.05	0.3	0.028	0.23
H885484		30	202	54.0	<0.002	0.28	3.78	2.5	1	7.2	65.5	0.22	0.06	0.8	0.090	0.76
H885485		70	402	97.9	<0.002	0.49	6.71	4.6	2	13.7	45.5	0.18	0.86	0.8	0.107	1.03
H885486		130	352	102.5	<0.002	0.70	7.96	4.5	2	5.0	67.5	0.36	0.21	1.0	0.127	1.05
H885487		80	112.0	46.0	<0.002	1.86	5.83	2.6	2	2.4	87.7	0.14	0.17	0.6	0.054	0.55
H885488		110	14.8	7.3	0.005	>10.0	19.80	0.4	4	1.1	81.8	<0.05	0.86	0.5	0.008	0.09
H885489		70	194.5	39.6	0.002	2.90	4.64	2.2	2	2.3	85.0	0.10	0.17	0.5	0.051	0.51
H885490		70	292	16.5	<0.002	2.53	6.15	1.5	2	7.8	90.2	0.05	0.27	0.3	0.022	0.28
H885491		70	53.2	99.5	0.005	3.64	5.47	3.6	2	2.4	81.5	0.12	0.38	0.9	0.063	0.72
H885492		200	63.0	109.5	0.003	1.41	2.83	3.2	2	6.1	70.8	0.28	0.11	1.7	0.083	0.79
H885493		50	2.2	15.0	<0.002	0.42	0.24	3.5	2	0.2	65.5	<0.05	0.07	0.2	0.010	0.49
H885494		1040	26.0	145.0	<0.002	0.91	3.12	29.0	1	29.6	81.9	3.23	0.17	6.9	1.135	1.38
H885495		1650	593	116.5	<0.002	1.14	50.2	3.0	5	19.2	16.9	0.57	0.74	5.7	0.092	0.81
H885496		1570	952	157.0	<0.002	0.47	44.5	3.9	5	64.0	24.8	0.35	0.66	6.3	0.139	0.90
H885497		260	2.6	1.6	<0.002	0.03	0.11	0.3	1	<0.2	52.0	<0.05	<0.05	<0.2	<0.005	<0.02
H885498		80	109.0	1.2	<0.002	>10.0	5.96	0.2	4	1.2	8.3	0.12	0.67	0.3	0.018	0.10
H885499		80	93.8	0.8	<0.002	>10.0	4.53	0.4	8	0.7	16.9	<0.05	0.71	0.4	0.009	0.14
H885500		150	29.3	1.3	0.002	>10.0	2.34	0.9	5	1.6	44.5	0.20	0.22	0.9	0.042	0.06
G284151		150	82.9	0.3	<0.002	>10.0	6.05	0.2	7	1.2	5.5	0.05	0.82	1.2	0.019	0.12
G284152		80	94.8	0.7	<0.002	>10.0	12.15	<0.1	13	1.8	5.5	<0.05	0.93	0.4	0.007	0.07
G284153		60	736	0.6	<0.002	>10.0	6.26	<0.1	8	5.0	3.4	<0.05	0.78	0.2	0.015	0.24
G284154		230	16.2	32.5	0.015	>10.0	4.33	1.8	6	3.1	87.9	0.21	0.21	0.8	0.087	0.30
G284155		30	1210	0.5	<0.002	>10.0	4.89	<0.1	5	7.5	1.3	<0.05	0.27	0.2	0.006	0.39
G284156		20	1050	0.6	<0.002	>10.0	17.15	<0.1	10	0.9	2.5	<0.05	0.69	0.2	<0.005	0.31
G284157		50	283	0.5	<0.002	>10.0	8.10	<0.1	7	0.4	1.1	<0.05	0.59	<0.2	<0.005	0.09
G284158		180	1105	0.8	<0.002	>10.0	6.01	<0.1	6	1.2	2.2	<0.05	1.19	0.2	0.016	0.72
G284159		200	3.6	1.3	<0.002	0.21	0.08	0.3	1	<0.2	57.7	<0.05	<0.05	<0.2	<0.005	<0.02
G284160		1750	18.1	264	<0.002	>10.0	1.05	12.8	2	16.5	31.6	1.72	0.30	7.0	0.963	1.60
G284161		970	12.3	148.0	<0.002	>10.0	3.41	15.2	2	9.0	21.4	1.54	1.03	5.0	0.803	1.03
G284162		1410	5.9	185.0	0.002	8.27	0.94	19.3	1	6.0	11.8	2.18	0.21	5.3	1.105	1.40
G284163		1660	2.6	257	0.002	3.49	0.68	8.4	1	2.6	63.7	0.94	0.05	2.5	0.489	2.68
G284164		380	128.5	37.3	0.007	>10.0	5.40	1.8	5	1.0	70.2	0.28	0.15	0.6	0.123	1.09
G284165		130	87.7	4.6	<0.002	6.89	4.15	1.0	3	1.1	99.7	<0.05	0.15	<0.2	0.008	0.13
G284166		110	87.7	4.6	<0.002	6.98	4.69	0.9	3	1.3	91.0	<0.05	0.16	<0.2	0.005	0.15

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CERTIFICATE OF ANALYSIS VA09105683

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885481		0.6	10	2260	2.8	2030	5.0	
H885482		0.3	11	15.0	3.9	30	8.9	
H885483		0.4	5	8.9	3.9	336	4.5	
H885484		0.7	10	4.7	4.6	1160	13.6	
H885485		1.7	23	50.0	13.4	2860	17.1	
H885486		1.6	29	6.1	14.6	2180	30.1	
H885487		0.8	11	6.1	10.7	523	15.0	
H885488		0.8	4	169.5	6.6	130	2.7	1.51
H885489		0.4	9	13.6	10.8	1180	11.0	
H885490		0.5	6	83.9	11.4	2060	6.7	
H885491		2.3	15	610	14.1	299	18.5	
H885492		1.3	15	377	12.7	1060	28.3	
H885493		0.5	4	16.3	18.7	512	4.0	
H885494		1.7	253	23.5	3.3	77	79.8	
H885495		4.0	25	440	15.2	3710	67.2	
H885496		3.6	55	121.0	19.5	4060	61.5	
H885497		0.6	1	0.7	1.0	23	<0.5	
H885498		0.6	12	4.0	1.2	464	9.8	
H885499		1.0	9	1.1	3.0	215	3.9	
H885500		0.9	12	9.6	4.3	112	16.4	
G284151		2.3	15	175.5	1.6	98	11.2	
G284152		2.3	3	315	1.4	307	3.4	
G284153		0.8	10	138.0	0.8	2840	6.1	
G284154		0.5	16	59.5	7.0	36	6.8	
G284155		0.5	3	13.4	0.4	6700	2.4	
G284156		0.5	1	1.5	0.4	6730	0.5	
G284157		0.4	2	36.1	0.3	1380	1.5	
G284158		0.8	10	1.7	0.8	5200	5.1	
G284159		0.8	<1	0.2	0.9	28	0.6	
G284160		3.6	94	37.3	7.4	92	89.2	
G284161		1.0	103	10.9	4.6	20	24.7	
G284162		0.5	121	9.4	8.1	23	11.6	
G284163		1.7	84	4.1	18.3	39	33.3	
G284164		0.8	23	4.1	6.7	482	19.8	
G284165		0.3	9	6.4	10.8	694	2.4	
G284166		0.3	8	0.8	10.0	510	1.7	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-OCT-2009
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CERTIFICATE OF ANALYSIS VA09105683

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
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Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE VA09105682

Project: RAU

P.O. No.: Batch 65

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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CERTIFICATE OF ANALYSIS VA09105682

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
G284203		2.00	0.01	3.43	6.31	109.5	1260	1.57	0.74	4.99	48.1	99.5	15.9	44	17.35	61.0
G284204		4.68	<0.01	2.23	6.67	120.0	50	1.83	0.87	4.28	30.6	80.6	19.5	44	10.40	21.6
G284205		7.40	0.01	1.60	4.49	39.2	80	1.05	0.09	9.85	14.05	61.0	25.7	25	6.67	26.3
G284206		7.96	<0.01	1.22	4.47	53.5	50	1.18	0.17	9.63	8.65	57.8	21.8	28	6.61	33.0
G284207		3.52	<0.01	0.09	0.12	<5	40	0.09	<0.01	19.25	0.15	2.00	0.9	2	0.21	4.2
G284208		8.58	<0.01	0.92	6.14	36.2	70	1.81	0.20	7.86	7.73	92.6	17.7	36	8.07	31.5
G284209		7.62	<0.01	0.54	5.92	30.3	650	1.77	0.19	9.21	5.10	86.7	17.9	32	10.70	46.3
G284210		2.96	0.01	0.07	6.21	33	350	2.27	0.06	11.25	0.32	90.4	24.3	36	13.15	53.8
G284211		4.78	<0.01	0.43	6.40	77	640	1.73	0.04	15.70	1.91	95.8	20.9	35	7.72	35.6
G284212		6.72	<0.01	0.37	7.38	80	1180	2.28	0.02	15.90	1.49	108.5	32.0	44	6.50	43.9
G284213		5.30	0.03	0.10	5.67	34	240	1.05	0.41	12.05	0.20	80.9	10.4	44	4.27	10.4
G284214		5.20	<0.01	0.07	1.02	15	160	0.29	0.28	19.05	0.06	16.65	1.6	8	0.87	2.0
G284215		2.38	0.01	0.11	1.01	11	150	0.33	0.26	18.50	0.06	16.15	1.5	9	0.91	2.0
G284216		4.70	<0.01	0.05	0.07	24	30	0.07	0.08	22.6	0.15	6.60	0.6	2	0.07	1.1
G284217		2.16	<0.01	0.32	0.08	88	30	0.16	1.07	18.30	1.89	6.76	0.8	1	0.34	2.8
G284218		4.78	0.01	0.17	0.09	32	40	0.10	45.5	20.9	0.66	6.45	0.6	3	0.15	2.2
G284219		3.46	<0.01	0.18	0.09	46	60	0.13	8.93	19.90	0.48	4.48	0.6	2	0.13	1.7
G284220		7.50	<0.01	0.07	5.21	13	600	1.63	0.10	21.5	0.31	70.8	32.3	32	5.36	33.0
G284221		7.36	<0.01	0.31	5.49	63	1530	1.86	0.07	18.15	1.29	75.9	38.2	33	7.77	31.0
G284222		6.72	<0.01	2.37	6.19	150.0	190	1.90	1.65	7.79	82.3	77.0	29.7	40	12.80	25.9
G284223		0.28	5.35	0.21	0.14	>10000	30	<0.05	463	8.36	0.11	39.9	1.6	15	0.80	42.5
G284224		4.78	0.02	3.09	5.62	134.5	190	1.87	4.04	8.64	44.5	68.5	43.0	29	10.40	31.4
G284225		1.84	0.12	1.72	0.60	1535	40	0.16	295	9.94	4.07	8.88	3.8	10	0.70	17.7
G284226		9.24	<0.01	0.17	0.07	23	70	0.16	1.44	19.15	0.44	2.47	0.8	2	0.15	2.3
G284227		7.88	0.01	0.17	0.05	9	40	0.19	0.72	18.00	0.42	1.61	0.6	2	0.18	1.8
G284228		7.80	<0.01	0.15	0.07	30	30	0.14	1.84	17.15	0.45	1.80	0.6	2	0.18	1.4
G284229		5.84	<0.01	0.15	0.15	29	50	0.14	2.01	13.90	0.23	4.37	0.7	10	0.46	4.9
G284230		8.06	0.01	2.24	0.07	194	20	0.18	11.70	17.25	7.04	3.37	0.7	2	0.13	6.3
G284231		6.76	0.03	3.85	0.11	220	100	0.19	19.60	18.20	15.90	3.45	1.0	2	0.25	17.3
G284232		3.10	0.18	0.55	7.20	141.5	90	1.96	12.75	4.73	0.63	29.1	48.6	210	13.55	50.7
G284233		3.70	<0.01	0.13	0.12	7	60	<0.05	0.69	19.60	0.43	1.62	1.0	3	0.32	2.7
G284234		6.24	0.16	5.39	0.95	181	60	0.44	20.4	16.15	23.1	5.79	8.0	30	0.89	11.4
G284235		5.06	0.07	6.13	0.52	55	100	0.46	8.73	17.50	56.1	7.03	4.2	15	1.15	17.6
G284236		3.16	0.01	1.95	5.67	40	170	1.91	0.50	10.05	23.8	64.1	17.1	32	11.45	49.1
G284237		0.28	0.47	0.88	0.79	5770	60	0.27	100.5	11.90	0.20	33.1	5.6	14	1.88	33.7
G284238		6.36	<0.01	0.33	0.12	23	600	0.19	0.55	19.15	1.55	1.83	0.8	3	0.29	2.9

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

Project: RAU

CERTIFICATE OF ANALYSIS VA09105682

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
G284203		7.24	18.80	0.21	0.5	0.08	0.096	2.93	50.2	9.8	2.20	1470	0.50	0.05	31.2	68.4
G284204		9.90	22.3	0.22	0.3	0.05	0.104	3.53	38.8	8.7	1.87	1480	0.43	0.03	28.4	87.2
G284205		6.95	13.90	0.16	2.2	0.02	0.062	2.03	32.2	3.7	5.67	1340	0.35	0.02	23.6	50.2
G284206		9.07	12.45	0.18	0.6	0.02	0.065	1.83	25.6	4.2	5.01	1700	0.52	0.02	24.4	64.1
G284207		0.46	0.36	0.08	<0.1	<0.01	0.007	0.05	1.0	1.2	12.10	202	0.11	0.01	0.5	2.5
G284208		8.05	17.05	0.22	0.2	0.01	0.088	2.79	47.3	7.5	3.90	979	0.31	0.03	36.9	68.2
G284209		9.36	15.45	0.20	0.7	0.02	0.058	2.34	45.3	6.4	4.48	1910	0.20	0.03	28.8	53.3
G284210		6.96	18.20	0.20	0.2	0.01	0.064	2.02	47.0	10.9	4.60	1180	0.33	0.02	37.0	94.0
G284211		3.16	17.35	0.18	0.5	0.01	0.085	2.59	49.7	7.6	1.58	1950	0.26	0.04	41.7	98.1
G284212		2.36	21.0	0.19	1.1	0.01	0.102	3.14	56.2	7.7	0.80	967	0.20	0.06	57.8	108.0
G284213		3.12	15.90	0.14	1.0	<0.01	0.031	2.68	48.6	13.2	7.71	336	0.37	0.11	50.3	34.9
G284214		0.70	2.97	0.09	0.3	<0.01	0.019	0.51	10.0	4.0	11.35	414	0.10	0.01	8.9	6.7
G284215		0.67	3.10	0.10	0.3	<0.01	0.018	0.51	9.5	4.3	11.15	388	0.10	0.01	9.3	6.6
G284216		0.56	0.35	0.11	<0.1	<0.01	0.042	0.03	4.3	1.0	9.40	683	0.06	<0.01	0.5	3.3
G284217		5.46	0.72	0.09	<0.1	<0.01	1.370	0.04	3.7	1.4	9.32	11650	0.09	<0.01	0.4	2.7
G284218		1.20	0.55	0.05	<0.1	<0.01	0.097	0.04	3.7	1.3	11.10	1900	0.13	<0.01	0.4	2.8
G284219		0.61	0.50	0.07	<0.1	<0.01	0.052	0.04	3.0	1.3	12.35	844	0.10	<0.01	0.4	1.8
G284220		1.61	15.50	0.14	0.4	0.01	0.071	1.73	37.0	11.2	0.72	845	0.11	0.04	39.1	62.4
G284221		3.27	16.50	0.14	0.3	0.01	0.072	1.94	39.5	14.4	1.18	1340	0.14	0.05	32.8	77.8
G284222		5.08	19.40	0.14	0.3	0.09	0.096	2.72	40.5	8.5	1.91	6020	0.18	0.02	29.9	71.9
G284223		23.7	1.04	0.25	0.1	<0.1	0.071	0.08	24.5	1.5	4.77	1460	11.40	0.01	1.4	13.5
G284224		7.27	18.10	0.14	0.4	0.04	0.063	2.43	32.8	3.8	3.05	5350	0.65	0.02	26.5	84.9
G284225		19.75	2.04	0.22	0.2	<0.1	0.053	0.19	3.7	1.1	6.10	816	4.51	0.02	2.7	22.5
G284226		0.53	0.33	0.07	<0.1	<0.01	0.017	0.02	1.3	2.3	12.15	477	10.70	0.01	0.3	4.4
G284227		0.28	0.27	0.10	<0.1	<0.01	0.019	0.02	1.0	2.8	11.30	477	1.83	0.01	0.2	2.2
G284228		0.68	0.34	0.08	<0.1	<0.01	0.012	0.02	1.2	2.1	11.05	377	2.06	0.01	0.3	2.6
G284229		1.33	0.67	0.05	0.1	<0.01	0.010	0.03	2.3	3.0	8.69	527	2.09	0.01	0.5	8.0
G284230		4.14	0.45	0.07	<0.1	0.02	0.014	0.01	1.7	3.0	10.60	1050	0.26	0.01	0.2	3.3
G284231		4.52	0.63	0.08	0.1	0.03	0.014	0.04	1.8	2.6	10.95	1540	1.16	0.01	0.4	5.1
G284232		6.46	23.0	0.15	0.5	<0.01	0.019	4.29	11.4	62.0	2.75	241	1.57	0.04	17.2	219
G284233		0.49	0.40	0.07	<0.1	<0.01	0.007	0.06	0.8	1.7	12.35	222	0.13	0.01	0.4	3.0
G284234		4.95	3.92	0.11	0.4	0.07	0.018	0.36	2.6	2.4	9.20	2790	1.49	0.02	2.6	35.2
G284235		3.92	3.45	0.11	0.3	0.11	0.022	0.18	3.6	1.5	8.59	7070	29.7	0.01	1.7	23.6
G284236		5.10	16.80	0.19	0.4	<0.1	0.076	2.28	29.3	5.1	3.64	4440	1.73	0.01	23.2	52.8
G284237		14.60	3.89	0.25	0.2	<0.01	0.070	0.39	18.5	4.4	6.61	2040	16.70	0.02	3.9	21.8
G284238		0.50	0.45	0.05	<0.1	0.01	0.013	0.05	1.0	1.1	11.55	1120	1.52	0.01	0.6	4.0

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Project: RAU

Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105682

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G284203		1290	1830	138.5	0.023	6.52	10.10	15.2	3	2.3	44.3	1.88	<0.05	3.5	1.010	1.92
G284204		1140	1550	117.0	0.016	9.20	8.78	16.6	2	2.6	29.8	1.72	<0.05	3.6	0.948	2.24
G284205		2310	1090	90.8	0.026	5.03	6.06	11.3	3	1.3	86.4	1.43	<0.05	3.0	0.741	1.48
G284206		1400	629	90.7	0.024	7.13	5.48	10.2	2	1.2	97.1	1.44	<0.05	2.7	0.773	1.36
G284207		250	8.6	2.1	0.002	0.05	0.08	0.4	2	<0.2	53.2	<0.05	0.05	<0.2	0.012	0.02
G284208		1180	691	116.5	0.007	5.40	4.09	14.7	2	1.8	87.1	2.16	<0.05	3.7	1.155	1.42
G284209		1590	194.0	113.5	0.008	1.28	3.06	13.7	2	2.3	80.1	1.75	<0.05	3.7	0.930	1.45
G284210		860	12.0	111.5	0.035	0.40	3.66	15.3	2	2.7	86.0	2.17	0.05	4.0	1.175	2.12
G284211		1090	234	90.6	0.018	0.39	12.90	16.1	2	1.9	96.8	2.48	0.08	4.0	1.325	1.54
G284212		1360	146.5	121.0	0.005	0.09	13.05	18.2	2	2.2	98.5	3.38	0.05	4.8	1.880	1.05
G284213		930	10.7	67.8	<0.002	3.41	2.16	7.1	2	3.1	68.3	2.80	0.06	8.8	0.438	0.49
G284214		210	4.1	13.6	0.002	0.55	0.70	1.5	2	0.8	61.9	0.50	0.05	1.5	0.086	0.11
G284215		190	3.8	13.9	<0.002	0.54	0.63	1.4	2	0.8	59.1	0.52	<0.05	1.6	0.083	0.12
G284216		50	2.5	1.0	<0.002	0.09	0.14	0.3	2	0.3	83.6	<0.05	<0.05	<0.2	0.006	<0.02
G284217		50	42.4	3.0	<0.002	1.03	0.23	0.4	2	3.0	58.8	<0.05	<0.05	0.2	0.005	0.03
G284218		60	29.8	2.7	0.002	0.48	1.96	0.5	3	1.4	79.2	<0.05	0.08	<0.2	0.006	0.05
G284219		70	8.6	2.7	0.002	0.09	0.38	0.4	2	1.0	52.7	<0.05	0.05	<0.2	0.006	0.02
G284220		1630	14.9	74.4	0.004	0.07	1.96	12.2	2	1.5	121.0	2.30	<0.05	3.2	1.285	0.94
G284221		2340	362	102.0	0.005	0.11	4.62	12.4	2	1.3	122.0	1.85	0.06	3.3	1.280	1.25
G284222		2710	2440	182.0	0.009	3.25	10.90	14.2	3	3.1	52.9	1.89	<0.05	3.8	1.065	2.74
G284223		70	8.8	8.1	0.004	>10.0	23.9	0.4	9	2.1	63.8	0.08	1.50	0.4	0.011	0.18
G284224		1960	2610	157.5	0.006	6.12	8.72	13.0	3	3.8	58.3	1.62	<0.05	3.4	0.871	2.17
G284225		280	251	15.5	0.021	>10.0	25.2	1.6	8	0.5	52.2	0.16	0.24	0.6	0.081	0.30
G284226		40	25.1	1.6	0.018	0.36	0.41	0.4	3	<0.2	71.9	<0.05	0.05	<0.2	0.007	0.06
G284227		40	20.0	1.4	0.003	0.16	0.35	0.2	2	0.2	64.5	<0.05	0.05	<0.2	<0.005	0.04
G284228		20	23.4	2.2	0.008	0.62	0.60	0.3	2	0.3	66.4	<0.05	0.06	<0.2	0.005	0.21
G284229		530	8.5	3.0	0.005	1.32	0.65	0.6	3	0.2	49.7	<0.05	0.07	0.2	0.009	0.12
G284230		150	351	0.8	0.005	4.72	2.15	0.4	2	0.2	63.0	<0.05	0.07	<0.2	<0.005	0.12
G284231		70	412	3.2	0.003	5.12	3.16	0.6	3	0.5	66.2	<0.05	0.09	<0.2	0.007	0.16
G284232		1530	66.5	167.0	<0.002	7.35	3.29	24.0	2	6.5	31.7	1.02	0.05	2.5	0.662	3.35
G284233		220	13.6	2.7	<0.002	0.11	0.11	0.4	2	<0.2	53.5	<0.05	0.05	<0.2	0.008	0.03
G284234		360	874	26.3	0.011	5.36	5.07	2.6	3	3.0	53.6	0.12	0.17	0.8	0.077	0.78
G284235		420	1490	22.1	0.097	2.66	7.18	1.7	6	2.2	114.5	0.10	0.12	0.7	0.039	0.71
G284236		1980	901	216	0.005	3.38	7.87	11.9	5	2.2	60.3	1.31	<0.05	3.0	0.805	2.81
G284237		240	15.7	32.7	0.013	>10.0	4.34	2.0	7	3.0	87.7	0.21	0.20	0.7	0.093	0.29
G284238		100	71.1	3.2	0.012	0.18	0.78	0.4	2	<0.2	46.1	<0.05	<0.05	<0.2	0.018	0.06

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	Zn	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.001	0.01
G284203		4.1	93	12.7	12.6	>10000	19.6	1.305	
G284204		3.3	108	10.5	11.0	7390	14.1		
G284205		6.3	161	8.6	14.8	3590	95.1		
G284206		2.4	88	7.6	12.2	2310	25.1		
G284207		0.7	2	0.2	1.1	41	1.0		
G284208		1.8	92	7.7	14.8	1920	8.1		
G284209		4.3	138	12.0	18.7	1620	31.9		
G284210		11.6	153	8.6	24.2	486	10.0		
G284211		3.2	160	8.9	20.6	737	16.9		
G284212		4.6	194	22.8	20.1	562	44.7		
G284213		0.5	48	3.1	15.7	36	37.8		
G284214		0.2	13	0.8	6.7	14	12.5		
G284215		0.2	13	1.2	6.5	12	14.7		
G284216		0.1	7	0.3	5.9	53	1.3		
G284217		0.3	4	0.4	5.6	413	1.5		
G284218		0.2	4	0.5	5.6	159	1.8		
G284219		0.1	3	0.5	3.3	66	1.8		
G284220		7.7	127	11.4	19.1	234	20.0		
G284221		9.5	137	66.3	18.4	543	14.0		
G284222		2.6	154	72.1	11.8	>10000	13.5	1.750	
G284223		0.5	7	34.5	4.6	42	5.1		2.49
G284224		4.0	134	28.8	12.0	8410	17.5		
G284225		2.7	48	2.7	5.0	1060	8.2		
G284226		3.0	10	1.1	1.5	113	1.5		
G284227		3.1	9	0.4	0.9	101	1.1		
G284228		2.7	9	0.8	0.8	111	1.4		
G284229		8.2	20	1.2	2.4	61	3.8		
G284230		3.4	11	0.3	2.3	1810	1.7		
G284231		2.0	12	1.1	2.3	4020	2.6		
G284232		0.5	154	9.2	12.8	178	17.4		
G284233		0.8	1	0.2	1.1	102	0.5		
G284234		6.1	27	4.9	3.8	6430	16.5		
G284235		10.5	189	4.6	7.1	>10000	14.7	1.560	
G284236		1.4	136	25.0	12.0	5980	15.8		
G284237		0.4	17	61.4	7.6	51	8.2		
G284238		1.5	33	0.3	1.5	620	2.2		

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 13-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09105682

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE VA09104228

Project: RAU

P.O. No.: Batch 58

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 17-OCT-2009
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CERTIFICATE OF ANALYSIS VA09104228

Sample Description	Method	WEI-21	Au-AA26	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Au Check	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
H885301		1.34	0.06		0.52	3.23	853	220	0.60	4.83	15.70	0.19	26.6	19.0	114	0.92
H885302		2.70	8.69		0.93	0.65	>10000	510	0.25	155.5	1.86	3.35	29.4	3.5	5	2.30
H885303		2.94	3.60		7.88	0.21	>10000	70	<0.05	209	2.07	4.18	12.50	1.5	<1	2.83
H885304		1.80	8.73		6.84	0.43	>10000	100	0.16	810	2.96	2.54	7.61	1.6	2	1.16
H885305		2.56	10.20		2.97	0.40	>10000	90	0.14	246	3.58	0.94	9.09	1.4	2	0.80
H885306		1.66	1.61		1.09	0.36	>10000	130	0.14	477	4.99	0.61	9.83	0.8	2	0.30
H885307		2.42	1.90		4.96	0.47	>10000	80	0.44	324	2.95	2.09	31.2	1.6	11	0.21
H885308		3.32	2.86		0.61	0.39	>10000	60	0.10	157.5	11.35	0.35	23.3	1.1	2	0.80
H885309		1.68	6.19		7.21	0.35	>10000	60	0.11	297	8.42	1.57	18.20	1.2	14	0.46
H885310		1.44	1.98		2.94	0.27	>10000	70	0.14	130.5	14.35	0.93	14.55	1.3	21	0.42
H885311		3.16	2.13		7.67	0.48	>10000	230	0.12	136.5	10.65	1.16	13.75	2.4	151	0.69
H885312		2.40	0.08		0.29	0.10	3990	30	0.14	3.54	20.4	0.20	6.63	0.8	3	0.29
H885313		2.04	2.43	1.94	1.66	0.21	>10000	330	0.11	130.5	13.20	1.18	10.35	1.9	1	0.28
H885314		1.26	6.24		12.20	0.35	>10000	1160	0.06	196.0	4.49	4.25	12.50	2.4	3	0.53
H885315		3.48	0.01		0.01	0.08	154	20	0.09	0.28	19.75	0.06	1.68	1.0	<1	0.18
H885316		9.44	0.39		2.97	0.63	5240	70	0.33	301	18.30	2.89	34.8	1.6	4	1.00
H885317		4.82	0.41		6.32	0.38	8470	60	0.21	467	18.45	3.30	27.4	1.0	2	0.64
H885318		7.68	0.34		0.81	0.14	3500	40	0.11	35.4	19.55	2.08	26.4	0.7	<1	0.29
H885319		1.08	0.44		1.08	0.10	4680	40	0.07	38.5	22.3	1.62	20.8	0.7	<1	0.19
H885320		0.52	1.09		0.51	0.41	>10000	560	0.22	94.9	2.06	5.33	57.3	5.2	1	0.31
H885321		2.68	0.91		0.26	0.54	>10000	360	0.22	41.3	1.61	4.56	45.5	3.2	<1	0.38
H885322		2.40	0.70		0.17	0.63	>10000	1040	0.13	23.8	1.90	2.60	23.1	3.8	6	0.24
H885323		0.28	1.54		1.54	0.11	>10000	30	<0.05	343	12.55	0.79	52.8	1.6	5	0.66
H885324		3.50	0.05		0.07	0.24	>10000	1420	<0.05	8.33	1.73	1.37	6.78	2.5	2	0.19
H885325		3.14	0.14		0.11	0.64	>10000	3390	0.19	3.89	1.63	2.09	12.90	2.9	4	0.66
H885326		7.20	<0.01		<0.01	0.08	169	70	0.06	0.18	37.8	0.11	3.22	0.6	<1	0.08
H885327		4.74	<0.01		0.02	0.08	199	60	<0.05	0.91	34.2	0.18	4.34	0.8	<1	0.12
H885328		1.36	0.72		1.07	0.13	>10000	80	<0.05	31.6	14.15	0.08	12.65	0.5	3	0.38
H885329		2.90	0.33		0.27	0.17	9000	30	<0.05	17.85	15.40	0.11	12.30	0.8	2	0.35
H885330		0.28	0.52		0.82	0.82	6020	130	0.26	105.5	13.00	0.16	34.2	6.1	13	2.09
H885331		5.34	2.35		0.83	0.13	>10000	40	<0.05	388	7.22	0.15	12.10	1.0	<1	0.28
H885332		2.86	1.06		2.92	0.19	>10000	30	0.06	59.8	1.23	1.44	17.05	2.7	<1	0.18
H885333		3.48	0.01		0.01	0.10	95	30	0.09	0.52	21.2	0.06	1.88	1.0	1	0.18
H885334		2.36	0.11		1.87	0.61	>10000	30	0.36	15.05	5.51	4.33	29.0	5.8	<1	0.15
H885335		5.42	0.02		0.06	0.08	918	20	0.10	2.09	18.90	0.45	6.51	0.9	<1	0.17
H885336		8.94	0.02		0.07	0.08	924	20	0.09	5.83	18.55	0.27	7.47	0.6	<1	0.22

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104228

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOR	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
H885301		22.7	4.20	8.53	0.10	0.5	<0.01	0.034	0.28	13.9	15.4	6.20	941	0.96	1.00	13.6
H885302		67.9	46.3	3.75	0.54	0.2	<1	0.186	0.17	10.7	2.7	0.31	3930	0.67	0.03	0.5
H885303		13.3	41.5	1.77	0.48	<0.1	<0.1	0.410	0.17	5.5	2.3	0.15	5670	0.46	0.03	0.2
H885304		9.7	40.5	3.79	0.47	0.2	<0.1	0.221	0.22	2.9	0.7	0.70	7150	0.88	0.02	0.4
H885305		5.1	40.9	3.42	0.36	0.2	<1	0.193	0.20	3.5	0.8	1.39	8010	0.80	0.02	0.5
H885306		9.6	37.3	2.50	0.32	0.2	<1	0.156	0.17	3.8	1.4	2.26	4500	0.60	0.02	0.4
H885307		21.0	38.9	2.79	0.39	0.1	<1	0.227	0.10	12.1	0.8	0.86	6650	1.18	0.02	0.2
H885308		5.1	17.80	2.36	0.17	0.2	<0.1	0.143	0.13	12.6	1.6	5.92	4770	0.43	0.02	1.2
H885309		9.4	25.0	2.13	0.23	0.2	<0.1	0.164	0.13	9.3	1.6	4.09	4560	2.90	0.02	0.8
H885310		7.6	17.55	1.76	0.19	0.1	<0.1	0.180	0.10	6.5	1.8	6.02	6650	3.05	0.02	0.7
H885311		22.6	21.6	2.08	0.21	0.2	<0.1	0.156	0.16	6.2	3.2	4.97	4920	13.25	0.06	1.2
H885312		4.6	6.08	0.66	0.09	0.1	<0.01	0.049	0.04	4.0	4.5	9.72	1640	0.32	0.01	0.4
H885313		5.5	23.0	1.79	0.25	0.1	<1	0.143	0.09	4.5	1.6	4.43	7400	0.46	0.01	0.5
H885314		20.4	40.2	3.28	0.36	0.2	<1	0.397	0.18	5.6	1.7	1.50	8630	1.52	0.03	0.6
H885315		1.9	0.50	0.27	0.13	<0.1	<0.01	<0.005	0.03	0.8	1.3	13.05	199	0.08	0.01	0.3
H885316		20.1	7.46	4.50	0.13	0.3	<0.1	0.282	0.26	17.2	3.1	8.11	8340	2.34	0.02	0.9
H885317		11.9	7.32	3.04	0.13	0.2	<0.1	0.266	0.14	13.5	2.4	7.60	8160	0.26	0.02	0.8
H885318		23.1	7.94	1.39	0.12	0.1	<0.1	0.155	0.05	13.1	1.9	7.71	9340	0.32	0.01	0.3
H885319		9.7	7.94	1.29	0.13	0.1	<0.1	0.139	0.04	9.4	1.3	5.65	10050	0.34	0.01	0.3
H885320		80.3	45.3	3.12	0.53	0.2	<1	0.207	0.10	23.1	0.9	0.20	7940	1.75	0.02	0.3
H885321		29.8	45.9	2.44	0.42	0.1	<1	0.157	0.09	21.5	5.2	0.14	6760	1.22	0.01	0.3
H885322		20.4	44.5	2.37	0.41	0.1	<1	0.138	0.28	7.2	2.4	0.13	3860	1.61	0.02	1.1
H885323		16.1	16.40	0.96	0.19	0.1	<0.1	0.092	0.06	35.2	1.8	6.80	2110	5.28	0.01	0.3
H885324		6.7	40.0	1.08	0.43	<0.1	<1	0.055	0.18	3.4	0.7	0.13	2620	2.23	0.02	0.3
H885325		17.8	47.3	2.16	0.38	0.1	<1	0.055	0.33	6.4	2.1	0.16	3300	2.67	0.02	1.7
H885326		0.9	0.26	0.21	0.07	<0.1	<0.1	<0.005	0.03	3.7	0.2	0.20	244	0.17	<0.01	0.4
H885327		3.4	0.74	0.31	<0.05	<0.1	<0.01	0.025	0.03	3.2	0.6	2.69	728	0.08	0.01	0.3
H885328		3.2	10.60	0.83	0.13	0.1	<0.1	0.141	0.05	5.3	1.8	7.63	2480	2.21	0.01	0.3
H885329		3.1	9.50	0.74	0.12	<0.1	<0.1	0.109	0.04	5.3	1.9	9.23	2930	0.24	0.04	0.2
H885330		33.1	14.70	3.78	0.19	0.2	<0.1	0.072	0.39	20.4	4.4	6.79	2030	16.00	0.03	2.2
H885331		5.2	28.5	0.81	0.28	0.1	<1	0.228	0.07	4.8	1.2	3.73	2370	0.28	0.02	0.3
H885332		14.2	48.9	1.08	0.55	0.1	<1	0.299	0.04	7.0	0.5	0.39	2020	1.25	0.01	0.5
H885333		1.8	0.57	0.29	0.05	<0.1	<0.1	0.009	0.03	0.9	1.2	13.10	191	0.09	0.01	0.3
H885334		52.2	43.1	1.17	0.43	0.1	<1	0.147	0.02	11.9	1.2	3.08	3260	0.86	0.01	0.4
H885335		4.6	3.55	0.36	<0.05	<0.1	<0.1	0.032	0.02	3.7	2.0	12.20	1460	0.27	0.01	0.2
H885336		2.5	5.02	0.50	0.07	0.1	<0.1	0.075	0.02	3.7	2.1	10.70	2430	0.70	0.01	0.2

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Project: RAU

Finalized Date: 17-OCT-2009
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CERTIFICATE OF ANALYSIS VA09104228

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
H885301		84.2	560	5.4	12.9	<0.002	0.03	0.83	11.0	2	1.1	262	0.78	<0.05	1.7	0.463
H885302		8.1	270	18.2	37.7	<0.002	0.28	22.6	<0.1	15	1.0	87.1	<0.05	0.17	0.9	0.012
H885303		4.3	270	743	34.0	<0.002	0.38	17.65	<0.1	4	5.2	191.0	<0.05	0.57	<0.2	<0.005
H885304		3.6	240	221	21.8	0.002	0.28	26.0	<0.1	3	5.7	89.6	<0.05	0.56	0.2	0.016
H885305		3.9	210	41.1	16.4	<0.002	0.24	11.30	0.7	3	2.1	63.4	<0.05	0.24	<0.2	0.013
H885306		2.1	300	18.6	8.1	<0.002	0.19	15.35	0.8	5	0.9	67.0	<0.05	0.67	0.2	0.012
H885307		6.4	330	64.0	5.4	<0.002	0.14	15.25	0.4	4	1.1	55.9	<0.05	0.72	0.4	0.009
H885308		2.8	250	10.6	9.2	<0.002	0.11	8.70	0.8	3	0.8	102.5	0.08	0.51	0.2	0.020
H885309		3.6	280	45.4	8.0	<0.002	0.20	13.25	0.8	3	1.6	76.4	0.05	0.36	0.2	0.016
H885310		2.8	200	30.7	6.7	<0.002	0.56	7.97	0.8	2	1.2	111.0	<0.05	0.27	0.3	0.014
H885311		10.4	260	46.4	10.7	<0.002	0.38	9.96	1.3	3	1.7	90.4	0.06	0.26	0.6	0.030
H885312		3.3	390	5.3	3.6	<0.002	0.07	1.00	0.7	3	1.2	49.2	<0.05	0.07	<0.2	0.006
H885313		6.0	310	29.6	6.0	0.002	0.08	7.40	0.9	3	2.1	74.3	<0.05	0.20	<0.2	0.008
H885314		11.9	310	541	14.1	<0.002	0.15	16.20	0.9	4	9.5	104.5	<0.05	0.27	0.3	0.011
H885315		2.8	290	2.3	1.5	<0.002	0.02	0.11	0.4	2	<0.2	46.5	<0.05	<0.05	<0.2	<0.005
H885316		6.7	380	164.5	29.9	0.003	0.11	6.14	1.8	3	9.2	142.0	0.05	0.16	0.4	0.024
H885317		3.7	230	282	16.9	0.002	0.04	7.13	1.3	3	6.8	138.5	0.05	0.21	0.2	0.019
H885318		1.8	150	61.3	5.9	<0.002	0.02	2.45	0.7	2	2.8	130.5	<0.05	0.07	<0.2	0.006
H885319		1.6	180	55.3	4.2	<0.002	0.03	1.86	0.7	2	1.3	117.5	<0.05	0.07	<0.2	<0.005
H885320		13.8	240	29.3	8.0	0.039	0.07	21.8	1.4	3	1.7	61.9	<0.05	<0.05	0.5	0.007
H885321		17.0	290	12.1	7.5	<0.002	0.06	16.25	0.2	1	1.2	39.8	<0.05	<0.05	0.3	0.008
H885322		11.2	240	7.7	8.4	<0.002	0.21	24.5	1.2	2	0.5	62.7	0.07	<0.05	0.6	0.032
H885323		7.2	100	15.2	8.0	0.005	>10.0	22.4	0.5	5	1.2	87.8	<0.05	0.80	0.5	0.006
H885324		11.6	220	3.1	4.0	<0.002	0.32	9.94	0.5	1	0.3	250	<0.05	<0.05	0.3	0.008
H885325		13.3	260	4.1	11.0	<0.002	0.29	8.34	0.4	<1	0.5	90.9	0.12	<0.05	0.6	0.046
H885326		2.3	110	1.1	1.3	<0.002	0.02	0.10	0.6	3	<0.2	118.5	<0.05	0.05	<0.2	0.007
H885327		1.5	60	2.1	1.6	<0.002	0.02	0.35	0.6	3	0.2	138.5	<0.05	0.05	<0.2	0.007
H885328		2.4	100	3.0	6.0	<0.002	0.05	8.92	0.7	3	0.3	124.5	<0.05	0.52	<0.2	0.005
H885329		2.4	90	4.4	2.8	<0.002	0.03	3.60	0.9	3	0.2	129.0	<0.05	0.23	<0.2	0.007
H885330		24.5	230	15.1	35.1	0.016	>10.0	4.89	2.0	7	3.1	89.9	0.12	0.24	0.8	0.059
H885331		3.0	120	9.6	5.4	0.002	0.16	30.5	0.7	7	0.4	83.5	<0.05	1.34	<0.2	<0.005
H885332		10.0	200	8.1	4.6	<0.002	0.09	8.26	0.8	5	0.9	30.3	<0.05	0.37	0.5	0.005
H885333		2.5	240	1.7	1.6	<0.002	0.02	0.12	0.4	2	<0.2	49.8	<0.05	0.05	<0.2	<0.005
H885334		18.6	210	29.3	3.2	<0.002	0.06	10.90	1.0	4	0.7	23.8	<0.05	0.09	0.5	<0.005
H885335		2.2	80	3.5	2.4	<0.002	0.04	0.60	0.4	2	0.5	53.8	<0.05	0.06	<0.2	<0.005
H885336		1.7	140	4.0	3.1	<0.002	0.17	0.77	0.9	2	0.9	91.7	<0.05	0.07	<0.2	<0.005

***** See Appendix Page for comments regarding this certificate *****

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

Finalized Date: 17-OCT-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09104228

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885301		0.13	0.5	106	8.1	12.4	71	16.7	
H885302		0.27	2.7	26	178.5	17.8	280	7.8	5.54
H885303		0.17	2.1	14	57.1	13.6	659	2.9	8.37
H885304		0.22	0.9	14	580	9.1	466	9.9	7.11
H885305		0.20	0.7	12	560	12.1	225	7.2	4.78
H885306		0.10	0.9	11	96.1	8.3	184	7.6	4.27
H885307		0.08	1.3	16	155.5	31.3	303	5.5	6.28
H885308		0.13	0.6	13	155.5	12.3	95	9.6	3.31
H885309		0.12	0.7	11	134.5	10.8	186	7.9	4.36
H885310		0.11	0.6	9	165.0	12.1	161	5.5	2.65
H885311		0.15	1.0	17	213	10.6	180	6.5	3.40
H885312		0.03	0.2	9	3.5	6.7	50	6.1	
H885313		0.16	1.6	4	122.0	12.0	223	5.6	3.00
H885314		0.32	4.6	8	266	11.7	1040	11.3	7.31
H885315		<0.02	0.5	1	0.3	1.0	15	<0.5	
H885316		0.23	0.8	17	184.5	14.3	450	14.5	
H885317		0.18	0.7	14	106.5	14.2	440	8.5	
H885318		0.04	0.7	6	50.4	14.5	402	2.9	
H885319		0.03	0.7	7	16.7	14.5	256	2.6	
H885320		0.74	6.3	14	4330	35.1	568	5.7	6.94
H885321		0.23	6.6	8	460	28.7	493	5.6	6.14
H885322		0.50	8.9	7	110.0	7.4	270	4.0	7.66
H885323		0.11	0.7	4	232	7.2	132	2.9	2.78
H885324		0.25	5.9	5	9.1	2.1	243	2.4	6.01
H885325		0.32	5.3	11	6.6	3.9	338	6.5	6.00
H885326		<0.02	0.1	<1	0.2	7.4	6	1.9	
H885327		0.02	0.1	<1	1.6	4.8	22	1.8	
H885328		0.08	0.1	5	22.2	9.7	17	2.6	2.49
H885329		0.05	0.1	5	133.5	10.8	24	2.0	
H885330		0.28	0.4	16	64.3	7.6	33	7.7	
H885331		0.13	0.4	6	96.0	9.7	58	2.8	2.24
H885332		0.10	1.2	5	74.5	10.9	205	4.4	2.56
H885333		<0.02	0.4	1	0.3	1.0	13	<0.5	
H885334		0.09	2.3	6	10.8	20.2	879	2.4	1.78
H885335		0.03	0.2	2	24.3	5.6	62	1.5	
H885336		0.04	0.1	5	67.7	7.8	44	2.2	

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To: ATAC RESOURCES LTD.
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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 17-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104228

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 7-OCT-2009
Account: RCM

CERTIFICATE VA09104227

Project: RAU

P.O. No.: Batch 60

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 7-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104227

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885373		5.54	0.83	0.17	0.69	2610	100	0.13	278	14.90	0.09	10.60	2.8	16	3.50	19.9
H885374		2.28	0.01	0.10	8.84	25.1	1410	0.99	4.33	1.19	0.05	43.3	16.0	302	30.5	49.4
H885375		3.60	<0.01	<0.01	8.47	4.2	930	0.61	0.59	4.50	<0.02	29.4	35.9	294	47.6	3.4
H885376		5.02	<0.01	0.02	7.25	3.2	840	0.53	0.11	8.47	0.03	29.2	37.1	229	26.9	23.9
H885377		5.12	<0.01	0.07	7.44	3.8	940	0.59	0.08	7.09	0.03	32.2	55.7	261	18.90	127.5
H885378		2.12	0.01	0.14	7.34	2.5	1010	0.44	0.05	6.86	0.04	33.9	60.2	264	14.05	200
H885379		4.74	<0.01	0.08	7.33	8.7	1490	0.74	0.85	7.71	<0.02	35.3	32.9	252	25.6	110.5
H885380		4.50	<0.01	0.18	0.28	12	60	<0.05	1560	18.30	0.02	4.91	12.5	7	2.19	21.2
H885381		4.14	<0.01	0.12	0.12	<5	30	0.17	6.02	19.10	0.03	4.40	1.6	2	0.95	4.0
H885382		5.02	<0.01	0.32	0.10	<5	30	0.15	12.05	19.10	0.03	4.75	1.0	4	0.83	20.3
H885383		0.28	0.50	0.93	0.85	6170	130	0.36	103.0	12.70	0.17	41.1	5.9	16	2.17	36.6
H885384		2.12	<0.01	0.15	0.05	6	20	0.15	2.08	19.75	0.04	4.15	1.2	3	0.33	3.4
H885385		3.68	<0.01	0.13	0.03	5	20	0.16	1.44	19.85	0.06	3.26	0.5	5	0.25	1.1
H885386		10.58	0.02	0.42	0.07	78	20	0.11	29.0	18.00	0.51	5.85	2.3	4	0.58	6.2
H885387		2.88	0.01	0.11	0.03	46	20	0.07	7.51	11.75	0.13	4.66	0.4	13	0.40	3.3
H885388		5.02	0.03	0.09	0.08	12	10	0.15	1.65	19.30	0.03	6.32	0.6	3	0.24	6.5
H885389		4.82	0.02	0.15	0.26	69	20	0.17	5.78	18.65	0.02	7.76	1.5	4	1.74	6.7
H885390		3.16	0.01	0.11	1.44	98	140	0.56	27.1	15.20	0.02	13.05	2.6	14	10.15	2.5
H885391		2.88	<0.01	0.15	0.30	49	30	0.17	4.96	18.35	0.02	6.71	0.9	3	2.51	1.2
H885392		1.78	<0.01	0.21	2.28	32	360	0.37	0.35	15.55	0.05	37.5	11.3	166	1.69	5.3
H885393		3.86	<0.01	0.18	2.20	35	340	0.40	0.36	16.00	0.05	42.1	11.4	156	1.74	4.6
H885394		4.14	<0.01	0.14	2.09	15	350	0.40	0.30	16.50	0.75	35.6	5.6	112	3.11	6.5
H885395		4.70	0.01	0.27	8.66	27.5	330	2.49	0.80	1.43	<0.02	174.5	10.3	122	6.28	13.9
H885396		3.32	<0.01	0.07	0.10	<5	20	0.10	0.10	19.25	0.05	1.90	0.9	3	0.17	1.6
H885397		4.44	<0.01	0.01	9.29	57.5	270	2.79	4.98	2.95	0.06	70.6	21.1	171	8.10	19.2
H885398		4.66	<0.01	0.15	3.77	25	570	0.78	0.87	15.05	0.50	56.1	9.8	69	7.72	18.0
H885399		6.72	<0.01	0.32	0.11	<5	40	0.19	0.18	19.40	1.61	5.89	0.6	2	0.73	1.9
H885400		6.66	<0.01	0.10	0.08	6	30	0.14	1.12	19.75	0.44	5.95	1.5	4	0.83	3.1
H885401		3.80	<0.01	<0.01	0.07	<5	10	0.09	0.06	19.85	0.05	1.31	0.9	2	0.16	1.5
H885402		7.46	<0.01	0.06	0.57	9	10	0.30	1.57	20.4	0.05	5.33	1.5	9	1.52	6.9
H885403		4.02	<0.01	0.08	0.17	13	10	0.15	2.07	19.00	0.13	5.50	0.8	3	0.42	3.7
H885404		3.34	<0.01	0.21	0.14	<5	10	0.12	10.30	26.2	0.97	5.29	0.9	4	0.39	1.5
H885405		2.58	0.01	0.17	0.12	35	40	0.23	1.68	18.25	0.23	2.75	0.7	5	0.26	1.3
H885406		0.28	5.77	0.18	0.12	>10000	30	0.05	467	8.43	0.06	36.1	1.8	14	0.76	43.6
H885407		4.16	0.01	1.95	0.11	95	30	0.33	7.32	19.65	4.32	10.75	0.9	3	0.15	20.1
H885408		4.76	0.04	0.45	1.02	43	210	0.56	9.13	18.60	0.42	8.00	2.3	15	3.23	2.7

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 7-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104227

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885373		13.35	2.69	0.14	0.2	0.03	0.070	0.42	5.1	4.6	5.48	2300	0.31	0.02	0.9	10.9
H885374		5.53	26.3	0.15	2.1	0.01	0.047	5.13	18.9	37.7	4.08	181	0.71	0.13	9.2	162.5
H885375		9.19	22.3	0.13	1.7	<0.01	0.081	3.63	14.7	64.8	3.04	554	0.44	0.30	14.8	258
H885376		7.42	18.55	0.15	1.3	<0.01	0.054	3.32	14.8	51.4	3.23	817	0.21	0.45	10.1	206
H885377		8.75	18.35	0.14	1.5	<0.01	0.052	3.11	16.3	43.7	4.43	717	0.24	0.27	16.9	252
H885378		8.40	18.20	0.15	1.3	<0.01	0.051	2.77	17.5	38.6	4.69	671	0.25	0.21	17.3	265
H885379		5.77	17.20	0.14	1.0	<0.01	0.045	3.44	17.0	43.3	4.33	507	0.27	0.27	9.5	215
H885380		1.34	1.35	0.29	0.1	<0.01	<0.005	0.19	3.0	3.7	11.70	457	1.24	0.01	0.4	19.6
H885381		0.62	0.64	0.08	<0.1	<0.01	0.010	0.08	2.8	2.9	12.00	454	0.25	0.01	0.3	1.6
H885382		2.03	0.61	0.08	<0.1	<0.01	0.018	0.06	3.2	3.1	11.85	537	0.16	0.01	0.3	2.0
H885383		15.05	3.85	0.22	0.3	0.01	0.076	0.42	23.7	4.7	7.05	2170	16.55	0.03	3.0	23.2
H885384		0.41	0.30	0.09	<0.1	<0.01	0.012	0.02	3.9	4.0	12.40	431	0.09	0.02	0.2	<0.2
H885385		0.19	0.19	0.15	<0.1	<0.01	0.013	0.01	3.2	3.9	12.70	397	0.15	0.02	0.1	0.9
H885386		2.94	0.45	0.06	<0.1	<0.01	0.030	0.04	3.6	3.2	11.35	681	0.22	0.02	0.2	3.5
H885387		2.22	0.32	0.06	<0.1	<0.01	0.031	0.01	2.6	2.1	7.03	815	0.08	0.02	0.2	1.8
H885388		1.48	0.45	0.06	0.1	<0.01	0.027	0.01	3.7	1.9	12.25	903	<0.05	0.01	0.4	1.3
H885389		3.45	1.25	0.08	0.2	<0.01	0.031	0.12	4.6	3.9	11.25	1020	0.11	0.02	1.3	3.7
H885390		4.01	5.62	0.08	0.7	<0.01	0.012	0.86	8.1	13.5	9.78	497	0.19	0.07	6.7	8.2
H885391		1.79	1.32	0.06	0.2	<0.01	0.013	0.20	3.9	4.2	11.75	556	0.10	0.01	1.8	1.1
H885392		2.73	5.78	0.09	0.6	<0.01	0.026	1.08	18.7	8.9	9.43	482	0.82	0.02	19.1	20.2
H885393		3.14	5.65	0.08	0.7	<0.01	0.032	1.05	21.1	8.4	9.78	572	0.88	0.02	16.9	20.6
H885394		2.55	5.93	0.08	0.6	<0.01	0.027	1.01	19.0	9.2	9.71	489	0.27	0.03	14.5	17.3
H885395		4.86	28.1	0.23	2.0	<0.01	0.077	4.83	87.0	25.1	1.11	48	0.71	0.08	97.0	35.0
H885396		0.41	0.34	0.09	<0.1	<0.01	0.011	0.04	1.1	1.3	12.45	191	0.13	0.01	0.7	0.7
H885397		5.41	31.3	0.17	2.1	<0.01	0.067	4.92	32.9	23.7	1.24	244	1.50	0.10	92.6	79.3
H885398		2.90	8.80	0.12	1.3	<0.01	0.029	1.86	32.9	12.6	8.11	756	1.05	0.09	19.7	48.4
H885399		0.49	0.68	0.09	<0.1	<0.01	0.026	0.03	3.0	4.2	12.15	1200	1.42	0.03	0.2	0.2
H885400		0.95	0.60	<0.05	<0.1	<0.01	0.021	0.03	2.7	4.3	12.20	1340	1.93	<0.01	0.2	2.2
H885401		0.42	0.31	0.08	<0.1	<0.01	<0.005	0.03	0.6	1.3	12.70	199	0.22	<0.01	0.2	1.1
H885402		1.01	3.13	0.09	0.2	<0.01	0.009	0.11	2.6	3.8	13.25	677	10.10	0.03	0.7	9.7
H885403		0.92	1.15	0.06	0.1	<0.01	0.011	0.02	2.5	3.2	11.80	785	1.61	0.01	0.3	4.8
H885404		0.24	0.89	0.09	0.1	<0.01	0.040	0.03	2.9	2.5	7.36	540	0.64	<0.01	0.4	2.1
H885405		0.63	0.76	0.10	0.1	<0.01	0.188	0.05	2.0	2.7	11.55	1040	0.88	<0.01	0.4	2.7
H885406		23.2	1.12	0.31	0.1	0.02	0.067	0.07	23.7	1.6	4.73	1400	11.05	<0.01	1.2	14.4
H885407		9.45	1.73	0.12	0.1	0.01	13.40	0.02	6.6	1.5	2.74	17300	3.21	<0.01	0.2	11.1
H885408		1.53	4.78	0.05	0.4	0.01	0.153	0.33	4.4	3.5	10.80	1600	1.60	0.03	1.9	8.5

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

Project: RAU

Finalized Date: 7-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104227

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885373		50	4.4	47.5	<0.002	>10.0	3.39	1.8	3	0.7	128.0	0.05	0.19	0.6	0.040	0.30
H885374		900	1.9	490	<0.002	2.53	0.83	28.1	2	9.8	62.6	0.48	0.07	2.3	0.610	2.67
H885375		710	1.1	256	<0.002	0.06	0.54	27.9	2	5.3	64.1	0.79	<0.05	2.2	0.895	2.60
H885376		750	1.0	97.1	<0.002	0.01	0.79	24.2	2	0.8	107.0	0.55	<0.05	1.8	0.718	1.08
H885377		830	1.0	74.2	<0.002	0.02	0.49	25.8	2	0.9	120.5	0.89	<0.05	2.1	0.819	0.64
H885378		780	1.2	55.4	<0.002	0.08	0.26	25.0	2	1.5	123.5	0.92	<0.05	2.1	0.797	0.43
H885379		870	1.0	128.5	<0.002	1.86	0.34	23.8	2	2.7	102.0	0.52	0.05	1.9	0.562	1.30
H885380		40	7.0	23.1	<0.002	1.23	12.60	1.2	4	0.5	49.6	<0.05	1.43	0.3	0.017	0.18
H885381		30	1.2	13.3	<0.002	0.35	0.25	0.4	2	0.2	45.2	<0.05	0.07	0.2	0.006	0.07
H885382		20	2.8	13.3	<0.002	1.33	0.29	0.5	3	0.3	62.2	<0.05	0.08	0.2	0.006	0.08
H885383		240	14.9	35.1	0.014	>10.0	4.81	2.0	7	3.3	94.9	0.16	0.23	0.8	0.076	0.29
H885384		20	2.7	3.1	<0.002	0.28	0.22	0.3	2	0.3	49.4	<0.05	0.07	<0.2	<0.005	0.03
H885385		20	2.8	1.5	<0.002	0.04	0.25	0.2	2	0.2	49.1	<0.05	0.05	<0.2	<0.005	0.03
H885386		20	8.4	6.2	<0.002	2.80	0.80	0.3	3	0.3	49.2	<0.05	0.11	<0.2	<0.005	0.07
H885387		20	5.5	1.1	<0.002	1.66	0.79	0.6	3	0.3	43.9	<0.05	0.06	<0.2	<0.005	0.03
H885388		50	1.5	1.5	<0.002	0.87	0.43	0.5	2	0.3	56.1	<0.05	0.12	<0.2	0.006	<0.02
H885389		260	2.0	19.6	<0.002	3.27	0.55	0.8	3	0.5	64.2	0.07	0.17	0.2	0.023	0.13
H885390		370	1.5	110.5	<0.002	4.67	1.44	1.9	5	1.0	46.4	0.38	0.21	2.4	0.092	0.71
H885391		140	1.2	33.9	<0.002	1.97	0.34	0.6	3	0.4	42.3	0.09	0.11	0.4	0.020	0.18
H885392		860	3.0	30.9	<0.002	3.20	2.96	6.4	2	0.9	63.2	1.02	<0.05	2.5	0.344	0.29
H885393		870	3.5	31.1	<0.002	3.64	2.91	6.3	2	1.2	63.1	0.88	0.06	2.4	0.303	0.30
H885394		680	7.7	58.9	<0.002	2.77	1.16	5.4	2	1.5	87.0	0.78	<0.05	3.0	0.246	0.38
H885395		2060	1.9	163.0	<0.002	4.96	0.51	13.9	2	3.4	26.5	5.40	<0.05	15.0	0.756	0.90
H885396		250	1.2	1.8	<0.002	0.02	<0.05	0.3	2	<0.2	52.1	<0.05	0.06	<0.2	0.006	<0.02
H885397		1870	3.8	135.0	0.002	4.86	0.80	15.1	2	8.6	40.3	5.36	0.15	11.3	0.755	1.23
H885398		930	19.9	90.5	0.002	1.60	0.73	8.8	2	1.3	61.3	1.14	0.09	4.3	0.331	0.64
H885399		20	78.5	2.7	<0.002	0.03	0.77	0.5	3	0.5	52.1	<0.05	0.07	<0.2	<0.005	0.10
H885400		30	25.9	3.5	<0.002	0.22	0.61	0.7	2	0.4	63.8	<0.05	<0.05	<0.2	<0.005	0.13
H885401		270	1.4	1.3	<0.002	0.01	<0.05	0.4	2	<0.2	46.1	<0.05	<0.05	<0.2	<0.005	<0.02
H885402		10	2.4	25.0	0.002	0.47	0.20	1.9	3	1.0	50.3	0.06	<0.05	0.6	0.024	0.14
H885403		20	6.4	2.3	<0.002	0.34	1.29	0.8	2	0.5	49.0	<0.05	<0.05	0.2	0.008	0.08
H885404		30	17.0	3.5	<0.002	0.10	0.37	0.6	3	0.5	92.8	<0.05	<0.05	0.3	0.008	0.03
H885405		10	22.0	7.0	<0.002	0.08	0.50	0.5	3	3.1	34.0	<0.05	<0.05	0.2	0.008	0.05
H885406		60	6.4	7.8	0.002	>10.0	23.1	0.5	10	2.1	57.7	0.08	1.56	0.3	0.007	0.17
H885407		10	237	2.0	<0.002	0.20	4.26	1.4	3	19.3	42.1	<0.05	0.05	0.3	<0.005	0.08
H885408		40	27.3	60.9	<0.002	0.70	0.89	2.4	3	3.7	65.3	0.13	0.21	1.6	0.057	0.27

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 7-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104227

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885373		0.5	11	63.6	6.3	20	8.1	
H885374		1.6	141	4.4	11.8	29	79.8	
H885375		0.5	127	0.5	17.7	89	62.7	
H885376		0.4	158	0.3	17.9	85	51.7	
H885377		0.4	182	0.2	18.0	108	52.5	
H885378		0.4	175	0.2	17.7	87	51.5	
H885379		0.9	128	0.7	16.2	41	38.0	
H885380		0.5	8	0.8	2.5	7	2.9	
H885381		0.3	4	0.5	3.2	6	1.5	
H885382		0.6	4	0.8	4.3	7	1.4	
H885383		0.4	17	67.5	7.6	36	15.0	
H885384		0.2	1	0.4	5.6	8	0.7	
H885385		0.2	3	0.3	4.4	17	<0.5	
H885386		0.4	7	4.3	3.6	116	1.8	
H885387		<0.1	3	1.0	4.3	24	2.4	
H885388		0.1	3	0.4	4.4	7	2.4	
H885389		0.2	5	20.0	5.6	8	7.5	
H885390		0.9	15	1.4	4.9	7	29.6	
H885391		0.3	3	0.5	4.5	5	6.3	
H885392		0.8	62	0.6	15.0	13	25.8	
H885393		0.8	60	0.6	14.8	13	24.8	
H885394		0.6	42	0.6	14.0	184	22.4	
H885395		0.7	112	2.6	25.4	16	86.8	
H885396		0.4	<1	0.1	1.0	13	1.8	
H885397		1.5	146	6.1	17.1	18	86.6	
H885398		1.2	53	0.9	14.5	90	52.9	
H885399		0.3	4	1.3	3.2	316	1.2	
H885400		0.3	5	1.3	3.8	104	1.2	
H885401		0.5	<1	0.1	1.0	15	<0.5	
H885402		1.0	10	4.7	3.1	18	8.3	
H885403		0.4	5	1.2	4.1	33	3.3	
H885404		0.5	1	0.6	2.2	127	3.2	
H885405		0.3	9	0.9	2.5	66	2.4	
H885406		0.5	4	35.0	4.6	11	5.8	4.18
H885407		1.3	4	1.7	8.1	671	5.8	
H885408		0.7	11	2.1	4.1	151	15.6	

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 7-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104227

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

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 8-OCT-2009
Account: RCM

CERTIFICATE VA09104226

Project: RAU

P.O. No.: Batch 61

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 8-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104226

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885409		2.38	0.02	0.12	0.06	67	130	0.10	1.39	19.30	0.84	3.92	1.2	1	0.53	3.5
H885410		0.48	0.02	0.10	0.12	69	130	0.08	1.57	19.75	0.97	4.41	1.2	2	1.25	6.2
H885411		0.22	0.09	2.55	0.53	858	250	0.26	14.50	15.30	4.95	11.15	4.9	34	1.04	63.9
H885412		1.14	0.67	0.76	2.82	3850	1410	0.97	106.0	0.53	6.40	13.15	7.8	24	3.37	84.9
H885413		3.50	0.01	0.15	0.15	16	30	0.08	0.34	19.85	0.10	2.35	1.7	5	0.28	6.6
H885414		2.62	0.07	0.16	0.30	268	90	0.13	5.16	14.20	3.26	8.67	2.8	10	1.34	24.2
H885415		3.90	0.09	0.84	0.74	1590	270	0.40	10.05	6.88	10.65	16.15	8.5	24	1.17	222
H885416		7.28	0.51	0.14	0.12	274	80	0.12	6.44	17.15	2.51	483	1.5	3	0.42	30.5
H885417		1.28	0.08	3.40	0.19	811	460	0.16	8.44	16.45	6.88	16.30	3.7	27	0.57	16.5
H885418		11.04	0.04	0.15	1.86	25	490	0.60	4.21	20.2	0.06	19.55	4.3	21	2.11	5.3
H885419		5.78	0.03	0.18	0.39	95	300	0.27	4.52	19.65	1.53	5.69	3.3	9	3.26	3.6
H885420		6.40	4.43	0.17	0.78	119	120	0.61	822	17.70	0.40	16.05	7.6	5	1.06	94.5
H885421		4.26	2.51	0.27	1.96	85	410	0.66	281	17.15	0.04	15.05	5.3	16	1.76	42.2
H885422		4.42	0.01	0.06	1.16	27	180	0.32	3.12	31.1	0.07	16.85	9.8	15	0.57	4.6
H885423		6.34	<0.01	0.08	0.79	18	90	0.21	0.23	34.3	0.13	29.3	32.2	30	0.76	8.9
H885424		7.52	<0.01	0.08	9.14	6.7	1550	1.24	0.16	8.25	0.10	51.0	70.7	338	5.34	104.5
H885425		3.62	<0.01	0.08	8.87	13.6	1490	1.12	0.18	8.09	0.09	52.6	68.7	330	5.01	97.3
H885426		7.68	<0.01	0.03	7.51	<5	700	1.12	0.06	10.10	0.11	52.5	58.3	219	2.16	51.0
H885427		7.76	<0.01	0.01	7.50	<5	720	1.04	0.06	10.30	0.10	46.9	55.8	252	2.89	87.4
H885428		7.72	<0.01	0.03	7.59	7	720	1.15	0.07	10.15	0.11	57.5	67.0	213	2.93	65.2
H885429		8.10	<0.01	0.14	9.70	8.4	1980	2.35	0.33	3.67	0.05	109.5	52.0	256	7.61	68.7
H885430		0.28	5.84	0.25	0.12	>10000	30	0.33	518	9.34	0.05	42.2	2.1	14	0.89	46.5
H885431		7.72	0.01	0.27	10.05	6.1	1770	2.14	0.44	1.76	0.23	126.5	52.8	169	7.85	49.3
H885432		7.92	<0.01	0.01	10.30	7.5	2100	2.45	0.29	2.36	<0.02	142.0	56.6	237	8.10	2.6
H88533		4.78	<0.01	<0.01	8.36	7.7	1900	2.07	0.13	6.01	0.04	101.0	46.1	235	8.01	2.6
H885434		6.20	0.01	0.15	0.16	35	120	0.19	1.54	19.60	0.20	4.43	1.1	2	1.53	1.1
H885435		0.28	1.53	1.80	0.09	>10000	30	0.06	370	12.70	0.86	61.5	1.7	5	0.69	19.0
H885436		5.66	0.03	0.07	0.32	86	130	0.22	7.73	17.20	0.41	8.64	2.6	4	2.43	7.7
H885437		3.52	0.07	0.19	10.30	63.3	160	2.86	7.50	1.32	0.04	136.0	44.2	205	7.16	82.9
H885438		4.12	0.19	0.21	10.15	199.5	80	2.41	18.10	0.95	0.03	182.0	63.1	211	9.37	30.4
H885439		4.84	0.53	0.10	1.79	3160	50	0.35	43.6	11.00	0.06	41.4	8.2	18	5.39	10.8
H885440		5.48	3.36	0.24	0.29	1120	40	0.11	211	12.00	0.04	7.48	1.9	4	1.24	8.0
H885441		5.22	9.11	0.75	0.02	1770	10	<0.05	344	13.00	0.07	32.6	0.6	<1	0.14	6.5
H885442		5.58	1.39	0.75	0.27	4460	60	0.10	238	7.80	0.11	47.9	0.8	4	0.31	13.5
H885443		3.40	<0.01	0.06	0.04	<5	30	0.08	0.64	19.60	0.06	1.50	0.9	<1	0.14	1.2
H885444		4.98	3.05	3.30	0.56	4860	200	0.14	476	12.15	3.89	23.0	1.6	5	0.84	16.2

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 8-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885409		1.12	0.32	<0.05	<0.1	<0.01	0.009	0.04	2.8	4.5	12.50	431	0.80	<0.01	0.2	4.4
H885410		1.44	0.60	<0.05	<0.1	<0.01	0.012	0.09	3.2	4.4	13.15	443	1.03	<0.01	0.3	5.2
H885411		10.90	1.42	0.10	0.1	0.01	0.141	0.11	6.4	3.5	10.15	766	3.75	0.03	0.6	21.8
H885412		49.9	19.40	0.59	0.1	<0.01	0.457	1.07	5.5	7.6	0.59	1240	7.01	0.04	0.5	37.5
H885413		1.88	0.74	<0.05	0.1	0.01	0.016	0.06	1.1	1.7	12.95	343	0.81	<0.01	0.5	4.4
H885414		6.59	2.00	0.10	0.1	<0.01	0.212	0.10	3.7	2.4	6.49	2690	1.70	<0.01	0.4	17.8
H885415		17.60	3.64	0.19	0.1	0.02	0.385	0.09	7.3	1.5	3.16	2290	2.20	<0.01	0.5	48.4
H885416		3.92	2.30	0.29	<0.1	<0.01	0.044	0.02	322	3.0	10.90	518	0.78	<0.01	0.2	6.2
H885417		8.39	0.81	0.09	0.1	<0.01	0.041	0.06	10.5	3.2	10.60	944	3.81	0.01	0.3	16.6
H885418		1.73	4.91	0.06	0.8	0.01	0.023	0.96	10.9	6.5	8.24	726	0.87	0.01	8.6	11.4
H885419		1.78	1.75	<0.05	0.2	<0.01	0.018	0.26	3.7	5.6	12.65	637	2.87	<0.01	1.0	9.6
H885420		7.17	4.73	0.17	0.5	<0.01	0.102	0.40	6.4	5.7	8.84	10800	1.20	<0.01	2.7	15.3
H885421		6.89	9.33	0.09	0.9	<0.01	0.090	1.01	6.5	10.0	8.21	8110	0.92	<0.01	9.0	16.0
H885422		1.20	3.28	0.05	0.6	<0.01	0.025	0.56	8.6	2.9	0.70	929	1.04	<0.01	8.2	19.6
H885423		2.54	2.40	0.07	0.8	<0.01	0.015	0.33	13.8	3.1	1.09	1990	0.79	<0.01	9.8	33.9
H885424		5.75	23.0	0.14	1.2	<0.01	0.085	4.00	25.4	40.6	2.98	915	0.84	0.27	17.2	240
H885425		5.49	22.4	0.15	1.1	<0.01	0.081	3.79	25.9	38.3	2.85	888	0.96	0.25	15.6	236
H885426		6.91	20.1	0.13	0.5	<0.01	0.069	1.30	26.3	34.4	4.14	1660	0.79	1.17	31.9	250
H885427		6.77	19.15	0.14	0.6	<0.01	0.067	1.52	23.5	34.8	4.15	1560	0.56	0.98	28.9	244
H885428		7.71	20.9	0.15	0.5	<0.01	0.068	1.70	28.3	32.1	4.10	1890	1.00	0.90	30.5	266
H885429		10.25	28.3	0.24	0.3	<0.01	0.095	4.96	52.6	31.3	2.27	1140	1.37	0.52	31.6	246
H885430		25.5	1.53	0.46	0.1	<0.01	0.064	0.08	26.6	2.5	5.28	1580	12.10	<0.01	1.5	17.3
H885431		8.74	29.7	0.27	0.7	<0.01	0.236	4.95	66.3	28.6	1.85	602	0.81	0.83	47.6	178.5
H885432		10.00	30.1	0.27	0.3	<0.01	0.090	4.32	72.8	32.2	2.22	669	0.33	0.80	22.1	253
H88533		9.44	23.5	0.23	0.9	<0.01	0.064	3.14	52.6	31.9	3.74	2000	0.25	0.70	20.9	249
H885434		0.78	0.84	<0.05	0.1	<0.01	0.019	0.12	2.9	4.2	12.25	677	0.36	<0.01	0.5	3.1
H885435		17.10	1.15	0.22	0.1	<0.01	0.095	0.07	39.9	1.9	7.47	2290	6.66	<0.01	0.5	7.7
H885436		1.76	2.43	0.09	0.1	0.01	0.160	0.19	4.7	4.6	10.55	1030	0.35	0.01	2.0	11.4
H885437		10.00	31.5	0.27	1.9	0.01	0.098	5.16	63.4	29.5	0.98	120	1.83	0.07	49.2	177.0
H885438		11.70	30.1	0.31	2.8	0.01	0.061	4.99	79.2	34.4	1.15	85	1.99	0.07	50.9	196.0
H885439		9.92	6.73	0.14	0.9	<0.01	0.074	0.99	23.6	7.6	6.19	1780	1.60	<0.01	11.7	25.1
H885440		14.70	1.55	0.15	0.2	<0.01	0.061	0.17	3.5	2.6	6.91	1720	0.22	<0.01	1.5	6.8
H885441		16.55	0.53	0.18	<0.1	<0.01	0.079	0.02	18.9	1.6	7.71	2600	0.07	<0.01	0.3	0.6
H885442		27.0	1.87	0.29	0.2	<0.01	0.058	0.13	32.9	1.7	4.34	1120	0.22	<0.01	2.1	2.4
H885443		0.45	0.23	<0.05	<0.1	<0.01	0.006	0.03	0.9	1.0	12.80	191	0.08	<0.01	0.3	0.6
H885444		15.80	2.80	0.27	0.2	0.02	0.057	0.24	15.7	2.1	6.45	1570	0.34	0.01	4.1	6.8

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Project: RAU

Finalized Date: 8-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885409		20	10.8	3.7	<0.002	0.05	0.27	0.3	2	<0.2	54.6	<0.05	0.05	0.2	<0.005	0.05
H885410		30	10.3	9.7	<0.002	0.05	0.34	0.4	2	0.2	49.5	<0.05	<0.05	0.2	0.006	0.10
H885411		130	61.7	11.8	<0.002	0.19	1.42	1.9	4	0.5	49.5	<0.05	0.08	0.6	0.017	0.16
H885412		40	80.6	76.2	0.003	1.00	5.61	6.7	10	2.3	11.6	<0.05	0.14	0.2	0.017	0.72
H885413		250	2.5	3.3	<0.002	0.03	0.26	0.5	2	0.9	55.4	<0.05	0.05	0.2	0.007	0.02
H885414		30	16.9	13.9	<0.002	0.14	1.31	2.4	2	0.4	66.4	<0.05	0.13	0.2	0.009	0.16
H885415		460	245	14.5	0.002	0.09	6.80	4.6	3	0.9	38.6	<0.05	0.40	1.5	0.014	0.24
H885416		260	12.3	2.7	0.003	0.09	0.48	1.0	3	0.2	58.2	<0.05	0.06	4.9	<0.005	0.07
H885417		70	22.0	5.6	0.003	0.25	1.18	1.2	3	0.4	71.1	<0.05	0.07	0.3	0.008	0.11
H885418		140	5.0	32.0	0.003	1.97	2.00	3.9	2	1.2	111.0	0.48	0.07	2.4	0.138	0.54
H885419		30	7.0	31.7	<0.002	0.06	0.49	1.1	2	0.5	63.2	0.05	0.07	0.6	0.028	0.29
H885420		140	11.4	14.8	0.005	1.85	7.57	2.1	5	3.5	125.5	0.15	0.80	0.8	0.042	0.23
H885421		270	4.2	32.7	0.002	2.17	2.89	3.1	3	4.3	130.0	0.50	0.18	2.4	0.132	0.41
H885422		290	3.3	13.5	0.002	1.05	0.37	2.1	3	0.6	250	0.44	0.05	1.7	0.109	0.14
H885423		570	6.2	12.3	0.005	2.25	0.21	3.5	2	0.3	351	0.47	0.09	1.5	0.158	0.18
H885424		1580	4.8	88.5	0.002	0.98	0.08	36.3	2	1.3	238	1.12	<0.05	3.6	0.763	0.40
H885425		1520	4.5	85.8	<0.002	0.88	0.09	35.2	2	1.3	229	1.01	<0.05	3.8	0.720	0.40
H885426		1440	3.4	36.5	<0.002	0.01	0.21	27.5	1	1.4	328	1.92	<0.05	3.3	1.135	0.11
H885427		1250	3.6	38.6	<0.002	0.01	0.10	29.5	2	1.2	312	1.72	<0.05	3.0	1.020	0.17
H885428		1550	4.4	45.0	<0.002	0.01	0.17	26.1	2	1.5	365	1.88	<0.05	3.8	1.200	0.14
H885429		1880	2.7	93.4	<0.002	0.02	0.27	26.1	2	1.9	139.5	2.03	<0.05	6.1	0.809	0.43
H885430		70	7.0	9.1	0.002	>10.0	27.0	1.0	10	2.8	66.0	0.08	1.62	0.4	0.008	0.19
H885431		2850	10.9	99.1	0.010	0.01	0.46	22.8	2	2.2	101.0	3.15	<0.05	10.3	0.741	0.58
H885432		4500	2.6	114.0	<0.002	0.01	0.27	25.8	2	2.1	139.5	1.60	<0.05	9.7	0.583	0.48
H88533		2570	2.6	101.0	<0.002	0.05	0.30	25.9	2	1.8	218	1.47	<0.05	8.2	0.678	0.39
H885434		30	3.9	21.8	<0.002	0.13	0.28	0.5	2	0.3	69.1	<0.05	<0.05	0.2	0.011	0.13
H885435		120	16.4	8.0	0.006	>10.0	23.3	0.6	6	1.2	94.1	<0.05	0.94	0.9	0.008	0.12
H885436		40	7.1	30.1	0.007	0.31	0.53	1.7	1	0.5	95.3	0.21	<0.05	0.7	0.019	0.30
H885437		2420	6.8	169.5	0.003	7.30	2.55	27.8	3	4.3	40.7	2.54	0.14	11.2	0.822	1.36
H885438		1990	10.2	169.5	0.004	>10.0	3.69	23.0	3	4.1	32.0	2.76	0.87	11.2	0.714	1.77
H885439		290	4.0	77.9	<0.002	9.78	5.11	2.2	3	1.5	72.8	0.72	0.79	3.9	0.092	0.55
H885440		230	6.7	20.2	0.002	>10.0	34.1	1.0	4	0.5	70.4	0.09	0.31	0.4	0.017	0.27
H885441		60	7.1	1.4	<0.002	>10.0	32.5	0.5	5	0.2	112.0	<0.05	0.28	0.9	<0.005	0.08
H885442		130	11.0	7.6	0.003	>10.0	53.9	0.6	7	1.1	51.6	0.12	0.23	1.3	0.024	0.29
H885443		220	1.4	0.9	<0.002	0.06	0.15	0.3	2	<0.2	54.7	<0.05	0.05	0.2	<0.005	<0.02
H885444		260	137.0	18.0	<0.002	>10.0	44.6	1.0	6	1.0	74.0	0.22	0.52	1.1	0.033	0.30

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Project: RAU

Finalized Date: 8-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885409		0.3	11	1.0	2.6	168	0.9	
H885410		0.3	17	0.8	3.2	166	1.8	
H885411		1.4	22	14.6	6.8	991	3.7	
H885412		3.2	98	169.0	10.5	1440	2.9	
H885413		0.6	7	0.8	1.2	23	2.9	
H885414		0.7	54	2.2	8.9	561	2.5	
H885415		2.6	87	18.1	10.7	3400	5.7	
H885416		5.6	11	1.2	4.8	299	0.8	
H885417		0.9	16	129.5	5.8	708	1.9	
H885418		0.8	26	1.6	8.8	19	34.6	
H885419		0.4	12	6.1	3.0	233	6.1	
H885420		1.5	14	89.0	15.5	47	19.4	
H885421		1.5	25	190.0	13.9	16	39.0	
H885422		1.0	18	0.8	5.0	4	29.1	
H885423		1.6	47	0.4	17.9	8	34.1	
H885424		1.0	298	0.3	19.5	96	50.1	
H885425		1.0	294	0.3	19.2	93	46.6	
H885426		0.7	249	0.4	20.9	114	20.1	
H885427		0.7	256	0.3	19.3	127	21.9	
H885428		0.7	252	0.3	18.7	172	13.1	
H885429		0.7	237	0.4	22.3	98	10.6	
H885430		0.6	8	40.4	5.1	12	5.3	4.35
H885431		0.9	177	0.7	25.4	109	29.3	
H885432		0.5	154	0.2	27.6	103	13.6	
H88533		1.3	139	0.1	22.4	89	41.5	
H885434		0.1	9	0.7	2.5	27	2.5	
H885435		0.9	8	218	7.3	151	3.2	2.74
H885436		0.5	10	0.8	4.0	62	4.5	
H885437		2.2	178	3.1	32.4	13	82.6	
H885438		3.1	164	4.8	34.3	21	118.0	
H885439		0.9	26	44.9	7.7	17	34.9	
H885440		0.4	21	167.0	5.2	14	7.8	
H885441		0.2	7	31.5	6.8	22	1.1	
H885442		0.9	9	96.0	4.7	26	8.5	
H885443		0.6	5	0.2	1.0	15	<0.5	
H885444		0.4	9	5.5	6.9	1120	9.7	

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Project: RAU

Finalized Date: 8-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104226

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

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Finalized Date: 10-OCT-2009
Account: RCM

CERTIFICATE VA09104223

Project: RAU

P.O. No.: Batch 59

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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

Project: RAU

Finalized Date: 10-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104223

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885337		2.72	<0.01	0.11	0.05	294	20	0.06	1.31	18.55	0.07	4.28	0.5	1	0.13	1.3
H885338		6.88	0.45	0.65	0.10	7170	30	<0.05	150.5	12.45	0.42	10.70	0.7	1	0.51	2.8
H885339		7.44	0.14	1.93	0.10	1660	20	0.06	30.3	13.25	3.15	9.85	0.6	1	0.21	4.9
H885340		0.28	5.49	0.23	0.12	>10000	30	1.31	479	8.88	0.08	39.1	1.8	16	0.71	41.0
H885341		9.52	<0.01	0.11	0.06	374	20	0.09	1.12	18.95	0.76	4.52	0.5	2	0.13	1.0
H885342		1.58	0.27	0.75	0.05	1580	20	0.15	10.15	17.20	1.48	6.95	0.7	2	0.13	1.8
H885343		7.48	0.18	0.39	0.07	9820	20	0.07	12.60	16.40	1.09	7.13	1.1	1	0.46	1.8
H885344		4.14	1.61	0.43	0.15	>10000	40	0.05	178.5	8.71	0.54	7.77	1.3	3	0.23	3.7
H885345		3.20	1.07	1.97	0.55	5830	140	0.12	358	7.77	0.35	5.88	1.2	4	0.54	4.5
H885346		3.48	<0.01	0.01	0.13	141	20	0.12	0.25	19.20	0.09	4.67	1.2	3	0.27	3.6
H885347		1.86	0.56	2.76	0.24	>10000	40	0.11	232	2.56	3.31	12.05	2.8	2	0.34	7.3
H885348		5.14	0.91	1.12	0.08	>10000	20	0.10	111.0	8.62	1.78	10.75	2.0	<1	0.16	4.9
H885349		7.56	0.01	0.04	0.04	655	10	0.13	14.85	19.20	0.31	4.06	0.6	<1	0.11	1.4
H885350		1.78	21.0	0.28	0.08	>10000	30	0.27	583	16.85	1.96	6.88	3.3	1	1.70	5.6
H885351		3.74	8.83	0.42	0.06	>10000	30	<0.05	728	1.38	0.17	0.99	0.2	1	0.14	3.8
H885352		3.42	6.65	0.20	0.40	>10000	110	0.27	281	1.73	0.83	12.05	1.6	3	2.29	5.5
H885353		2.86	3.62	0.33	0.17	>10000	40	0.10	294	2.33	2.35	8.76	1.6	<1	2.52	11.1
H885354		3.86	0.51	0.52	0.16	5410	20	0.12	57.8	18.80	1.71	34.5	1.2	1	0.56	28.9
H885355		2.90	4.62	0.73	0.38	>10000	130	0.16	55.0	3.84	7.71	22.7	5.7	3	0.35	16.2
H885356		2.96	1.33	0.44	0.27	>10000	200	0.24	684	0.84	3.49	14.75	6.6	2	0.06	46.4
H885357		3.26	0.14	0.73	0.15	>10000	110	0.06	286	1.22	2.11	4.97	2.9	<1	0.07	11.3
H885358		2.16	0.09	0.56	0.17	>10000	120	0.08	314	1.05	2.15	5.08	3.1	1	0.08	11.4
H885359		4.60	0.07	0.47	0.21	>10000	130	0.08	108.5	0.68	2.50	8.80	6.5	1	0.21	12.3
H885360		4.06	0.18	0.60	0.28	>10000	200	0.10	14.65	1.01	2.74	7.51	4.8	2	0.36	14.9
H885361		3.94	0.20	0.87	0.70	>10000	380	0.19	12.65	1.07	2.28	9.47	7.0	9	0.91	19.3
H885362		2.36	0.10	0.45	1.61	>10000	510	0.36	11.55	0.79	2.22	13.25	6.8	21	2.32	13.6
H885363		3.54	0.01	0.08	0.07	267	10	0.06	1.08	19.70	0.05	1.51	0.8	<1	0.16	1.2
H885364		2.92	0.02	0.05	0.17	2390	130	0.07	0.55	34.8	0.48	3.66	3.7	2	0.31	3.1
H885365		4.02	0.01	<0.01	0.09	182	30	0.06	0.41	35.8	0.13	2.76	1.1	2	0.22	2.7
H885366		2.80	0.02	0.10	0.25	2450	180	0.09	0.23	33.0	0.70	4.36	3.2	2	0.32	2.3
H885367		4.72	0.02	0.01	0.09	118	40	0.08	0.35	37.5	0.13	2.15	1.0	2	0.21	1.1
H885368		0.28	5.18	0.16	0.12	>10000	30	<0.05	469	8.69	0.06	39.7	1.9	14	0.78	43.2
H885369		3.56	0.02	0.01	0.10	138	20	<0.05	0.62	35.1	0.03	1.74	0.6	2	0.13	1.2
H885370		1.72	0.01	<0.01	0.13	40	80	0.10	0.24	36.5	0.03	2.95	0.8	1	<0.05	1.3
H885371		3.72	0.01	0.01	0.43	93	100	0.16	0.50	33.3	0.03	4.43	1.2	4	0.99	2.2
H885372		4.86	1.03	0.26	0.17	516	20	<0.05	323	16.60	0.08	15.70	1.0	1	1.94	22.3

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 10-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104223

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885337		2.02	0.17	<0.05	<0.1	<0.01	0.026	0.02	3.0	1.9	11.65	1270	0.08	0.01	0.2	0.3
H885338		16.30	0.53	0.19	0.1	<0.01	0.112	0.04	4.5	1.1	5.64	2160	0.06	0.01	0.4	0.6
H885339		14.95	0.58	0.13	<0.1	0.01	0.279	0.04	4.2	1.4	6.78	2980	0.08	0.01	0.2	0.7
H885340		23.6	1.23	0.55	0.1	<0.01	0.082	0.07	24.6	3.6	4.85	1470	10.85	0.01	1.3	13.3
H885341		1.72	0.21	0.05	<0.1	<0.01	0.096	0.02	3.2	1.9	11.85	1560	0.14	0.01	0.3	<0.2
H885342		7.81	0.20	0.10	<0.1	<0.01	0.089	0.01	4.2	2.1	11.00	2080	0.50	0.01	0.2	0.9
H885343		9.81	0.40	0.12	<0.1	<0.01	0.100	0.03	4.0	1.8	10.15	2300	0.09	0.01	0.2	1.3
H885344		30.0	0.98	0.24	0.1	<0.01	0.117	0.05	2.8	0.7	1.46	3110	0.17	0.01	0.3	2.3
H885345		31.9	3.45	0.23	0.3	<0.01	0.123	0.24	2.1	1.3	1.73	2820	0.71	0.01	1.1	2.6
H885346		0.52	0.37	<0.05	<0.1	<0.01	0.007	0.05	2.3	1.3	12.30	201	0.96	0.01	0.4	3.3
H885347		43.1	1.68	0.68	0.1	0.01	0.158	0.08	4.9	0.6	1.20	2190	0.22	0.02	0.5	6.8
H885348		32.6	0.88	0.29	<0.1	<0.01	0.284	0.03	4.4	1.0	4.61	3090	0.30	0.01	0.3	7.4
H885349		1.29	0.27	<0.05	<0.1	<0.01	0.057	0.01	3.0	1.8	12.05	1120	0.10	0.01	0.2	1.4
H885350		17.65	1.18	0.43	<0.1	0.04	0.087	0.05	3.6	2.9	3.60	4170	0.58	0.01	0.4	8.2
H885351		28.3	0.73	0.48	0.1	0.02	0.374	0.07	0.5	1.3	0.09	702	0.21	0.02	0.4	0.4
H885352		42.6	3.49	0.67	0.4	<0.01	0.201	0.27	5.4	3.8	0.17	3920	0.29	0.02	1.1	6.5
H885353		44.0	2.25	0.86	0.2	0.01	0.153	0.39	4.1	3.9	0.12	2300	0.37	0.02	1.5	6.1
H885354		8.29	1.74	0.11	0.1	<0.01	0.162	0.06	18.0	2.3	7.42	9860	0.31	0.01	0.6	3.7
H885355		45.7	2.41	0.39	0.2	0.01	0.175	0.09	10.8	1.1	0.26	6420	2.62	0.01	0.6	18.7
H885356		>50	3.05	0.86	0.1	<0.01	0.220	0.07	7.0	4.5	0.13	5830	2.53	0.01	0.5	22.8
H885357		>50	0.93	0.41	0.1	0.01	0.080	0.03	2.9	0.5	0.19	2500	3.94	0.01	0.5	11.1
H885358		>50	0.99	0.42	0.1	<0.01	0.083	0.04	3.0	0.5	0.14	2390	3.87	0.01	0.5	11.4
H885359		>50	0.90	0.41	0.1	<0.01	0.058	0.05	5.7	2.5	0.18	3340	2.45	0.01	0.5	23.1
H885360		>50	1.18	0.45	0.1	<0.01	0.072	0.09	4.5	3.3	0.25	7010	2.75	0.01	0.6	27.4
H885361		>50	2.21	0.51	0.2	0.01	0.062	0.28	6.0	3.6	0.36	5160	3.33	0.02	1.1	32.3
H885362		46.4	4.40	0.56	0.3	<0.01	0.055	0.85	9.6	4.1	0.31	4850	3.83	0.03	4.3	42.0
H885363		0.50	0.11	<0.05	<0.1	<0.01	0.006	0.03	0.7	1.1	12.60	197	0.07	0.01	0.3	0.5
H885364		3.68	0.58	<0.05	0.1	<0.01	0.009	0.09	3.5	0.4	0.42	1560	0.58	0.01	0.8	9.9
H885365		0.29	0.29	<0.05	<0.1	<0.01	<0.005	0.05	2.7	0.4	0.54	236	0.19	<0.01	0.5	1.5
H885366		6.13	0.90	0.06	0.1	<0.01	0.009	0.13	4.0	0.6	0.25	4570	0.93	0.01	1.3	20.4
H885367		0.24	0.29	<0.05	0.1	<0.01	<0.005	0.05	2.6	0.3	0.30	207	0.07	0.01	0.5	1.0
H885368		23.1	1.12	0.24	0.1	<0.01	0.057	0.07	25.6	1.3	4.72	1420	10.75	0.01	1.4	14.0
H885369		0.19	0.27	<0.05	<0.1	<0.01	<0.005	0.06	1.2	0.7	0.77	79	1.59	<0.01	0.2	1.1
H885370		0.13	0.34	<0.05	<0.1	<0.01	0.012	0.03	1.8	<0.2	0.47	96	0.68	0.01	0.2	0.9
H885371		0.32	1.25	<0.05	0.1	0.01	0.027	0.23	2.4	2.4	1.18	192	0.69	0.01	0.7	3.4
H885372		13.05	1.36	0.14	0.1	<0.01	0.156	0.15	6.7	2.3	8.45	2790	0.27	<0.01	0.3	2.6

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS VA09104223

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885337		80	2.5	1.7	<0.002	0.22	0.25	0.3	2	0.6	47.6	<0.05	<0.05	0.3	<0.005	<0.02
H885338		70	24.6	3.6	<0.002	>10.0	4.34	0.4	4	0.7	83.3	<0.05	0.24	0.3	0.005	0.10
H885339		90	294	4.0	<0.002	4.97	1.39	0.4	3	6.0	93.5	<0.05	0.08	0.3	<0.005	0.03
H885340		60	7.4	7.4	<0.002	>10.0	22.9	0.8	8	2.6	59.4	0.05	1.25	0.6	0.007	0.17
H885341		70	14.6	1.3	<0.002	0.14	0.37	0.3	2	0.8	53.9	<0.05	0.07	0.3	<0.005	<0.02
H885342		110	51.4	1.1	<0.002	0.06	0.75	0.4	4	0.9	53.2	<0.05	0.11	0.3	<0.005	<0.02
H885343		90	27.6	4.7	<0.002	0.28	1.75	0.5	4	1.1	64.8	<0.05	0.11	0.3	<0.005	0.07
H885344		90	9.4	4.7	<0.002	9.53	6.80	0.6	7	0.8	50.4	<0.05	0.22	0.4	<0.005	0.08
H885345		250	27.3	15.1	<0.002	>10.0	5.99	0.8	4	1.0	49.1	0.07	0.16	1.0	0.018	0.11
H885346		230	2.7	2.5	<0.002	0.02	0.29	0.5	1	<0.2	64.2	<0.05	<0.05	0.3	0.006	<0.02
H885347		220	166.0	10.5	<0.002	3.44	9.22	1.0	6	1.7	30.5	<0.05	0.23	0.2	0.006	0.10
H885348		110	61.6	3.1	<0.002	2.36	4.80	1.2	4	1.8	50.6	<0.05	0.22	<0.2	<0.005	0.12
H885349		50	5.5	1.3	<0.002	0.06	0.60	0.4	2	0.6	45.2	<0.05	<0.05	<0.2	<0.005	0.02
H885350		60	9.4	10.7	<0.002	0.14	18.35	<0.1	5	0.5	120.5	<0.05	0.31	<0.2	<0.005	0.52
H885351		130	25.9	3.9	0.003	0.35	52.7	0.9	9	1.0	80.4	<0.05	0.57	<0.2	<0.005	0.22
H885352		110	6.9	27.6	0.004	0.27	23.3	<0.1	2	1.1	189.5	0.10	0.26	0.8	0.016	0.45
H885353		150	14.0	33.3	<0.002	0.64	25.9	<0.1	4	1.2	323	<0.05	0.15	0.9	0.008	0.29
H885354		170	46.5	7.3	0.002	0.04	2.36	0.9	2	3.3	112.5	<0.05	0.08	<0.2	0.010	0.17
H885355		200	119.0	6.4	<0.002	0.09	11.90	0.9	4	1.1	51.8	<0.05	0.21	1.0	0.010	0.55
H885356		270	101.5	2.8	0.003	0.12	13.50	0.1	6	2.7	38.0	0.09	0.32	0.7	0.006	0.38
H885357		190	69.9	1.3	<0.002	0.16	13.70	0.4	4	0.2	35.6	<0.05	0.25	0.6	0.008	0.21
H885358		180	70.2	1.6	<0.002	0.12	14.25	0.5	4	0.2	35.5	<0.05	0.24	0.6	0.010	0.21
H885359		150	26.0	1.9	<0.002	0.08	3.87	0.7	3	<0.2	22.8	<0.05	0.22	0.5	0.010	0.15
H885360		180	10.5	3.6	<0.002	0.21	5.32	0.8	3	<0.2	36.9	<0.05	0.21	0.6	0.014	0.22
H885361		250	11.7	9.8	<0.002	0.23	5.32	1.4	2	0.4	33.7	0.07	0.26	1.0	0.043	0.39
H885362		470	14.6	24.2	<0.002	0.06	5.04	2.9	2	0.7	31.6	0.30	0.20	1.5	0.160	0.36
H885363		270	1.3	1.0	<0.002	0.02	0.09	0.3	2	<0.2	47.6	<0.05	0.05	0.3	<0.005	<0.02
H885364		70	1.9	3.0	<0.002	0.03	0.54	0.6	2	<0.2	128.5	<0.05	<0.05	0.2	0.016	0.07
H885365		40	1.3	1.9	<0.002	0.06	0.14	0.4	2	<0.2	121.0	<0.05	<0.05	<0.2	0.009	<0.02
H885366		100	1.8	4.5	<0.002	0.04	0.46	0.8	2	<0.2	134.5	0.08	0.07	0.3	0.027	0.10
H885367		50	1.2	1.9	<0.002	0.02	0.08	0.4	2	<0.2	141.5	<0.05	<0.05	<0.2	0.009	<0.02
H885368		60	6.2	8.0	0.003	>10.0	24.6	0.4	9	2.2	61.4	0.08	1.49	0.4	0.008	0.16
H885369		10	1.6	1.8	0.003	0.10	0.21	0.4	2	<0.2	162.0	<0.05	<0.05	0.2	0.005	0.04
H885370		10	1.2	0.4	<0.002	0.05	0.08	0.4	2	<0.2	193.0	<0.05	<0.05	0.2	<0.005	<0.02
H885371		20	0.8	9.5	<0.002	0.14	0.14	1.0	2	0.2	186.5	0.05	<0.05	0.7	0.019	0.08
H885372		30	7.3	25.9	<0.002	9.74	5.11	0.6	3	0.5	102.5	<0.05	0.25	0.3	0.008	0.17

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

Project: RAU

Finalized Date: 10-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104223

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885337		0.2	4	2.5	3.5	19	1.3	
H885338		0.3	4	204	8.0	110	3.6	
H885339		0.2	6	78.5	7.8	787	1.9	
H885340		0.6	6	38.4	4.7	14	4.7	4.20
H885341		0.2	6	1.7	3.9	157	1.5	
H885342		0.3	6	6.0	5.5	290	2.6	
H885343		0.3	6	100.5	6.6	274	1.7	
H885344		0.5	6	186.0	6.9	96	2.1	0.93
H885345		0.5	11	79.7	5.7	128	9.2	
H885346		0.7	4	0.6	1.3	19	0.6	
H885347		0.8	6	5.3	11.1	967	5.1	1.52
H885348		0.5	9	215	11.2	390	1.8	1.05
H885349		0.1	7	0.8	4.2	58	1.0	
H885350		0.8	8	7.8	9.1	287	2.0	3.09
H885351		0.9	4	360	0.8	31	2.7	24.5
H885352		3.2	8	327	15.7	226	12.3	9.62
H885353		2.5	4	31.3	4.6	299	8.2	9.66
H885354		0.7	11	230	14.7	360	4.0	
H885355		4.7	5	145.0	14.1	1610	7.0	3.93
H885356		4.7	7	450	23.2	1440	5.5	3.05
H885357		3.8	3	72.0	4.6	912	4.0	3.55
H885358		4.0	3	69.9	4.6	956	6.9	3.59
H885359		3.2	4	18.9	10.2	1620	3.8	2.44
H885360		3.0	6	19.4	6.6	1180	6.0	2.75
H885361		3.4	20	18.0	7.3	914	6.6	2.61
H885362		3.3	29	22.1	9.0	888	8.3	2.35
H885363		0.7	3	0.7	1.0	14	<0.5	
H885364		0.4	4	1.1	5.5	110	3.5	
H885365		0.1	2	0.3	4.1	9	2.4	
H885366		0.5	4	0.7	5.6	188	4.9	
H885367		0.1	3	0.2	4.1	8	2.2	
H885368		0.6	5	36.7	4.8	10	5.4	3.89
H885369		1.3	5	0.2	1.0	<2	1.2	
H885370		0.4	2	0.1	1.3	<2	2.1	
H885371		0.3	5	0.4	1.5	<2	5.4	
H885372		1.2	9	58.9	8.6	19	3.0	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 10-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104223

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

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Finalized Date: 6-OCT-2009
Account: RCM

CERTIFICATE VA09104222

Project: RAU

P.O. No.: Batch 57

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 6-OCT-2009
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CERTIFICATE OF ANALYSIS VA09104222

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885265		2.34	0.54	1.30	0.14	6270	20	0.07	121.5	11.40	1.25	18.90	2.4	5	0.16	11.9
H885266		7.84	0.30	0.38	0.07	2440	20	0.06	288	13.05	0.24	8.82	1.0	1	0.14	4.7
H885267		6.40	0.23	0.14	0.11	2570	30	0.08	112.0	13.15	0.35	6.97	1.4	2	0.17	5.1
H885268		6.30	0.58	0.23	0.18	2920	40	0.06	370	3.84	0.19	4.74	0.9	2	0.21	10.0
H885269		4.46	0.05	0.04	0.13	630	30	0.12	17.90	17.20	0.45	5.18	1.4	1	0.14	4.3
H885270		5.86	0.20	0.10	6.36	674	480	2.25	6.88	2.70	0.35	74.8	13.9	42	3.53	26.2
H885271		0.28	5.48	0.29	0.09	>10000	30	<0.05	472	8.45	0.04	34.1	1.6	15	0.67	37.8
H885272		8.90	1.21	0.82	0.14	8280	30	<0.05	136.5	13.15	0.21	13.00	4.5	2	0.26	4.2
H885273		6.36	0.45	2.05	0.19	3160	40	0.07	108.5	12.20	1.77	5.63	1.9	2	0.31	4.5
H885274		3.88	5.23	10.75	0.04	>10000	10	<0.05	566	1.66	13.60	19.35	1.3	<1	0.12	18.8
H885275		9.98	0.27	1.29	0.22	8760	50	0.07	68.7	15.00	1.10	5.99	1.9	3	0.38	3.4
H885276		5.00	0.30	1.87	0.30	7230	60	0.11	85.6	16.10	1.38	5.99	2.0	4	0.42	5.2
H885277		12.36	0.10	0.28	0.14	1080	50	0.08	30.3	17.15	0.27	5.58	0.7	4	0.32	2.4
H885278		12.06	0.02	0.07	0.02	303	20	0.11	4.71	18.90	0.99	4.21	0.8	2	0.23	2.2
H885279		11.82	0.02	0.64	0.03	655	10	0.08	4.44	17.70	1.52	6.33	0.8	1	0.33	6.6
H885280		3.46	<0.01	0.01	0.04	11	10	0.06	0.14	19.65	0.06	1.23	1.2	1	0.22	3.5
H885281		11.88	0.05	2.65	0.09	1000	20	0.12	17.90	16.45	3.90	4.79	0.9	3	0.35	5.2
H885282		12.60	0.54	2.36	0.14	1480	40	0.08	36.4	15.40	3.19	6.89	1.1	1	0.45	5.4
H885283		0.32	3.63	7.36	0.13	7840	30	0.06	461	9.77	4.25	10.35	4.8	1	0.26	6.2
H885284		7.00	<0.01	0.02	0.20	10	60	0.08	0.63	35.6	0.07	3.22	1.0	2	0.09	1.7
H885285		11.66	0.38	1.69	0.17	>10000	30	0.09	66.7	15.25	0.53	5.57	1.5	1	0.46	2.5
H885286		12.64	0.52	0.60	<0.01	>10000	20	<0.05	90.8	15.75	1.46	4.22	0.7	<1	0.18	2.3
H885287		5.78	0.92	1.02	0.11	>10000	30	0.06	72.8	16.40	3.36	5.41	1.3	1	0.31	2.8
H885288		7.36	1.13	0.54	0.08	>10000	20	0.05	46.5	14.45	1.11	3.76	1.1	3	0.30	2.4
H885289		12.70	0.59	1.51	0.23	>10000	50	0.09	84.9	14.60	0.69	4.91	1.2	4	0.47	2.8
H885290		12.22	0.63	1.52	0.08	9650	20	<0.05	127.5	13.35	0.91	5.33	1.1	1	0.32	3.7
H885291		0.28	1.62	1.68	0.07	>10000	30	<0.05	335	11.80	0.83	52.4	1.5	7	0.59	16.1
H885292		11.50	0.02	1.15	0.12	1020	10	<0.05	23.7	17.55	1.88	13.75	0.8	1	0.37	7.1
H885293		12.14	0.02	0.32	0.22	171	40	0.11	180.5	17.90	0.52	13.55	0.9	2	0.86	3.4
H885294		11.60	0.01	0.25	0.07	64	20	0.09	69.8	17.25	0.70	9.25	0.9	1	0.52	2.8
H885295		12.20	<0.01	0.01	0.16	11	70	0.09	0.95	35.1	0.08	3.26	1.1	2	0.25	2.7
H885296		5.24	<0.01	0.04	0.08	7	370	0.08	0.26	30.5	0.20	2.43	0.7	2	0.06	1.0
H885297		1.24	<0.01	0.19	0.09	17	210	0.11	0.23	21.6	4.26	3.25	1.1	1	0.17	8.4
H885298		3.28	<0.01	0.03	0.19	<5	320	0.16	0.17	19.55	0.26	3.29	0.7	2	0.17	1.5
H885299		3.50	<0.01	0.07	0.11	15	220	0.09	0.16	19.85	0.69	3.42	1.0	1	0.13	3.9
H885300		3.00	<0.01	0.02	0.03	9	350	0.09	0.16	33.5	0.26	1.79	0.6	1	<0.05	0.8

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 6-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104222

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885265		22.2	0.92	0.39	0.1	0.02	0.220	0.05	9.0	1.3	6.90	2830	0.36	0.01	0.8	10.0
H885266		12.65	0.66	0.25	0.1	0.01	0.100	0.04	4.2	1.3	8.20	1500	0.15	0.01	1.0	3.2
H885267		13.05	0.73	0.23	0.1	0.01	0.061	0.05	3.4	1.3	8.25	1100	0.18	0.01	0.5	4.4
H885268		34.7	1.45	0.52	<0.1	0.01	0.058	0.09	2.0	0.5	2.10	718	0.47	0.01	0.8	2.7
H885269		4.04	0.69	0.09	0.1	<0.01	0.028	0.05	2.9	1.4	11.00	786	0.42	0.01	0.6	4.4
H885270		13.55	22.0	0.34	1.5	0.01	0.079	3.03	37.9	19.0	2.66	874	0.34	0.06	24.1	67.2
H885271		22.5	1.09	0.42	0.1	0.06	0.059	0.07	21.7	1.2	4.65	1420	9.91	0.01	1.7	12.5
H885272		16.10	1.45	0.29	0.1	0.02	0.071	0.07	8.2	1.4	7.78	2850	0.20	0.01	1.1	9.2
H885273		15.70	1.53	0.28	0.1	0.01	0.110	0.08	2.5	1.3	7.16	2890	0.11	0.01	1.3	6.7
H885274		41.5	0.70	0.54	0.1	0.04	0.035	0.02	13.6	2.0	0.82	804	0.12	0.01	0.5	4.8
H885275		11.40	1.85	0.21	0.2	0.01	0.105	0.10	2.8	1.8	8.66	3430	0.08	0.01	1.3	5.4
H885276		13.70	2.33	0.24	0.2	0.01	0.124	0.13	2.7	2.1	9.32	3730	0.09	0.02	1.5	6.0
H885277		8.30	1.27	0.17	0.1	<0.01	0.060	0.07	2.6	2.2	10.30	2930	0.07	0.01	0.8	1.2
H885278		2.32	0.42	0.07	<0.1	0.01	0.104	0.01	2.8	2.8	11.80	1890	0.11	0.01	0.4	1.5
H885279		4.63	0.62	0.11	<0.1	<0.01	0.135	0.02	3.0	2.5	10.65	3030	0.12	0.01	0.3	1.5
H885280		0.44	0.25	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.4	12.75	205	0.24	0.01	0.4	2.3
H885281		6.95	1.05	0.14	0.1	0.01	0.197	0.03	2.5	2.5	9.85	3070	0.08	0.02	0.7	1.7
H885282		9.58	1.75	0.20	0.1	0.01	0.156	0.07	3.1	2.4	8.79	6470	0.09	0.01	0.8	2.4
H885283		28.3	0.98	0.40	0.1	0.02	0.149	0.03	6.0	1.0	5.11	7720	0.49	0.01	0.8	19.2
H885284		0.31	0.58	<0.05	0.1	<0.01	<0.005	0.11	3.2	0.4	0.33	210	<0.05	0.01	1.5	2.5
H885285		9.50	1.50	0.18	0.1	<0.01	0.101	0.09	2.3	2.1	8.93	3850	0.09	0.01	1.0	2.3
H885286		9.35	0.41	0.18	<0.1	<0.01	0.071	0.01	1.6	1.6	9.14	3480	0.07	0.01	0.3	0.9
H885287		9.41	1.18	0.19	0.1	<0.01	0.086	0.06	2.2	2.3	9.48	3690	0.08	0.01	0.7	3.2
H885288		9.65	0.81	0.13	0.1	<0.01	0.087	0.05	1.6	1.8	8.39	2850	0.10	0.01	0.5	2.9
H885289		10.35	1.81	0.20	0.2	<0.01	0.093	0.10	2.5	2.3	9.01	2220	0.10	0.01	1.3	3.9
H885290		13.95	0.87	0.23	0.1	<0.01	0.073	0.04	2.2	1.6	8.06	2680	0.06	0.01	0.6	1.8
H885291		16.10	0.99	0.32	0.1	<0.01	0.085	0.06	33.2	1.7	6.74	2160	5.05	0.01	0.7	6.6
H885292		5.52	0.72	0.07	0.1	<0.01	0.173	0.02	6.4	2.1	10.10	5850	0.54	0.02	0.5	0.8
H885293		4.49	1.51	0.07	0.2	<0.01	0.094	0.09	5.3	3.6	9.95	8490	0.13	0.02	1.3	1.1
H885294		4.90	1.22	0.10	0.1	<0.01	0.080	0.04	3.5	3.2	9.51	8390	0.30	0.02	0.6	1.5
H885295		0.34	0.53	<0.05	0.1	<0.01	0.007	0.10	3.3	0.8	0.47	310	0.07	0.01	1.1	2.0
H885296		0.21	0.31	<0.05	<0.1	<0.01	0.062	0.04	2.2	0.7	4.55	812	0.13	0.01	0.3	1.7
H885297		0.82	0.56	<0.05	<0.1	<0.01	0.171	0.05	2.3	1.2	8.91	3030	0.14	0.02	0.2	2.3
H885298		1.27	1.02	<0.05	0.1	<0.01	0.301	0.08	2.2	1.7	11.00	4850	0.19	0.02	0.4	2.2
H885299		1.45	0.81	<0.05	0.1	<0.01	0.310	0.05	2.2	1.7	11.30	6300	0.44	0.02	0.3	2.7
H885300		0.19	0.20	<0.05	<0.1	<0.01	0.121	0.02	1.6	0.4	1.86	787	0.18	0.01	0.3	1.2

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CERTIFICATE OF ANALYSIS VA09104222

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885265		180	39.5	2.7	<0.002	>10.0	5.72	0.2	5	0.9	99.3	<0.05	0.19	0.3	0.008	0.06
H885266		100	11.0	2.4	<0.002	>10.0	8.89	0.2	4	0.4	75.6	0.05	0.21	<0.2	0.005	0.05
H885267		160	6.8	2.5	<0.002	>10.0	5.88	0.5	4	0.3	61.3	<0.05	0.14	<0.2	0.005	0.04
H885268		80	7.6	5.3	<0.002	>10.0	27.0	<0.1	13	0.3	26.3	<0.05	0.47	<0.2	0.006	0.06
H885269		100	3.8	2.4	<0.002	2.05	2.71	0.3	2	<0.2	46.9	<0.05	0.06	<0.2	0.011	0.04
H885270		2000	3.5	93.0	0.005	>10.0	2.35	12.2	2	3.1	13.3	1.35	<0.05	3.8	0.819	1.02
H885271		60	6.2	7.5	0.003	>10.0	22.3	0.1	9	2.0	59.0	0.08	1.47	0.3	0.009	0.16
H885272		210	14.0	3.4	<0.002	>10.0	5.82	0.3	3	0.4	98.7	0.05	0.22	<0.2	0.019	0.08
H885273		180	47.2	4.5	<0.002	>10.0	4.67	0.4	3	1.5	81.4	0.06	0.18	<0.2	0.021	0.08
H885274		30	330	0.9	<0.002	>10.0	19.05	<0.1	9	6.4	12.6	<0.05	1.01	0.2	<0.005	0.15
H885275		300	28.0	6.3	<0.002	>10.0	3.97	0.5	2	1.5	105.5	0.06	0.19	0.2	0.022	0.10
H885276		330	39.4	8.4	<0.002	>10.0	4.62	0.6	2	2.1	115.5	0.07	0.18	0.2	0.027	0.10
H885277		150	16.5	5.1	<0.002	7.91	1.49	0.5	2	0.8	106.5	<0.05	0.06	<0.2	0.011	0.10
H885278		50	8.7	1.3	<0.002	1.32	0.82	0.1	2	0.9	57.3	<0.05	<0.05	<0.2	<0.005	0.03
H885279		110	82.6	2.2	<0.002	3.30	0.82	0.5	2	1.7	87.1	<0.05	<0.05	<0.2	<0.005	0.07
H885280		290	1.6	1.4	<0.002	0.02	0.07	0.1	1	<0.2	49.4	<0.05	<0.05	<0.2	<0.005	<0.02
H885281		130	294	3.3	<0.002	5.98	0.99	0.1	2	3.7	78.5	<0.05	0.05	<0.2	0.009	0.04
H885282		140	186.5	8.5	0.002	7.93	1.53	0.2	2	5.0	129.0	<0.05	0.05	<0.2	0.012	0.10
H885283		130	477	2.3	<0.002	9.45	4.32	0.1	4	2.6	52.9	<0.05	0.26	<0.2	0.008	0.07
H885284		130	1.8	2.5	<0.002	0.16	<0.05	0.4	2	<0.2	133.0	0.08	<0.05	0.2	0.026	<0.02
H885285		120	26.8	8.1	0.002	8.27	3.07	0.2	2	2.5	124.0	0.05	0.14	<0.2	0.017	0.11
H885286		60	45.7	1.0	0.002	8.33	3.71	0.1	2	0.6	127.0	<0.05	0.13	<0.2	<0.005	0.05
H885287		160	396	4.1	0.002	7.55	4.78	0.2	2	1.1	123.5	<0.05	0.15	<0.2	0.010	0.12
H885288		220	31.1	3.7	0.002	8.37	6.05	0.2	2	1.3	83.4	<0.05	0.17	<0.2	0.008	0.08
H885289		300	32.9	8.2	<0.002	>10.0	4.65	0.4	3	1.7	76.8	0.07	0.19	<0.2	0.026	0.12
H885290		110	40.6	4.3	<0.002	>10.0	4.75	0.2	2	1.5	89.6	<0.05	0.13	<0.2	0.007	0.08
H885291		110	13.8	6.9	0.006	>10.0	20.9	0.1	5	1.1	88.1	<0.05	0.89	0.4	0.008	0.10
H885292		110	110.0	1.0	<0.002	1.87	1.53	0.7	2	1.2	115.0	<0.05	0.07	0.3	0.009	0.06
H885293		230	26.9	7.3	<0.002	1.19	2.85	1.0	2	1.9	164.0	0.07	0.12	0.4	0.024	0.09
H885294		220	22.1	4.1	0.002	0.98	1.00	0.5	2	1.0	152.0	<0.05	<0.05	<0.2	0.008	0.07
H885295		120	1.5	3.5	<0.002	0.18	0.09	0.3	2	<0.2	144.5	0.06	<0.05	0.2	0.020	0.03
H885296		10	4.6	2.0	<0.002	0.08	0.16	0.2	2	0.4	147.5	<0.05	<0.05	0.2	0.005	0.02
H885297		20	19.0	1.7	<0.002	0.01	2.92	0.3	2	0.9	140.5	<0.05	<0.05	0.2	<0.005	0.03
H885298		10	17.7	3.0	<0.002	0.01	1.07	0.1	2	1.5	141.5	<0.05	<0.05	0.3	0.010	0.03
H885299		10	15.3	1.8	<0.002	0.05	1.64	0.2	2	0.9	144.5	<0.05	<0.05	0.2	0.007	0.03
H885300		10	2.9	0.8	<0.002	0.11	0.08	<0.1	2	0.3	133.5	<0.05	<0.05	<0.2	<0.005	0.02

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 6-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104222

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885265		0.5	6	1.6	11.4	418	3.4	
H885266		0.2	10	92.1	6.8	47	5.2	
H885267		0.2	15	63.4	7.1	52	2.5	
H885268		0.1	7	2.4	4.4	21	1.9	
H885269		0.2	17	1.1	4.7	55	2.8	
H885270		0.9	129	6.7	14.4	105	64.0	
H885271		0.4	6	36.2	4.2	10	5.1	4.76
H885272		0.4	12	27.6	6.7	52	6.3	
H885273		0.3	15	47.8	6.9	414	5.8	
H885274		0.6	2	21.2	3.9	2810	1.7	1.60
H885275		1.6	13	97.6	5.8	334	8.1	
H885276		0.5	15	46.1	6.2	355	10.8	
H885277		0.3	11	91.8	6.2	77	4.8	
H885278		0.1	10	5.4	4.2	236	1.8	
H885279		0.1	13	73.4	7.6	357	1.2	
H885280		0.7	5	0.7	0.9	17	0.5	
H885281		0.2	10	10.3	4.8	747	3.8	
H885282		0.4	7	150.0	6.1	616	4.9	
H885283		1.5	5	3.7	15.4	2620	3.9	
H885284		0.1	8	0.4	3.8	9	3.2	
H885285		0.3	9	126.0	5.4	117	5.6	1.03
H885286		0.3	5	119.0	5.3	278	1.4	1.22
H885287		0.3	12	96.7	6.3	562	4.8	1.55
H885288		0.2	14	189.5	4.7	236	4.7	3.60
H885289		0.3	15	55.7	5.0	146	7.7	1.38
H885290		0.2	9	90.4	6.3	235	3.1	
H885291		0.6	7	201	6.5	137	2.8	2.62
H885292		0.5	8	141.5	12.5	430	3.7	
H885293		1.2	10	91.2	17.1	129	7.1	
H885294		0.8	13	106.0	15.1	182	4.9	
H885295		0.2	8	14.5	4.4	8	4.7	
H885296		0.2	6	0.4	3.5	55	1.5	
H885297		0.5	7	0.3	3.7	302	1.5	
H885298		0.5	7	0.5	2.3	132	2.9	
H885299		0.4	7	0.4	2.8	240	2.0	
H885300		0.4	6	0.2	1.9	68	0.9	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 6-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09104222

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

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Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE VA09100782

Project: RAU

P.O. No.: Batch 49

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100782

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885877		4.12	<0.01	0.08	0.19	24	190	0.21	1.03	20.5	0.20	3.85	1.0	4	0.14	1.6
H885878		3.74	0.01	0.07	0.11	11	140	0.16	0.82	19.15	0.09	4.51	0.8	1	0.11	1.3
H885879		4.26	<0.01	0.07	0.15	29	210	0.17	1.45	19.35	0.15	4.00	0.8	2	0.13	1.6
H885880		5.12	<0.01	0.13	0.20	25	350	0.23	0.74	18.90	0.75	4.19	0.8	5	0.13	1.4
H885881		0.28	0.42	0.85	0.79	5820	100	0.28	109.5	12.00	0.15	33.1	5.4	14	1.90	32.2
H885882		4.64	1.18	0.42	9.52	7460	1130	2.52	85.4	0.39	1.53	74.1	1.0	111	10.50	4.6
H885883		0.64	0.63	0.36	4.51	>10000	300	1.31	55.3	1.30	4.25	52.5	2.5	86	7.57	20.1
H885884		1.82	1.90	1.17	2.47	>10000	280	0.72	734	0.83	4.78	39.8	2.9	44	14.15	15.8
H885885		0.64	1.34	1.95	0.44	>10000	390	0.06	834	0.26	1.87	11.10	0.9	17	5.87	5.3
H885886		1.76	9.91	56.2	0.58	>10000	180	0.16	1750	0.73	1.42	14.25	0.9	19	1.26	10.8
H885887		2.98	4.25	22.0	1.39	>10000	3140	0.57	2610	0.49	18.70	18.45	3.8	23	1.16	32.8
H885888		3.54	0.01	0.07	0.07	54	50	0.06	4.03	20.5	0.09	1.42	1.1	5	0.13	1.6
H885889		2.28	5.57	31.4	0.94	>10000	2690	0.53	333	0.90	9.77	26.0	2.4	17	0.32	167.5
H885890		3.28	3.37	1.14	0.41	>10000	2820	0.14	426	0.98	6.74	21.0	2.0	2	0.29	21.8
H885891		0.28	5.33	0.37	0.13	>10000	30	0.13	510	9.48	0.02	38.8	1.8	15	0.72	45.4
H885892		2.28	0.89	0.84	0.38	>10000	310	0.13	203	15.80	3.88	14.55	2.9	4	0.25	18.1
H885893		2.80	0.33	0.15	2.00	5710	310	0.46	26.1	14.95	3.56	14.20	13.9	10	8.42	9.0
H885894		2.84	0.17	0.18	6.24	9510	1570	2.28	10.55	0.81	2.51	57.2	15.2	51	10.90	46.2
H885895		4.50	0.14	0.13	8.12	5870	690	2.56	6.24	0.39	1.39	102.0	14.0	66	13.65	31.4
H885896		4.02	<0.01	0.01	0.09	22	20	0.06	0.36	20.6	0.06	1.74	1.1	3	0.18	3.1
H885897		2.66	0.34	0.19	7.91	>10000	5210	2.37	3.41	0.81	7.39	99.3	38.0	56	7.00	56.7
H885898		4.12	0.22	0.98	6.74	>10000	3540	2.14	39.6	0.47	4.87	42.3	10.8	55	6.35	76.7
H885899		1.18	0.09	0.12	10.95	7160	3450	2.45	18.55	0.24	0.98	16.00	1.1	88	8.91	11.4
H885900		1.72	0.10	0.18	6.81	>10000	2200	1.52	21.6	0.38	3.02	63.9	7.5	52	6.38	69.1
H885901		2.38	0.05	0.09	6.30	>10000	1570	1.41	16.15	0.40	3.91	35.7	8.2	50	4.75	88.1
H885902		1.32	0.13	0.11	6.71	>10000	1750	1.51	52.6	0.51	6.93	66.1	4.2	67	4.90	94.7
H885903		3.50	0.08	0.13	6.10	>10000	1830	1.66	44.9	0.51	5.54	68.6	9.4	48	5.82	52.6
H885904		3.58	0.06	0.34	4.00	>10000	870	1.64	8.36	0.51	10.35	106.5	15.3	36	3.66	39.8
H885905		4.16	0.06	0.28	1.83	>10000	980	1.01	22.4	0.96	18.55	116.5	3.3	30	0.47	102.5
H885906		3.30	0.86	1.92	2.67	>10000	500	1.09	2.74	0.64	11.70	50.8	6.3	20	0.73	46.5
H885907		1.58	0.98	1.89	2.77	>10000	460	1.12	1.12	0.67	11.90	51.3	6.4	21	0.75	49.9
H885908		5.86	<0.01	0.03	0.48	62	80	0.13	0.09	35.8	0.10	7.17	1.7	7	0.22	7.1
H885909		7.06	0.02	0.05	0.18	167	40	0.09	0.10	33.0	0.75	4.83	2.2	4	0.12	2.2
H885910		7.76	0.01	0.04	0.33	16	50	0.11	0.12	27.3	0.14	5.40	2.0	3	0.21	12.1
H885911		3.68	<0.01	0.03	0.25	36	40	0.07	0.13	34.6	0.44	5.97	1.4	2	0.10	5.8
H885912		4.26	<0.01	0.04	0.37	10	70	0.11	0.15	34.0	0.55	6.69	1.2	3	0.18	2.1

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100782

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885877		0.45	0.66	<0.05	0.1	<0.01	0.007	0.06	2.4	2.0	13.00	511	1.46	0.02	0.3	1.8
H885878		0.32	0.44	<0.05	<0.1	<0.01	0.015	0.04	2.9	1.7	12.45	439	1.68	0.01	0.2	1.7
H885879		0.77	0.64	<0.05	0.1	<0.01	0.010	0.05	2.4	2.3	12.40	539	1.03	0.01	0.2	1.9
H885880		0.57	0.80	<0.05	0.1	<0.01	0.025	0.07	2.6	1.8	11.95	736	0.48	0.01	0.4	1.9
H885881		14.20	3.64	0.22	0.2	<0.01	0.065	0.39	18.7	4.2	6.61	1980	16.25	0.03	2.4	20.1
H885882		10.75	36.0	0.25	1.4	0.01	0.076	5.86	37.3	30.8	1.41	124	0.64	0.12	31.4	3.3
H885883		21.1	20.8	0.34	0.7	<0.01	0.201	2.81	31.2	17.6	2.06	286	0.83	0.06	5.1	10.7
H885884		19.50	14.00	0.41	1.1	0.01	0.093	1.48	22.2	13.1	1.37	249	0.65	0.03	3.5	13.9
H885885		9.49	5.00	0.25	0.5	0.02	<0.005	0.66	7.3	3.9	0.10	133	0.33	0.02	2.1	3.0
H885886		11.65	5.15	0.43	1.9	0.52	0.105	0.71	6.1	3.6	0.16	125	1.11	0.03	2.9	3.7
H885887		>50	7.52	0.83	1.6	0.14	0.298	0.68	12.1	2.6	0.16	600	7.12	0.06	3.7	20.5
H885888		0.52	0.27	<0.05	<0.1	<0.01	<0.005	0.03	0.7	1.1	13.20	195	0.13	0.01	0.3	1.8
H885889		48.4	3.64	0.79	0.2	0.07	0.371	0.17	11.8	1.3	0.14	1310	1.50	0.06	0.6	5.8
H885890		48.6	1.43	0.67	0.1	0.02	0.206	0.11	10.5	1.7	0.09	1440	1.68	0.05	0.5	4.7
H885891		25.1	1.85	0.39	0.2	<0.01	0.047	0.07	24.0	1.6	5.17	1550	10.85	0.01	1.3	13.8
H885892		22.3	1.63	0.27	0.2	<0.01	0.071	0.02	5.9	1.2	2.96	3030	1.26	0.02	0.6	10.8
H885893		13.35	8.53	0.18	1.1	<0.01	0.034	0.72	6.3	13.7	6.44	2440	0.39	0.02	4.6	27.3
H885894		25.5	29.1	0.42	1.1	<0.01	0.142	2.32	25.9	31.6	3.21	1460	0.62	0.05	3.9	48.1
H885895		16.40	28.8	0.38	0.2	<0.01	0.150	4.19	43.7	39.1	1.94	685	0.46	0.09	4.9	58.1
H885896		0.48	0.33	<0.05	<0.1	<0.01	<0.005	0.03	0.8	1.3	13.15	194	0.13	0.01	0.3	1.6
H885897		22.1	28.4	0.47	0.8	<0.01	0.185	3.44	42.8	22.8	0.79	1240	0.67	0.15	3.6	97.5
H885898		30.9	23.9	0.50	0.6	<0.01	0.242	2.99	19.8	15.2	0.51	2110	0.65	0.12	4.3	41.9
H885899		7.93	35.6	0.17	0.5	<0.01	0.206	5.73	8.5	21.0	0.72	341	0.49	0.17	11.3	26.5
H885900		27.0	20.2	0.45	0.6	<0.01	0.158	3.10	32.6	11.6	0.44	1870	0.56	0.10	4.4	49.3
H885901		29.7	18.25	0.48	1.4	<0.01	0.244	2.62	14.3	9.4	0.38	2390	0.64	0.08	3.4	49.3
H885902		28.7	20.7	0.48	1.8	<0.01	0.462	2.59	31.0	9.7	0.34	1500	0.81	0.08	2.8	38.8
H885903		31.4	19.85	0.68	0.6	0.02	0.212	2.26	29.7	10.2	0.27	1760	0.82	0.07	9.2	56.3
H885904		37.2	13.95	0.98	0.4	0.03	0.152	0.97	42.1	11.6	0.14	1910	0.69	0.03	17.4	49.5
H885905		48.7	9.12	0.86	0.3	0.01	0.372	0.39	49.0	2.8	0.09	957	0.92	0.03	1.3	15.5
H885906		42.9	5.92	0.75	0.5	0.04	0.071	0.85	27.3	5.4	0.66	1180	4.23	0.02	1.8	28.9
H885907		40.2	5.81	0.71	0.6	0.05	0.069	0.81	27.2	5.6	0.78	1320	4.88	0.02	2.2	34.4
H885908		0.51	1.25	<0.05	0.3	<0.01	<0.005	0.25	5.7	1.4	1.50	214	0.05	0.01	2.4	1.9
H885909		2.22	0.51	0.06	0.1	<0.01	<0.005	0.08	4.2	1.0	2.93	643	0.55	0.01	0.6	2.7
H885910		0.54	0.95	<0.05	0.1	<0.1	<0.005	0.16	4.5	1.4	3.89	243	0.17	<0.01	1.7	3.7
H885911		1.01	0.71	0.05	0.1	<0.01	<0.005	0.11	5.4	0.7	0.77	295	0.13	<0.01	1.4	1.6
H885912		0.83	1.20	0.05	0.2	<0.1	0.006	0.18	6.2	0.9	0.38	285	0.06	<0.01	2.3	2.1

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100782

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885877		10	8.5	4.0	0.002	0.21	0.42	0.7	2	0.4	54.6	<0.05	<0.05	0.3	0.008	0.04
H885878		10	8.0	2.6	<0.002	0.18	0.29	0.6	2	0.3	50.0	<0.05	<0.05	0.2	<0.005	0.04
H885879		10	7.5	2.5	<0.002	0.69	0.29	0.6	3	0.2	55.3	<0.05	<0.05	0.2	0.005	0.04
H885880		10	16.2	4.2	<0.002	0.36	0.29	0.7	2	0.9	59.2	<0.05	<0.05	0.2	0.009	0.04
H885881		220	12.3	29.4	0.015	>10.0	4.32	1.9	6	2.9	81.4	0.15	0.18	0.7	0.069	0.26
H885882		1060	10.1	300	0.003	2.41	6.83	18.5	9	7.5	470	1.83	0.42	7.7	0.476	2.50
H885883		1430	11.7	211	0.004	2.49	13.05	15.8	7	2.7	466	0.28	0.63	7.9	0.114	1.89
H885884		1390	125.0	169.5	0.002	1.86	25.2	6.1	8	2.0	691	0.50	0.80	4.1	0.081	1.58
H885885		430	92.9	198.0	<0.002	1.10	28.8	3.1	11	1.2	249	0.09	2.27	1.1	0.049	2.37
H885886		1180	6140	132.0	0.010	1.09	292	3.5	56	10.2	442	0.09	2.70	0.9	0.129	3.05
H885887		450	1590	43.2	0.011	0.42	173.0	4.5	12	5.4	65.2	0.20	3.71	2.0	0.124	1.16
H885888		220	6.1	1.3	<0.002	0.02	0.46	0.5	2	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	<0.02
H885889		370	711	9.8	0.003	0.29	39.9	3.6	39	0.4	55.5	<0.05	1.05	0.3	0.012	0.50
H885890		240	238	20.0	<0.002	0.26	22.8	1.0	11	0.3	62.3	<0.05	0.86	0.2	<0.005	0.37
H885891		60	7.7	8.1	<0.002	>10.0	23.7	1.7	9	2.4	59.1	0.06	1.28	0.4	0.008	0.09
H885892		290	121.0	1.7	0.002	0.06	6.65	1.3	5	0.6	23.1	<0.05	0.31	0.2	0.014	0.12
H885893		910	8.8	130.5	<0.002	0.13	1.42	3.5	3	1.9	54.8	0.27	0.11	0.9	0.175	1.15
H885894		2260	9.1	207	0.002	1.87	1.25	15.8	4	5.3	287	0.22	0.25	3.0	0.274	2.02
H885895		1710	4.7	229	0.003	1.70	1.53	20.5	4	3.1	143.5	0.29	0.11	4.7	0.305	2.07
H885896		360	1.6	1.6	<0.002	0.03	0.08	0.5	2	<0.2	50.0	<0.05	<0.05	<0.2	<0.005	<0.02
H885897		2240	13.0	113.0	<0.002	0.08	2.85	18.0	5	1.5	37.1	0.25	0.10	4.8	0.235	0.67
H885898		1320	107.5	88.0	<0.002	0.08	7.07	16.3	5	1.5	34.7	0.30	0.22	3.4	0.230	0.56
H885899		410	10.7	135.5	<0.002	0.31	1.74	26.9	2	2.4	91.7	0.84	0.06	2.6	0.523	0.73
H885900		1370	7.3	93.7	0.002	0.61	2.33	15.6	4	1.6	140.5	0.31	0.11	3.1	0.240	0.64
H885901		1250	4.1	69.5	<0.002	0.05	1.81	15.7	4	1.2	31.7	0.23	0.14	3.8	0.170	0.45
H885902		1300	8.8	65.5	<0.002	0.11	4.32	16.2	4	1.3	116.0	0.19	0.19	5.6	0.160	0.62
H885903		1590	6.0	68.9	0.002	0.28	9.08	15.7	5	1.3	127.0	0.66	0.10	6.5	0.484	0.79
H885904		1350	24.1	41.8	0.002	0.34	5.60	11.3	5	1.3	120.5	1.09	0.09	4.9	0.573	0.64
H885905		2080	8.4	11.0	<0.002	0.24	2.47	7.8	6	0.3	163.0	0.07	0.23	5.6	0.032	0.88
H885906		1410	4.3	21.9	<0.002	0.03	1.58	6.7	6	0.4	21.5	0.10	0.13	1.9	0.056	0.41
H885907		1490	4.4	21.1	<0.002	0.02	1.90	7.1	5	0.4	19.4	0.13	0.13	1.9	0.067	0.45
H885908		270	1.1	6.9	<0.002	0.20	0.19	1.5	3	<0.2	136.5	0.15	<0.05	0.5	0.053	0.03
H885909		90	1.8	2.3	<0.002	0.08	0.26	0.7	3	<0.2	108.0	<0.05	<0.05	0.2	0.012	0.02
H885910		130	5.4	5.2	<0.002	0.29	0.47	0.9	3	<0.2	89.4	0.09	<0.05	0.4	0.032	0.02
H885911		160	6.7	3.9	<0.002	0.14	0.25	0.8	3	<0.2	115.5	0.08	<0.05	0.3	0.024	<0.02
H885912		240	8.6	7.4	<0.002	0.40	0.17	1.1	3	0.2	123.5	0.13	<0.05	0.4	0.041	0.02

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100782

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885877		0.3	7	1.4	1.8	70	2.8	
H885878		0.3	8	1.0	2.6	32	1.6	
H885879		0.2	7	1.0	2.1	43	1.9	
H885880		0.4	8	1.0	2.2	169	3.2	
H885881		0.4	18	60.4	6.2	32	9.7	
H885882		1.4	146	231	5.9	152	63.6	
H885883		5.2	86	288	10.6	242	28.0	3.21
H885884		3.6	47	480	8.3	538	45.9	2.31
H885885		0.9	16	470	2.3	218	16.6	1.09
H885886		2.7	28	1150	2.9	352	70.1	3.12
H885887		3.2	34	1470	10.2	5800	55.2	2.06
H885888		0.4	5	3.3	0.9	23	0.5	
H885889		6.3	36	248	17.2	1220	6.3	3.57
H885890		5.7	9	101.5	13.6	865	3.3	4.16
H885891		0.4	7	36.5	4.1	12	5.0	4.90
H885892		2.5	19	137.0	14.9	899	8.0	1.04
H885893		1.9	41	11.4	10.1	633	41.8	
H885894		4.2	161	33.8	13.8	948	43.6	
H885895		2.0	121	12.2	10.9	378	7.1	
H885896		0.5	5	0.3	1.0	16	0.5	
H885897		3.5	168	12.2	17.6	798	29.9	1.21
H885898		3.3	171	60.1	9.5	1720	27.3	1.50
H885899		1.1	265	23.1	2.5	247	20.3	
H885900		2.6	156	27.4	13.3	1210	25.3	1.35
H885901		4.8	170	39.6	14.0	1110	54.8	1.56
H885902		4.6	180	62.2	17.8	904	78.4	1.90
H885903		3.8	163	84.6	20.1	940	24.8	1.89
H885904		4.5	75	101.5	34.2	1220	14.3	2.00
H885905		8.4	50	17.9	19.8	895	7.8	3.98
H885906		7.9	32	8.7	18.6	2660	17.8	2.08
H885907		8.5	32	9.3	18.9	3100	23.4	2.20
H885908		0.2	10	0.2	5.1	16	10.2	
H885909		0.3	6	0.4	4.4	294	2.7	
H885910		0.1	2	0.2	3.9	30	6.3	
H885911		0.2	1	0.4	5.0	97	5.2	
H885912		0.3	7	0.4	6.7	57	9.4	

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100782

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE VA09100781

Project: RAU

P.O. No.: Batch 48

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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Project: RAU

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CERTIFICATE OF ANALYSIS VA09100781

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885841		7.62	0.28	11.85	1.13	742	70	0.39	90.7	7.66	4.05	3.63	2.7	26	0.94	22.7
H885842		3.88	<0.01	0.02	0.11	9	20	0.09	0.38	20.2	0.07	1.75	1.0	2	0.30	1.5
H885843		5.82	0.01	1.86	1.45	56	100	0.46	8.01	15.75	5.84	9.63	3.2	24	1.35	11.0
H885844		5.26	<0.01	1.53	0.17	99	220	0.24	7.42	16.10	3.32	6.88	1.6	3	0.73	10.1
H885845		4.94	0.02	24.4	0.14	32	150	0.24	243	17.45	45.8	4.60	1.3	3	0.29	24.1
H885846		4.74	<0.01	0.10	0.33	27	100	0.24	4.88	20.3	0.27	4.65	0.9	6	0.85	2.5
H885847		5.26	<0.01	0.05	0.20	18	30	0.25	0.75	18.10	0.05	3.28	0.7	6	0.84	1.5
H885848		0.28	5.36	0.26	0.12	>10000	30	<0.05	488	8.87	0.03	40.7	1.9	15	0.76	43.4
H885849		3.98	<0.01	0.19	0.15	15	3300	0.19	0.79	18.50	0.47	3.01	0.8	3	0.29	1.7
H885850		3.70	0.01	0.85	0.51	151	170	0.35	13.70	17.45	1.31	6.22	5.4	11	1.81	4.3
H885851		4.96	<0.01	0.25	0.17	20	80	0.16	1.43	19.20	1.17	3.85	1.0	4	0.68	6.4
H885852		2.56	<0.01	0.28	0.19	18	90	0.18	1.39	19.05	1.12	3.72	1.5	4	0.60	5.3
H885853		4.80	0.02	3.65	1.30	14.3	70	0.25	1010	0.72	0.35	3.82	38.2	39	6.70	337
H885854		1.68	0.01	0.41	6.14	38.2	160	1.42	57.3	0.63	<0.02	13.65	33.9	223	21.8	119.5
H885855		4.26	<0.01	0.12	7.59	6.4	1920	1.56	1.45	5.92	<0.02	25.3	21.7	266	23.0	20.9
H885856		2.82	0.02	0.95	4.01	<0.2	250	1.65	7890	1.29	<0.02	11.95	24.2	143	11.95	143.5
H885857		3.92	<0.01	0.01	0.08	16	20	0.08	5.77	19.05	0.06	1.52	1.0	2	0.18	1.6
H885858		3.58	0.07	0.32	6.63	3.6	350	0.98	759	1.20	<0.02	38.7	30.4	243	52.2	89.3
H885859		3.84	<0.01	0.15	6.77	8.3	1460	1.14	21.6	8.37	<0.02	33.9	41.8	170	50.7	14.8
H885860		3.56	0.02	0.27	5.88	13.6	390	0.80	11.45	4.66	<0.02	17.05	34.5	176	37.3	30.5
H885861		3.46	0.01	0.30	6.31	9.6	540	0.75	60.6	4.33	<0.02	23.9	43.4	195	45.3	61.8
H885862		3.50	<0.01	0.18	6.57	11.2	1860	0.83	2.39	8.14	0.02	53.2	36.4	181	43.1	37.4
H885863		3.88	<0.01	0.12	7.23	1.7	1880	0.73	2.58	9.56	<0.02	29.8	39.9	220	56.7	30.1
H885864		0.28	0.51	0.90	0.87	6400	100	0.34	112.5	13.00	0.18	38.7	5.2	14	2.19	33.5
H885865		3.96	0.01	0.19	5.69	146	280	0.96	9.25	11.50	0.02	18.30	26.4	161	39.0	30.4
H885866		5.48	<0.01	0.11	0.24	22	30	0.15	7.99	18.30	0.05	4.89	8.3	2	1.96	17.5
H885867		5.50	<0.01	0.09	0.16	7	20	0.18	9.59	18.85	0.04	4.42	12.4	<1	1.33	17.4
H885868		1.90	0.01	1.33	0.56	6.8	20	0.90	1930	0.90	0.10	1.20	49.6	<1	7.72	420
H885869		5.72	<0.01	0.12	0.09	<5	20	0.11	8.02	18.45	0.04	4.50	5.0	<1	0.88	24.4
H885870		5.68	<0.01	0.14	0.04	5	20	0.14	65.0	18.50	0.04	3.78	2.9	<1	0.44	25.4
H885871		3.96	<0.01	0.04	0.03	5	20	0.08	5.10	19.65	0.04	3.53	1.4	<1	0.29	7.5
H885872		5.58	<0.01	0.07	0.06	15	20	0.12	0.80	20.2	0.03	3.31	0.8	1	0.49	5.1
H885873		5.30	<0.01	0.04	0.07	37	40	0.12	1.93	19.70	0.03	3.03	2.6	1	0.67	6.2
H885874		4.34	0.02	0.25	0.70	17	340	0.45	5.04	19.20	0.28	5.58	1.3	8	0.64	3.8
H885875		1.50	0.02	0.17	0.31	55	190	0.28	0.93	15.45	2.32	3.64	1.2	5	0.43	3.4
H885876		1.02	<0.01	0.06	0.18	13	220	0.23	0.40	19.35	0.34	4.50	0.5	1	0.30	1.0

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100781

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885841		22.0	7.32	0.18	0.3	0.03	0.433	0.34	1.7	4.8	3.91	3590	1.50	0.02	1.2	18.1
H885842		0.46	0.41	0.05	<0.1	<0.01	<0.005	0.04	0.8	1.6	13.00	200	0.14	0.01	0.4	1.5
H885843		2.57	4.69	0.08	0.4	0.01	0.261	0.29	5.0	4.9	9.89	2500	2.47	0.33	1.7	9.0
H885844		4.93	1.37	0.11	0.1	0.01	0.296	0.03	3.5	2.9	9.85	2680	1.81	0.02	0.2	4.0
H885845		2.04	1.13	0.06	0.1	0.04	0.038	0.02	2.4	2.0	9.21	2980	2.18	0.02	0.2	4.8
H885846		0.72	1.43	0.05	0.1	<0.01	<0.005	0.06	2.5	2.4	11.05	612	1.08	0.02	0.6	3.1
H885847		0.28	0.79	<0.05	0.1	<0.01	0.013	0.06	1.9	2.3	10.70	365	0.36	0.01	0.4	7.3
H885848		23.6	1.42	0.37	0.2	0.01	0.070	0.07	25.9	1.5	4.85	1440	11.25	0.01	1.5	13.6
H885849		0.35	0.55	<0.05	0.1	<0.01	0.013	0.05	1.9	2.7	10.75	510	0.36	0.06	0.3	2.1
H885850		4.19	2.42	0.09	0.2	<0.01	0.101	0.20	3.2	3.8	10.45	1300	0.48	0.02	0.8	12.5
H885851		0.75	0.90	<0.05	0.1	<0.01	0.064	0.08	2.2	4.3	11.70	805	0.20	0.01	0.4	3.3
H885852		0.87	0.99	0.06	0.1	<0.01	0.056	0.08	2.2	4.2	11.65	830	0.19	0.01	0.4	2.9
H885853		34.0	8.50	0.56	0.4	<0.01	0.068	0.47	0.9	5.7	1.74	342	0.73	0.04	1.8	62.9
H885854		15.30	23.7	0.26	1.2	<0.01	0.020	4.46	4.5	45.5	2.83	212	0.91	0.14	5.9	69.6
H885855		3.95	24.3	0.13	0.6	<0.01	0.038	4.66	12.7	51.9	2.42	340	0.50	0.14	11.3	165.0
H885856		15.40	17.75	<0.05	1.1	<0.1	<0.005	2.13	3.4	23.7	1.99	146	<0.05	0.11	3.3	174.0
H885857		0.43	0.30	0.05	<0.1	<0.01	<0.005	0.03	0.7	1.2	12.30	176	0.09	0.01	0.3	1.6
H885858		11.90	24.6	0.42	2.6	0.01	<0.005	6.37	15.4	59.2	5.50	222	0.10	0.17	11.2	204
H885859		5.31	18.45	0.15	1.3	<0.01	0.025	4.53	17.5	49.3	4.31	589	0.07	0.15	8.3	185.0
H885860		7.70	18.80	0.17	0.8	<0.01	0.013	4.32	7.8	38.7	3.61	316	0.10	0.16	8.9	184.0
H885861		10.20	19.20	0.20	1.1	<0.01	0.017	4.96	10.6	43.7	4.47	353	0.15	0.16	7.9	268
H885862		5.84	19.45	0.20	0.7	<0.01	0.025	5.46	27.1	43.5	4.56	506	0.53	0.15	7.6	244
H885863		5.43	17.20	0.14	0.7	<0.01	0.031	5.14	16.2	43.8	4.61	724	0.72	0.15	7.7	220
H885864		15.20	3.53	0.22	0.2	<0.01	0.077	0.42	22.6	4.0	7.14	2130	17.40	<0.01	2.3	20.9
H885865		5.89	12.90	0.12	0.6	<0.01	0.016	4.21	9.7	33.9	6.44	767	0.31	0.03	3.2	123.0
H885866		2.95	1.41	0.07	0.1	<0.01	0.013	0.12	2.6	3.4	12.10	843	0.36	<0.01	0.4	15.2
H885867		1.72	0.99	0.07	<0.1	<0.01	0.007	0.10	2.7	2.7	12.25	525	3.14	<0.01	0.2	18.3
H885868		>50	4.36	0.48	0.1	<0.01	0.053	0.54	0.7	2.7	2.45	56	1.50	<0.01	0.4	55.7
H885869		3.09	0.67	0.07	0.1	<0.01	0.008	0.07	3.2	2.9	12.10	516	1.01	<0.01	0.2	5.9
H885870		3.31	0.40	0.06	<0.1	<0.01	0.010	0.03	2.5	3.5	12.60	569	0.39	<0.01	0.1	2.4
H885871		1.27	0.25	0.07	<0.1	<0.01	0.007	0.02	2.3	3.2	12.80	557	0.21	<0.01	0.1	1.4
H885872		0.45	0.35	0.15	<0.1	<0.01	0.007	0.04	2.4	3.0	13.05	495	0.23	<0.01	0.1	1.2
H885873		0.66	0.36	0.16	<0.1	<0.01	0.006	0.05	2.2	3.4	13.05	417	0.29	<0.01	0.1	3.7
H885874		0.99	2.68	0.11	0.2	<0.01	0.053	0.30	3.2	2.6	12.15	840	2.15	<0.01	1.1	4.3
H885875		5.31	1.80	0.07	0.1	<0.01	4.67	0.11	1.5	1.8	2.80	10000	0.79	<0.01	0.2	4.3
H885876		0.88	0.82	0.09	0.1	<0.01	0.066	0.06	2.4	1.9	12.75	1220	1.39	<0.01	0.2	1.1

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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100781

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885841		30	392	51.3	<0.002	>10.0	8.08	2.8	12	8.7	29.6	0.07	0.26	0.5	0.048	0.57
H885842		250	1.7	2.0	<0.002	0.05	0.06	0.5	2	<0.2	49.6	<0.05	<0.05	<0.2	0.005	<0.02
H885843		110	350	32.0	0.002	1.46	2.47	3.3	2	7.1	94.3	0.09	0.10	0.9	0.083	0.22
H885844		20	232	4.9	0.003	4.48	2.00	0.6	3	1.1	55.3	<0.05	0.05	0.3	0.006	0.08
H885845		10	1840	2.8	0.011	1.49	11.40	0.5	3	1.6	98.6	<0.05	0.24	0.3	0.006	1.09
H885846		10	17.7	10.7	0.023	0.55	3.46	0.9	2	0.4	53.9	<0.05	<0.05	0.5	0.016	0.80
H885847		10	4.3	11.0	0.003	0.11	0.48	0.6	2	0.3	54.2	<0.05	0.07	0.4	0.009	0.09
H885848		60	5.8	7.9	0.003	>10.0	24.7	0.4	9	2.2	60.1	0.08	1.58	0.4	0.008	0.16
H885849		10	18.6	6.7	0.002	0.22	1.28	0.5	2	1.1	68.6	<0.05	<0.05	0.2	0.007	0.16
H885850		20	144.5	35.3	0.003	4.71	2.06	1.6	2	6.3	52.6	<0.05	0.06	0.8	0.027	0.30
H885851		10	78.2	9.2	<0.002	0.35	1.05	0.7	2	1.1	62.6	<0.05	<0.05	0.3	0.009	0.16
H885852		10	101.0	9.7	<0.002	0.43	1.06	0.7	2	1.5	62.3	<0.05	<0.05	0.3	0.010	0.20
H885853		100	40.2	83.4	0.008	>10.0	7.55	2.5	17	4.2	7.6	0.06	1.87	0.5	0.075	1.36
H885854		770	4.2	299	<0.002	8.32	0.97	17.5	5	7.7	35.0	0.29	0.35	1.0	0.350	2.43
H885855		790	2.1	213	<0.002	1.69	1.65	24.8	2	7.9	36.8	0.57	0.07	1.6	0.591	2.03
H885856		380	30.2	225	<0.002	9.24	26.9	17.4	25	9.2	29.4	<0.05	18.00	0.6	0.218	1.04
H885857		240	1.2	1.6	<0.002	0.04	0.05	0.4	2	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	<0.02
H885858		800	7.1	490	<0.002	6.22	4.33	23.5	4	18.6	77.9	0.55	1.77	2.1	0.599	3.99
H885859		690	1.1	428	<0.002	2.31	1.11	22.4	2	7.0	55.2	0.43	0.12	1.7	0.469	3.50
H885860		520	1.9	439	<0.002	3.23	1.47	19.5	3	8.8	59.8	0.45	0.17	1.3	0.459	2.75
H885861		750	1.4	570	<0.002	4.71	1.26	21.8	2	10.0	51.8	0.40	0.19	1.5	0.441	3.50
H885862		830	1.4	450	<0.002	2.78	0.24	22.2	3	7.1	65.7	0.40	0.09	1.9	0.409	3.21
H885863		850	1.7	460	<0.002	2.29	0.42	21.4	1	7.0	81.8	0.44	0.15	2.0	0.465	3.87
H885864		240	15.2	35.8	0.016	>10.0	4.61	1.8	6	3.1	90.7	0.14	0.24	0.8	0.065	0.30
H885865		500	2.0	424	<0.002	5.22	0.25	16.1	2	2.9	44.9	0.19	0.17	1.3	0.249	2.92
H885866		30	3.6	26.6	<0.002	2.18	0.21	1.1	2	1.0	62.5	<0.05	0.10	0.2	0.016	0.17
H885867		20	2.5	20.6	0.003	1.10	0.27	0.6	2	0.6	53.1	<0.05	0.07	<0.2	0.007	0.12
H885868		<10	13.3	128.0	0.002	>10.0	7.64	1.5	15	1.5	2.9	<0.05	8.30	0.3	0.012	0.59
H885869		40	2.7	14.3	0.002	1.92	0.21	0.8	2	0.7	42.7	<0.05	0.08	0.2	0.005	0.08
H885870		10	3.9	5.1	<0.002	2.21	0.42	0.5	3	0.4	48.9	<0.05	0.16	<0.2	<0.005	0.05
H885871		10	3.2	2.9	0.003	0.79	0.20	0.3	2	0.2	43.2	<0.05	0.06	<0.2	<0.005	0.11
H885872		10	2.4	6.2	<0.002	0.30	0.18	0.3	2	0.3	49.1	<0.05	0.06	<0.2	<0.005	0.06
H885873		10	2.3	7.9	<0.002	0.68	0.28	0.3	2	0.3	42.2	<0.05	0.13	<0.2	<0.005	0.15
H885874		20	22.6	24.6	<0.002	0.75	0.84	1.7	2	2.1	55.5	0.07	0.05	0.9	0.034	0.25
H885875		50	27.5	14.8	0.003	0.92	1.44	0.6	1	9.0	613	<0.05	<0.05	0.2	0.007	0.17
H885876		<10	11.5	7.5	0.002	0.34	0.25	0.8	2	2.2	83.6	<0.05	<0.05	<0.2	0.005	0.06

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Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885841		0.7	15	4.1	4.0	837	10.9	
H885842		0.6	5	0.2	1.1	16	0.5	
H885843		1.5	25	4.1	4.7	1040	14.9	
H885844		0.5	9	1.9	2.9	783	2.0	
H885845		1.8	6	1.4	2.2	9880	2.0	
H885846		2.4	7	1.3	1.9	77	4.7	
H885847		1.1	29	0.6	1.8	20	2.8	
H885848		0.6	6	38.2	4.7	12	5.5	4.93
H885849		0.6	8	0.7	1.3	175	1.9	
H885850		1.3	16	2.1	2.9	279	7.0	
H885851		0.5	9	0.7	2.1	274	2.7	
H885852		0.5	9	0.7	2.0	266	2.7	
H885853		1.4	25	710	1.9	59	12.3	
H885854		2.0	124	17.8	9.7	14	43.0	
H885855		0.5	100	10.3	12.6	13	18.5	
H885856		1.3	67	790	5.4	15	22.8	
H885857		0.5	4	0.6	1.0	14	<0.5	
H885858		2.2	167	156.0	18.3	32	32.0	
H885859		0.4	144	7.2	17.8	19	46.5	
H885860		0.6	125	5.4	10.6	19	30.8	
H885861		0.7	144	4.0	11.8	21	41.7	
H885862		0.5	141	3.0	14.9	20	22.5	
H885863		0.3	158	2.4	15.5	26	22.3	
H885864		0.5	20	63.8	7.4	37	7.0	
H885865		0.5	97	2.3	13.4	22	19.0	
H885866		0.5	12	1.7	2.9	9	3.3	
H885867		0.3	12	2.5	3.1	7	1.5	
H885868		0.1	16	37.6	0.8	10	2.3	
H885869		0.9	11	32.8	4.1	7	1.7	
H885870		0.2	11	9.3	3.4	8	0.8	
H885871		0.3	8	580	2.8	7	<0.5	
H885872		0.4	15	0.8	2.2	7	0.6	
H885873		1.0	16	5.8	2.0	11	0.7	
H885874		0.6	11	5.1	2.1	89	9.0	
H885875		0.3	8	1.6	2.5	608	3.3	
H885876		0.2	12	2.0	2.9	98	2.1	

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Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE VA09100780

Project: RAU

P.O. No.: Batch 50

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09100780

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885913		5.76	0.04	1.57	0.86	297	210	0.38	49.2	28.5	12.65	17.75	7.4	16	0.80	184.0
H885914		5.52	0.04	0.17	4.63	76	350	1.00	7.04	13.45	0.06	65.5	16.1	155	9.93	8.4
H885915		3.34	0.01	0.12	0.28	46	20	0.09	9.77	19.05	0.09	9.27	1.4	14	2.22	12.7
H885916		3.68	0.01	0.07	0.47	18	30	0.17	0.65	19.05	0.18	10.10	1.4	11	3.32	6.2
H885917		3.86	0.01	0.03	0.11	14	20	0.08	0.13	18.60	0.07	1.33	1.0	1	0.18	2.4
H885918		1.38	0.01	4.13	3.01	89.6	10	0.74	12.65	7.93	12.20	4.05	3.1	43	0.22	65.9
H885919		2.00	0.09	>100	0.63	1155	10	0.16	415	7.23	296	3.22	3.4	2	0.31	1135
H885920		2.28	0.03	4.68	2.93	1550	10	0.70	33.5	6.80	21.1	9.11	7.8	65	2.88	185.0
H885921		3.62	0.02	0.28	0.85	17	90	0.39	5.34	18.50	0.22	10.85	2.6	12	2.33	5.4
H885922		5.28	<0.01	0.09	0.84	9	70	0.34	3.23	17.80	0.13	9.42	2.3	11	3.51	7.4
H885923		5.60	<0.01	0.14	0.75	7	90	0.31	3.30	17.75	0.12	9.47	2.3	8	3.12	3.6
H885924		4.96	0.05	0.26	2.39	31	340	0.53	11.00	16.00	0.07	14.15	7.0	41	10.70	6.8
H885925		4.94	0.34	0.70	8.47	261	290	2.20	59.6	5.54	0.08	13.50	26.6	200	24.9	21.3
H885926		0.20	1.42	1.65	0.14	>10000	30	<0.05	336	11.40	0.76	52.4	1.8	5	0.59	17.7
H885927		5.26	0.27	0.36	5.68	224	100	1.27	34.7	11.45	0.07	16.00	21.4	105	13.85	14.8
H885928		5.40	0.17	0.23	2.69	173	100	0.47	23.8	14.00	0.06	16.70	9.9	50	10.40	13.9
H885929		2.62	0.20	0.25	3.33	188	60	0.53	27.1	13.05	0.04	22.4	12.8	58	11.20	17.0
H885930		2.92	0.24	0.12	0.25	329	70	0.09	57.9	15.65	0.21	5.87	3.9	5	1.34	12.3
H885931		0.74	0.10	0.26	4.43	107	110	0.92	10.90	11.35	0.05	8.93	13.8	83	20.3	44.6
H885932		1.40	0.10	0.13	1.99	27	260	0.45	7.59	16.75	0.06	19.10	7.7	39	7.77	11.1
H885933		0.90	0.09	0.71	0.19	1250	330	0.15	27.0	22.2	1.38	7.89	3.0	5	0.21	4.1
H885934		2.18	0.07	0.71	0.13	609	160	0.13	20.2	21.5	0.34	5.14	1.4	4	0.16	2.5
H885935		0.20	0.49	0.86	0.84	6140	90	0.30	104.0	12.50	0.15	31.2	6.7	13	1.84	35.6
H885936		1.74	0.07	0.63	0.11	1460	200	0.15	46.1	23.3	0.83	6.58	2.0	1	0.09	3.1
H885937		1.88	0.07	0.14	0.18	837	150	0.15	14.80	20.4	0.34	6.19	1.2	4	0.25	1.7
H885938		3.54	0.03	0.16	0.18	150	80	0.15	8.38	19.20	0.38	5.83	1.2	4	0.24	1.4
H885939		3.54	0.02	0.11	0.12	109	180	0.11	2.96	19.10	0.48	5.84	1.2	3	0.10	1.8
H885940		0.18	0.05	0.42	0.18	421	590	0.09	10.15	27.9	1.78	10.30	1.7	2	0.06	2.2
H885941		0.94	0.14	1.24	0.49	1980	1490	0.18	183.0	16.95	1.73	11.35	5.0	10	0.07	5.9
H885942		4.00	<0.01	0.02	0.09	5	20	0.08	1.17	18.50	0.07	1.93	1.2	2	0.17	2.1
H885943		1.52	0.02	0.18	0.06	339	600	0.05	834	18.00	0.67	9.69	2.5	1	0.19	4.1
H885944		5.76	0.02	0.35	0.12	155	200	0.07	50.4	17.65	1.77	8.43	1.6	1	0.26	11.7
H885945		4.42	0.05	0.62	0.19	206	570	0.11	173.5	17.15	2.86	7.99	2.9	2	0.44	17.3
H885946		5.84	0.01	0.25	0.12	90	310	0.09	18.15	17.20	1.04	6.95	1.2	1	0.48	28.8
H885947		5.04	0.01	0.25	0.12	92	220	0.06	17.95	17.10	0.71	7.77	1.8	1	0.44	33.3
H885948		5.88	0.01	0.23	0.18	89	290	0.13	38.2	17.70	0.94	27.1	2.0	2	0.46	15.2

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 3-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100780

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885913		6.34	2.79	0.12	0.5	0.01	0.106	0.38	13.6	1.2	1.30	2930	0.46	0.02	3.6	13.4
H885914		5.03	13.60	0.19	1.5	<0.01	0.019	2.42	32.3	23.6	8.39	819	0.46	0.05	23.3	51.6
H885915		2.61	1.93	0.11	0.1	<0.01	0.038	0.18	4.2	4.5	12.25	1800	0.19	0.01	1.4	3.2
H885916		2.12	3.33	0.12	0.2	<0.01	0.051	0.31	4.2	4.8	11.30	2590	0.21	0.02	1.7	2.2
H885917		0.42	0.26	0.07	<0.1	<0.01	0.006	0.04	0.6	1.1	12.60	192	0.11	0.01	0.4	3.5
H885918		11.95	18.60	0.11	1.9	0.07	5.26	0.04	2.6	3.4	5.82	16700	0.40	0.29	7.4	9.7
H885919		18.00	5.95	0.20	0.1	0.22	63.7	0.01	1.5	1.2	4.28	27100	0.22	0.06	0.7	15.1
H885920		17.15	18.70	0.18	1.5	0.03	1.290	0.35	3.5	4.8	5.16	5020	0.72	0.19	11.3	28.6
H885921		1.40	2.91	0.06	0.5	<0.01	0.042	0.41	6.4	7.2	11.25	975	0.27	<0.01	4.6	4.6
H885922		2.09	3.97	0.06	0.5	<0.01	0.043	0.43	4.2	12.8	11.30	1880	0.33	0.03	3.6	5.9
H885923		1.15	2.76	0.06	0.4	<0.01	0.029	0.46	4.9	6.6	11.35	1180	0.24	0.02	4.9	5.9
H885924		2.09	8.56	0.08	1.1	<0.01	0.017	1.57	7.4	17.1	10.45	795	0.55	0.03	17.1	23.9
H885925		10.60	31.2	0.16	4.5	0.01	0.022	3.18	7.4	47.6	4.60	178	2.01	0.16	58.5	116.5
H885926		15.60	0.97	0.23	0.1	0.01	0.084	0.06	34.1	1.8	6.63	2090	6.12	0.01	0.7	7.4
H885927		7.86	19.25	0.18	2.3	0.01	0.022	2.93	7.9	48.3	7.11	492	1.34	0.07	41.4	79.3
H885928		6.27	10.40	0.13	1.2	<0.01	0.022	1.67	8.8	18.7	9.12	652	0.65	0.04	18.0	37.9
H885929		7.25	12.25	0.15	1.6	0.01	0.017	1.90	12.1	22.9	8.37	568	0.75	0.05	24.9	49.1
H885930		7.91	1.29	0.13	0.1	0.01	0.071	0.11	2.2	3.1	8.97	2340	0.15	0.02	1.1	7.3
H885931		5.84	15.65	0.13	2.3	0.01	0.017	2.48	4.3	26.1	8.62	422	1.13	0.10	30.2	56.2
H885932		2.07	5.23	0.08	0.9	<0.01	0.011	1.19	10.5	14.1	10.35	677	0.46	0.04	16.3	29.9
H885933		11.00	1.27	0.15	0.1	0.01	0.126	0.05	3.7	0.8	1.23	3040	1.50	0.01	0.7	9.8
H885934		4.10	0.78	0.08	0.1	<0.01	0.077	0.03	3.2	1.4	6.72	1970	1.01	0.01	0.7	5.0
H885935		14.15	3.48	0.23	0.2	<0.01	0.066	0.40	17.7	4.6	6.73	2030	19.35	0.03	4.0	23.7
H885936		9.23	0.78	0.13	0.1	<0.01	0.047	0.01	3.7	0.7	2.44	2550	0.78	0.01	0.5	5.6
H885937		4.48	1.11	0.08	0.1	0.02	0.029	0.03	4.1	1.9	9.33	2000	0.65	0.02	0.8	3.9
H885938		1.86	1.01	0.06	0.1	0.01	0.018	0.03	4.1	2.5	11.30	1140	0.64	0.02	1.1	3.1
H885939		2.15	0.77	0.06	0.1	0.01	0.034	0.01	3.6	2.0	10.35	1890	0.27	0.02	0.6	3.1
H885940		6.28	1.41	0.12	0.2	0.01	0.120	0.02	4.7	0.5	1.50	6380	1.43	0.02	1.0	4.5
H885941		21.5	3.09	0.28	0.6	0.02	0.195	0.02	4.5	0.9	0.96	5320	2.92	0.05	2.5	14.0
H885942		0.52	0.33	0.07	<0.1	<0.01	0.005	0.03	0.9	1.3	12.40	202	0.23	0.01	0.5	3.1
H885943		8.18	0.66	0.13	0.1	0.01	0.074	0.01	3.6	1.4	7.70	4630	1.07	0.01	0.4	6.3
H885944		5.34	1.13	0.10	0.1	0.01	0.123	0.01	3.0	1.7	9.31	5320	0.38	0.02	0.6	3.6
H885945		6.66	1.50	0.10	0.1	0.01	0.100	0.04	3.0	1.6	8.13	5260	0.46	0.02	0.6	7.2
H885946		4.05	0.98	0.08	0.1	<0.01	0.072	0.03	2.9	1.9	9.12	3990	0.36	0.01	0.4	3.1
H885947		5.05	1.10	0.09	0.1	<0.01	0.084	0.02	3.0	2.0	9.39	4970	0.18	0.02	0.5	4.3
H885948		5.47	1.57	0.11	0.1	<0.01	0.092	0.05	14.7	2.0	8.14	5430	0.31	0.02	0.6	5.2

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885913		620	123.5	25.2	0.002	0.10	13.65	2.1	3	3.9	143.0	0.21	0.07	1.0	0.081	0.24
H885914		1590	3.7	106.0	<0.002	5.52	1.19	11.5	3	3.6	60.2	1.23	<0.05	4.4	0.532	0.91
H885915		80	4.5	25.6	<0.002	1.33	0.36	3.0	3	0.5	87.6	0.07	0.08	0.3	0.028	0.16
H885916		180	7.4	52.8	<0.002	0.49	0.33	4.4	3	0.9	113.5	0.08	<0.05	0.2	0.031	0.20
H885917		190	3.1	1.8	<0.002	0.02	0.11	0.3	1	<0.2	48.5	<0.05	<0.05	<0.2	0.005	<0.02
H885918		1230	1570	5.0	<0.002	0.96	5.79	2.7	1	18.5	49.8	0.44	<0.05	10.8	0.132	0.11
H885919		140	8080	0.8	<0.002	5.76	18.30	4.4	11	296	27.8	<0.05	0.22	0.4	0.013	0.92
H885920		850	872	67.0	<0.002	>10.0	13.30	2.9	5	35.7	45.0	0.57	0.53	0.8	0.205	0.57
H885921		90	8.8	21.0	<0.002	0.89	0.39	1.8	2	0.9	72.0	0.25	0.13	0.7	0.078	0.22
H885922		80	4.7	48.1	<0.002	0.94	0.28	4.4	2	1.0	99.8	0.22	0.05	2.2	0.056	0.27
H885923		120	4.8	32.2	<0.002	0.56	0.34	1.8	2	0.9	84.7	0.28	<0.05	0.8	0.074	0.23
H885924		520	3.7	64.9	<0.002	2.22	0.97	4.5	2	2.0	63.3	0.95	0.07	2.4	0.274	0.74
H885925		2110	7.8	109.5	0.002	>10.0	3.12	16.7	4	5.1	108.5	3.22	0.26	7.9	1.030	1.59
H885926		120	14.1	7.2	0.005	>10.0	20.8	0.5	5	1.1	90.9	<0.05	0.68	0.5	0.010	0.09
H885927		1340	4.5	111.0	<0.002	>10.0	3.49	11.7	3	3.5	66.6	2.25	0.14	5.0	0.641	1.21
H885928		700	4.1	83.8	<0.002	8.25	2.79	5.4	3	1.7	54.1	0.99	0.09	3.1	0.283	1.00
H885929		860	3.6	93.7	<0.002	9.69	3.53	6.4	4	2.2	52.6	1.38	0.09	3.8	0.371	1.21
H885930		140	6.6	11.1	<0.002	8.88	3.98	4.1	5	0.4	129.0	0.06	0.05	0.2	0.016	0.52
H885931		1060	3.0	200	0.002	7.28	3.04	7.8	3	3.3	39.9	1.68	0.08	4.3	0.468	3.50
H885932		550	2.3	39.5	<0.002	2.25	1.70	4.6	2	0.9	69.0	0.89	<0.05	2.0	0.245	0.73
H885933		110	20.2	6.0	<0.002	0.04	1.24	0.8	2	1.6	21.4	<0.05	0.11	0.2	0.012	0.07
H885934		70	23.2	4.0	<0.002	0.02	0.77	0.6	2	1.4	27.4	<0.05	0.08	0.2	0.009	0.04
H885935		240	13.1	31.2	0.016	>10.0	4.47	2.0	6	3.3	92.6	0.23	0.18	0.7	0.099	0.27
H885936		80	19.7	1.0	<0.002	0.08	1.53	0.8	3	0.5	21.8	<0.05	0.18	<0.2	0.009	0.05
H885937		50	4.4	4.3	<0.002	0.03	0.78	0.8	2	0.5	43.3	<0.05	0.08	0.2	0.019	0.05
H885938		50	4.6	3.8	<0.002	0.02	0.46	0.8	2	0.6	41.2	0.06	0.05	0.2	0.024	0.03
H885939		50	3.8	0.8	<0.002	0.01	0.39	0.7	2	0.4	39.9	<0.05	0.05	<0.2	0.013	0.02
H885940		110	24.7	1.4	<0.002	0.02	0.80	1.4	2	0.7	26.6	0.05	0.09	<0.2	0.020	0.04
H885941		380	52.1	1.4	<0.002	0.07	4.53	2.3	3	1.8	29.2	0.14	0.24	0.4	0.057	0.08
H885942		400	1.6	1.5	<0.002	0.02	0.12	0.4	1	<0.2	59.0	<0.05	<0.05	<0.2	0.005	<0.02
H885943		120	25.0	0.6	<0.002	0.07	11.85	0.9	2	0.3	79.5	<0.05	0.66	<0.2	0.006	0.02
H885944		80	65.7	1.1	<0.002	0.22	1.59	0.8	2	0.6	96.1	<0.05	0.09	<0.2	0.010	0.06
H885945		90	105.5	4.9	<0.002	0.37	3.29	1.0	2	1.4	90.5	<0.05	0.15	<0.2	0.013	0.08
H885946		60	42.4	4.4	<0.002	0.21	1.38	0.8	2	1.3	79.9	<0.05	<0.05	<0.2	0.008	0.08
H885947		70	32.7	2.8	<0.002	0.44	0.94	0.9	2	1.1	105.0	<0.05	0.05	<0.2	0.009	0.06
H885948		120	48.7	5.7	<0.002	0.31	1.53	1.0	2	2.0	106.0	<0.05	0.06	0.2	0.012	0.12

***** See Appendix Page for comments regarding this certificate *****

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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100780

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Zn-OG62 Zn % 0.001	As-OG62 As % 0.01
H885913		1.6	33	3.4	14.3	1820	21.1			
H885914		1.7	97	5.7	20.2	20	56.2			
H885915		0.3	12	0.9	13.1	15	5.2			
H885916		0.6	17	0.9	14.1	33	9.5			
H885917		0.8	2	0.2	1.0	16	0.7			
H885918		7.9	50	7.5	6.2	3010	69.5			
H885919		0.6	10	12.9	9.0	>10000	5.8	142	6.73	
H885920		2.3	58	9.0	7.1	4390	62.1			
H885921		0.6	15	3.5	4.9	50	18.8			
H885922		1.1	13	1.4	9.6	25	21.1			
H885923		0.5	10	1.4	6.7	24	18.7			
H885924		1.2	35	4.0	8.1	17	51.7			
H885925		5.1	147	13.7	8.2	22	166.5			
H885926		0.7	6	208	7.2	127	3.7			2.67
H885927		2.5	92	9.3	11.3	22	105.5			
H885928		1.5	43	3.5	9.1	18	56.1			
H885929		1.8	53	4.7	9.9	14	75.7			
H885930		0.2	12	0.7	9.7	36	4.7			
H885931		2.2	73	5.4	10.6	22	111.5			
H885932		0.6	33	2.0	9.7	17	42.9			
H885933		0.7	7	55.7	9.7	115	5.1			
H885934		0.4	6	14.8	5.1	79	6.1			
H885935		0.4	18	68.9	7.5	33	8.4			
H885936		0.6	6	24.7	7.4	97	3.9			
H885937		0.4	8	10.5	5.7	27	5.4			
H885938		0.3	7	7.8	5.2	29	6.0			
H885939		0.3	7	15.8	5.8	50	3.9			
H885940		0.8	8	57.9	12.7	297	7.4			
H885941		3.8	18	95.7	18.0	345	28.6			
H885942		0.7	2	0.7	1.2	14	1.1			
H885943		0.6	5	82.7	15.5	113	3.7			
H885944		0.5	5	114.0	13.0	247	5.6			
H885945		0.7	7	12.3	12.1	546	6.6			
H885946		0.5	6	6.5	9.3	236	3.2			
H885947		0.3	6	7.0	11.9	184	4.2			
H885948		0.6	9	17.8	14.3	241	6.5			

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100780

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

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 1-OCT-2009
Account: RCM

CERTIFICATE VA09100668

Project: RAU

P.O. No.: Batch 51

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 1-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100668

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885949		5.70	0.02	0.19	0.17	78	30	0.10	12.75	17.65	0.81	17.20	0.8	3	0.63	13.2
H885950		5.20	0.07	0.67	0.17	565	210	0.06	78.1	17.15	2.23	16.45	2.0	3	0.51	22.3
H885951		4.44	0.06	1.24	0.17	366	260	0.11	149.0	18.30	1.34	16.60	1.8	3	0.31	4.9
H885952		3.86	0.31	0.62	0.16	224	190	0.07	40.1	16.70	0.75	12.05	2.1	5	0.41	2.8
H885953		3.64	0.03	0.27	0.40	138	100	0.26	36.6	17.80	0.17	9.83	2.1	11	0.53	3.0
H885954		5.00	0.02	0.36	0.53	76	100	0.34	5.20	18.80	0.27	9.29	1.8	16	0.50	2.6
H885955		4.26	0.03	0.24	0.99	27	160	0.50	6.05	18.30	0.15	9.72	2.5	25	1.46	4.2
H885956		5.74	0.15	0.35	1.56	153	240	0.59	36.6	16.45	0.09	10.45	5.0	46	1.70	8.0
H885957		3.58	<0.01	0.08	0.10	<5	40	0.08	0.16	19.80	0.05	1.76	0.9	2	0.24	2.0
H885958		3.38	0.03	0.17	1.30	93	300	0.51	6.59	18.20	0.05	9.83	1.5	32	1.42	2.2
H885959		4.80	0.03	0.16	0.67	127	150	0.24	4.77	18.95	0.33	8.72	1.0	19	1.00	1.9
H885960		4.54	0.02	0.11	1.30	92	280	0.46	4.25	18.25	0.32	9.48	2.0	35	1.34	2.1
H885961		2.18	0.03	0.15	1.47	94	320	0.48	4.83	18.90	0.30	9.15	2.1	39	1.41	2.2
H885962		6.44	<0.01	0.05	1.42	10	150	0.39	0.09	30.5	0.05	27.2	7.0	45	1.00	5.0
H885963		5.96	0.03	0.09	0.78	17	170	0.31	4.61	19.25	0.04	11.70	2.9	24	0.96	2.0
H885964		5.22	0.04	0.14	0.59	63	150	0.21	3.58	19.30	0.07	10.10	2.1	16	0.68	1.4
H885965		5.50	0.05	0.20	0.60	340	160	0.22	5.59	19.15	0.45	10.85	2.9	19	0.63	4.2
H885966		0.28	5.57	0.37	0.12	>10000	30	<0.05	492	8.70	0.04	42.8	1.7	13	0.81	40.6
H885967		5.22	0.01	0.14	0.25	78	50	0.25	2.76	18.85	0.27	8.53	0.9	8	0.43	1.6
H885968		9.00	<0.01	0.15	0.20	30	140	0.28	0.59	20.4	2.54	3.38	0.7	6	0.25	1.7
H885969		7.64	0.01	0.25	0.65	21	390	0.39	0.58	19.35	0.94	7.48	1.9	18	0.50	6.5
H885970		5.44	<0.01	0.16	0.33	69	100	0.29	2.25	19.40	0.39	9.17	1.0	12	0.38	1.6
H885971		4.72	0.11	0.21	0.69	236	240	0.35	6.32	18.60	0.39	9.14	2.0	17	0.49	3.9
H885972		6.22	0.04	0.16	0.71	1470	200	0.31	2.17	18.55	0.45	8.67	1.3	18	0.74	4.6
H885973		5.90	0.11	0.17	0.89	1680	210	0.40	7.70	18.00	0.37	10.35	3.9	25	0.73	2.2
H885974		5.74	0.23	0.08	1.21	4620	260	0.40	12.20	25.3	0.08	19.30	6.9	35	0.88	2.9
H885975		3.68	0.01	0.07	0.08	28	10	0.08	0.15	19.70	0.08	1.68	0.8	1	0.18	1.2
H885976		6.36	0.01	0.05	0.51	47	110	0.19	0.38	31.4	0.06	10.85	1.6	15	0.28	2.0
H885977		3.96	0.01	0.07	0.73	56	160	0.25	0.12	30.7	0.09	15.65	3.0	24	0.49	3.3
H885978		5.46	<0.01	0.05	0.52	16	120	0.18	0.04	35.5	0.08	11.10	3.0	17	0.26	4.3
H885979		0.28	0.49	0.84	0.83	4950	130	0.28	98.3	12.60	0.15	38.1	5.7	15	2.16	33.0
H885980		8.38	<0.01	0.08	0.19	19	40	0.16	0.27	20.9	0.47	4.68	1.1	5	0.21	1.1
H885981		7.54	<0.01	0.09	0.05	12	30	0.13	0.16	20.8	0.44	1.60	0.5	1	0.25	0.6
H885982		5.04	<0.01	0.07	0.07	11	50	0.15	0.17	20.2	0.21	1.45	0.5	1	0.09	0.6
H885983		3.00	0.01	0.69	0.03	215	20	0.14	3.00	19.65	1.11	1.83	0.8	2	0.09	1.9
H885984		5.42	<0.01	0.15	0.02	37	30	0.11	0.21	20.2	0.88	2.76	0.5	1	0.09	0.6

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 1-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100668

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885949		4.89	1.33	0.12	0.1	<0.01	0.118	0.06	8.2	2.3	9.76	5370	0.10	0.02	0.3	2.9
H885950		6.74	1.36	0.15	0.1	<0.01	0.168	0.05	8.1	1.6	7.55	5180	0.35	0.02	0.3	4.6
H885951		8.14	1.27	0.15	0.1	<0.01	0.265	0.03	8.0	1.7	8.72	5680	0.30	0.02	0.4	3.8
H885952		6.94	1.28	0.12	0.1	<0.01	0.191	0.04	5.1	1.6	8.92	5720	0.26	0.02	0.4	5.4
H885953		4.05	2.61	0.11	0.3	<0.1	0.057	0.15	6.7	2.4	10.80	1590	0.15	0.02	2.3	5.0
H885954		3.01	3.08	0.08	0.4	<0.01	0.123	0.21	6.0	2.7	11.15	1960	0.14	0.02	2.6	5.5
H885955		1.97	5.20	0.08	0.7	<0.01	0.066	0.48	6.4	4.2	11.20	1420	0.14	0.03	5.1	8.6
H885956		4.31	8.37	0.10	1.2	<0.01	0.048	0.78	6.5	5.2	10.40	1540	0.51	0.02	8.0	14.6
H885957		0.40	0.31	0.06	<0.1	<0.01	0.007	0.04	1.0	1.1	12.70	180	0.07	0.01	0.3	1.5
H885958		2.47	7.66	0.06	0.9	<0.01	0.026	0.63	5.9	7.2	10.75	1490	0.19	0.03	6.6	4.1
H885959		4.38	4.29	0.08	0.5	<0.01	0.067	0.31	4.3	4.2	10.95	3100	0.12	0.03	3.3	2.3
H885960		3.57	8.25	0.07	1.1	<0.01	0.063	0.60	5.0	5.1	10.90	2410	0.23	0.03	6.2	4.5
H885961		3.61	9.20	0.09	1.2	<0.1	0.051	0.67	4.9	5.4	11.55	2230	0.24	0.03	7.2	5.0
H885962		1.72	3.75	0.09	0.7	<0.01	0.018	0.71	16.4	6.3	1.97	253	0.18	0.03	7.6	21.2
H885963		1.64	3.94	0.05	0.6	<0.1	0.031	0.40	7.3	4.5	12.05	1360	0.13	0.02	4.3	5.7
H885964		2.72	3.37	0.06	0.4	<0.01	0.050	0.29	6.2	3.4	11.45	2110	0.21	0.02	2.5	4.2
H885965		4.29	3.47	0.08	0.5	<0.1	0.094	0.28	6.5	3.0	10.90	2890	0.27	0.02	3.0	6.0
H885966		24.4	1.10	0.29	0.2	<0.1	0.076	0.08	27.3	1.3	4.96	1500	11.05	0.01	1.3	13.0
H885967		3.11	1.58	0.11	0.1	<0.1	0.280	0.07	4.7	2.3	11.10	3620	0.17	0.01	1.0	2.7
H885968		0.44	0.90	0.07	0.1	0.01	0.057	0.09	2.3	3.0	12.70	992	1.05	0.02	0.5	4.2
H885969		0.34	2.01	0.06	0.4	<0.01	0.021	0.30	4.7	3.7	12.45	406	0.84	0.03	2.7	11.5
H885970		2.37	1.95	0.06	0.2	<0.01	0.125	0.13	5.8	2.5	11.50	2370	0.15	0.02	1.6	2.7
H885971		3.75	4.14	0.08	0.4	<0.01	0.078	0.30	5.6	2.5	10.90	2150	0.19	0.02	2.3	6.0
H885972		4.02	4.21	0.09	0.5	<0.01	0.062	0.32	4.7	2.5	10.60	3000	0.10	0.02	2.7	4.0
H885973		3.54	4.88	0.06	0.7	<0.01	0.040	0.41	6.5	2.4	10.55	2120	0.22	0.02	4.3	10.0
H885974		3.06	5.36	0.08	0.9	<0.01	0.089	0.55	12.0	3.2	3.02	2440	0.31	0.02	5.2	15.4
H885975		0.41	0.27	0.07	<0.1	<0.01	0.005	0.03	0.9	0.9	12.50	195	0.07	0.01	0.3	1.5
H885976		1.04	1.54	0.06	0.3	<0.01	0.028	0.24	8.4	1.1	3.39	365	0.05	0.01	2.7	7.0
H885977		0.60	1.87	0.07	0.5	<0.1	0.012	0.33	13.7	2.3	3.72	282	0.16	0.02	3.9	8.8
H885978		0.40	1.33	0.05	0.4	<0.01	0.007	0.23	10.2	1.0	0.68	204	0.15	0.01	3.1	5.5
H885979		15.15	3.80	0.20	0.2	<0.01	0.081	0.42	21.9	3.7	6.93	2120	18.85	0.03	3.0	23.3
H885980		0.28	0.61	0.06	0.2	<0.01	0.008	0.07	2.9	2.3	11.80	304	0.16	0.02	1.0	2.6
H885981		0.09	0.25	0.09	<0.1	<0.01	<0.005	0.02	1.2	2.2	13.45	220	0.11	0.02	0.1	1.3
H885982		0.10	0.24	0.08	<0.1	<0.01	<0.005	0.02	1.0	1.7	13.10	197	0.15	0.03	0.1	0.4
H885983		0.89	0.18	<0.05	<0.1	<0.1	0.009	0.01	1.3	1.6	12.70	326	1.70	0.01	0.1	4.6
H885984		0.26	0.15	0.07	<0.1	<0.1	0.014	0.01	1.8	1.5	12.95	473	0.31	0.01	0.1	1.7

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Project: RAU

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CERTIFICATE OF ANALYSIS VA09100668

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885949		90	29.1	7.3	<0.002	0.26	1.02	0.9	2	2.1	128.5	<0.05	0.05	<0.2	0.011	0.08
H885950		100	98.3	5.2	<0.002	0.63	2.87	1.1	2	1.6	95.1	<0.05	0.26	<0.2	0.010	0.08
H885951		100	155.0	2.9	<0.002	0.29	3.59	0.8	2	1.9	115.0	<0.05	0.29	<0.2	0.011	0.05
H885952		120	43.6	3.5	<0.002	0.11	1.30	1.6	2	1.9	101.5	<0.05	0.21	<0.2	0.011	0.04
H885953		170	9.3	11.3	<0.002	0.09	0.94	1.0	2	2.4	68.6	0.14	0.12	0.3	0.049	0.06
H885954		250	12.9	14.3	<0.002	0.11	0.72	1.3	2	5.2	88.6	0.17	0.12	0.5	0.075	0.08
H885955		410	7.2	27.1	<0.002	0.04	0.66	2.5	2	4.1	89.0	0.33	0.11	0.7	0.148	0.16
H885956		460	10.1	48.0	<0.002	0.07	1.54	3.6	2	3.8	76.3	0.51	0.11	1.1	0.232	0.25
H885957		300	1.5	1.5	<0.002	0.01	0.05	0.2	2	<0.2	50.6	<0.05	<0.05	<0.2	0.005	<0.02
H885958		480	3.5	26.6	<0.002	0.13	0.66	2.7	2	2.7	91.7	0.41	0.05	1.8	0.188	0.15
H885959		250	8.2	12.8	<0.002	0.24	0.67	3.3	2	1.5	132.5	0.20	0.05	0.5	0.096	0.09
H885960		420	8.8	28.0	<0.002	0.23	0.57	2.8	2	3.4	114.0	0.38	0.07	1.1	0.170	0.19
H885961		440	6.7	31.1	<0.002	0.17	0.60	2.8	2	3.7	113.5	0.45	0.06	1.4	0.203	0.18
H885962		460	3.9	25.5	<0.002	0.71	0.21	4.4	2	0.4	675	0.47	0.10	1.5	0.227	0.11
H885963		240	3.5	19.5	<0.002	0.09	0.58	2.2	2	2.0	100.5	0.26	0.05	0.8	0.123	0.12
H885964		220	3.8	12.8	<0.002	0.20	0.47	2.1	2	1.1	106.0	0.15	0.12	0.5	0.069	0.08
H885965		190	14.4	14.3	<0.002	0.27	0.69	2.7	2	2.8	104.0	0.19	<0.05	0.8	0.083	0.09
H885966		70	7.8	8.0	0.003	>10.0	24.3	0.3	9	2.3	65.4	0.10	1.47	0.4	0.008	0.16
H885967		120	7.0	4.0	<0.002	0.16	0.26	1.3	3	3.2	103.0	0.06	<0.05	0.3	0.030	0.03
H885968		130	14.6	9.0	<0.002	0.02	0.37	0.7	2	2.1	74.8	<0.05	<0.05	0.2	0.013	0.07
H885969		470	24.3	17.1	<0.002	0.02	0.73	2.0	2	0.9	75.3	0.17	<0.05	0.5	0.081	0.15
H885970		110	26.3	6.7	<0.002	0.14	0.40	1.2	2	2.8	100.5	0.10	0.07	0.4	0.043	0.05
H885971		200	25.5	14.7	<0.002	0.28	0.68	1.7	2	3.6	96.4	0.14	0.11	0.8	0.067	0.08
H885972		210	11.7	15.5	<0.002	0.26	1.09	2.8	2	1.6	118.5	0.17	0.06	0.7	0.076	0.13
H885973		260	6.4	19.2	<0.002	0.28	1.25	2.0	2	1.7	82.4	0.27	0.08	1.2	0.124	0.17
H885974		360	2.7	20.8	0.003	0.34	2.21	3.3	2	1.9	198.5	0.31	0.06	1.2	0.150	0.28
H885975		250	1070	1.3	<0.002	0.02	0.07	0.3	2	<0.2	55.4	<0.05	<0.05	0.2	<0.005	<0.02
H885976		190	2.1	8.2	<0.002	0.91	0.42	1.6	2	0.5	165.0	0.16	0.05	0.6	0.074	0.04
H885977		250	2.9	11.9	<0.002	0.40	1.28	2.2	2	0.3	213	0.22	0.14	0.8	0.109	0.07
H885978		310	2.4	7.6	<0.002	0.30	0.88	1.8	2	0.4	258	0.19	0.09	0.6	0.084	0.06
H885979		240	14.7	32.0	0.019	>10.0	4.52	1.9	6	3.3	94.2	0.20	0.19	0.8	0.084	0.27
H885980		180	7.9	3.3	<0.002	0.14	0.16	0.6	2	0.2	121.0	0.06	<0.05	0.2	0.027	0.03
H885981		50	6.0	2.8	<0.002	0.01	0.12	0.2	2	<0.2	74.3	<0.05	<0.05	<0.2	<0.005	0.03
H885982		10	4.8	0.8	<0.002	0.01	0.10	0.2	2	<0.2	82.3	<0.05	<0.05	<0.2	<0.005	<0.02
H885983		60	63.9	1.3	<0.002	<0.01	1.08	0.3	2	0.2	66.5	<0.05	<0.05	<0.2	<0.005	0.02
H885984		40	14.0	0.5	<0.002	0.01	0.16	0.2	2	0.2	82.6	<0.05	<0.05	<0.2	<0.005	<0.02

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

Project: RAU

Finalized Date: 1-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100668

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885949		0.5	7	21.7	12.8	194	4.4	
H885950		0.7	6	45.9	10.7	402	4.9	
H885951		0.5	5	42.2	10.0	360	5.4	
H885952		0.4	7	45.8	12.1	136	5.1	
H885953		0.6	14	2.6	6.5	37	14.3	
H885954		0.5	17	3.6	6.1	51	13.4	
H885955		0.7	34	5.0	6.1	26	26.2	
H885956		1.5	58	6.4	7.6	22	45.5	
H885957		0.7	1	0.1	1.0	13	0.5	
H885958		1.1	36	4.6	6.4	13	34.4	
H885959		0.7	22	2.9	7.7	67	19.4	
H885960		1.2	34	5.8	7.7	98	39.6	
H885961		1.3	39	6.7	7.8	100	43.3	
H885962		0.6	39	0.3	12.4	22	26.2	
H885963		0.6	29	3.1	6.4	15	22.1	
H885964		0.4	24	2.4	6.9	20	15.5	
H885965		0.6	22	4.5	7.8	123	17.2	
H885966		0.6	8	37.9	4.9	10	5.5	3.58
H885967		0.3	13	3.9	6.2	66	5.7	
H885968		1.4	23	0.7	2.3	422	3.6	
H885969		3.8	43	1.1	4.5	234	14.9	
H885970		0.3	12	1.7	6.4	88	8.7	
H885971		0.5	18	2.7	7.1	128	16.1	
H885972		0.6	20	2.7	6.7	128	18.1	
H885973		0.7	29	3.9	6.4	134	26.5	
H885974		1.5	37	5.0	11.3	31	33.5	
H885975		1.0	1	0.1	1.0	13	0.5	
H885976		0.2	12	0.6	7.6	5	10.0	
H885977		1.3	26	0.3	9.2	11	21.1	
H885978		1.8	22	0.2	9.2	5	14.9	
H885979		0.4	18	62.9	7.7	33	8.3	
H885980		0.8	9	0.5	2.5	101	4.3	
H885981		0.5	4	0.3	0.9	124	1.0	
H885982		0.3	2	0.3	0.7	82	0.5	
H885983		0.8	3	8.2	1.0	505	1.2	
H885984		0.4	4	0.8	1.3	236	0.6	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 1-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100668

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE VA09100667

Project: RAU

P.O. No.: Batch 56

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100667

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885229		13.48	1.86	0.13	0.03	>10000	20	<0.05	205	7.40	0.04	5.27	0.5	3	0.10	3.3
H885230		14.38	3.53	0.17	0.07	>10000	20	<0.05	432	10.30	0.05	9.94	1.0	1	0.16	5.4
H885231		3.34	0.02	0.01	0.06	60	10	<0.05	2.27	19.45	0.04	1.39	0.9	<1	0.11	1.7
H885232		8.16	1.83	0.08	1.50	8210	150	0.48	113.0	7.74	1.47	26.5	21.0	9	2.26	10.4
H885233		9.94	0.03	0.01	8.34	870	1520	2.54	1.36	2.56	0.65	128.5	10.1	63	35.0	12.1
H885234		6.36	3.68	0.84	0.49	1000	50	0.19	241	14.70	0.15	6.08	10.7	3	1.87	12.8
H885235		9.40	1.71	0.71	0.47	1110	50	0.20	134.5	14.90	0.09	4.73	3.1	3	1.04	3.5
H885236		7.28	8.19	0.14	2.58	1390	60	0.85	173.0	7.46	0.18	40.4	11.2	13	3.38	10.5
H885237		9.90	3.92	1.44	0.42	>10000	60	0.13	84.4	15.65	0.76	5.31	2.1	4	0.82	4.0
H885238		0.28	1.40	1.75	0.11	>10000	30	<0.05	360	12.05	0.86	59.5	1.7	6	0.68	16.1
H885239		9.92	0.53	0.18	0.35	>10000	70	0.17	13.85	17.40	0.06	5.93	0.9	3	0.42	1.6
H885240		11.46	0.11	0.93	0.19	7160	30	0.08	25.3	16.15	2.69	7.18	0.9	1	0.39	2.4
H885241		4.28	0.92	0.68	0.14	>10000	20	<0.05	72.0	14.25	0.83	7.70	1.1	2	0.58	3.5
H885242		12.22	0.67	0.15	0.08	9590	10	<0.05	46.4	14.30	0.09	9.38	0.8	1	0.46	2.9
H885243		12.48	0.22	0.76	0.26	7270	50	0.06	133.5	11.40	0.07	9.30	0.9	1	1.40	5.1
H885244		6.40	0.23	0.65	0.15	5820	20	<0.05	142.0	11.75	0.10	9.23	0.9	1	1.14	6.4
H885245		10.18	0.91	0.12	2.31	7120	150	0.44	44.3	8.59	0.05	50.8	3.7	10	7.51	5.9
H885246		4.84	0.75	0.19	0.20	9480	10	0.06	121.5	9.19	0.08	16.85	1.2	1	1.67	6.9
H885247		1.28	0.01	<0.01	7.19	1220	2480	1.04	3.35	0.37	<0.02	55.5	1.3	41	40.4	0.9
H885248		1.46	0.03	<0.01	9.36	686	2450	2.06	4.09	0.23	<0.02	59.3	7.8	223	8.16	1.5
H885249		0.28	1.56	1.89	0.12	>10000	30	<0.05	357	12.70	0.82	60.9	1.7	7	0.69	16.3
H885250		0.64	4.49	0.38	1.73	>10000	130	0.37	283	1.40	0.08	36.1	3.4	16	3.19	20.3
H885251		2.74	0.69	0.10	0.14	>10000	20	0.05	231	13.45	0.09	27.8	1.0	1	0.59	2.8
H885252		3.84	9.45	0.18	0.85	>10000	50	<0.05	261	4.59	0.05	8.83	1.3	6	3.70	5.1
H885253		2.60	4.42	0.14	0.27	>10000	50	<0.05	515	0.99	<0.02	12.25	0.9	1	2.63	6.8
H885254		2.68	12.60	1.01	1.60	>10000	480	0.26	995	1.04	0.16	30.6	2.2	28	1.78	11.6
H885255		4.24	10.05	0.71	1.14	>10000	300	0.28	855	1.51	0.28	21.2	1.2	16	1.29	6.6
H885256		4.22	11.05	0.88	0.49	>10000	150	0.09	531	1.64	1.07	16.00	1.1	7	2.78	7.0
H885257		4.20	5.98	0.55	0.49	>10000	120	<0.05	191.5	1.31	3.33	41.6	1.4	5	7.54	15.8
H885258		0.28	0.50	0.93	0.82	5260	130	0.22	109.0	12.75	0.14	38.8	6.1	14	2.18	31.5
H885259		4.10	6.21	0.96	1.10	>10000	320	0.29	354	1.17	4.92	69.4	6.7	18	3.33	38.2
H885260		4.14	2.71	0.40	1.04	>10000	210	<0.05	565	0.96	4.06	22.1	4.1	6	0.89	24.7
H885261		4.10	0.83	0.33	0.87	>10000	90	0.17	303	0.57	4.30	35.9	4.4	7	1.26	26.8
H885262		5.20	0.61	0.47	1.69	>10000	240	0.36	216	0.76	3.81	144.0	5.7	27	3.35	37.9
H885263		2.74	0.62	4.12	0.51	>10000	60	0.16	95.9	3.32	3.50	31.9	4.2	1	0.26	11.5
H885264		3.98	0.01	0.01	0.08	238	20	0.05	1.00	19.45	0.06	1.78	0.9	1	0.18	2.0

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Project: RAU

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100667

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
H885229		13.55	0.22	0.14	<0.1	0.2	0.078	0.01	2.0	0.6	4.00	1180	0.18	0.01	0.2	0.9
H885230		23.0	0.53	0.27	<0.1	<0.1	0.153	0.02	4.4	0.8	5.56	1950	0.11	0.01	0.6	2.4
H885231		0.52	0.19	<0.05	<0.1	0.01	<0.005	0.02	0.7	1.0	12.55	203	0.69	0.01	0.3	1.3
H885232		24.5	5.93	0.28	0.2	<0.01	0.141	0.48	11.3	4.5	4.14	4550	0.96	0.02	6.1	43.0
H885233		11.25	26.3	0.20	1.0	0.04	0.121	4.67	69.8	43.5	2.22	1180	0.45	0.09	32.3	78.4
H885234		11.40	2.95	0.14	0.3	0.1	0.072	0.26	2.4	2.8	8.32	3550	0.19	0.01	2.5	14.8
H885235		9.11	3.35	0.10	0.2	<0.1	0.052	0.23	1.9	2.5	8.71	2780	0.11	0.01	1.8	9.8
H885236		17.40	10.70	0.22	0.4	0.1	0.042	1.13	19.8	10.4	4.54	1940	0.40	0.03	11.3	34.3
H885237		10.85	2.74	0.11	0.2	0.1	0.082	0.19	2.1	2.9	8.82	3930	0.14	0.01	1.4	6.6
H885238		16.70	0.95	0.21	<0.1	0.1	0.098	0.06	38.4	1.6	7.13	2210	5.95	0.01	0.5	7.2
H885239		5.79	2.10	0.07	0.2	<0.1	0.070	0.15	3.1	2.9	10.35	2280	0.10	0.01	1.3	2.3
H885240		7.71	1.30	0.09	<0.1	<0.1	0.134	0.07	3.1	2.0	9.51	3750	0.12	0.01	0.6	2.2
H885241		13.65	0.94	0.16	<0.1	<0.1	0.113	0.06	3.2	1.8	8.20	3310	0.10	0.01	0.7	2.7
H885242		12.65	0.69	0.15	<0.1	<0.1	0.084	0.04	4.3	1.6	8.33	3390	0.07	0.01	0.4	1.6
H885243		17.45	1.31	0.19	<0.1	<0.1	0.071	0.19	4.2	1.9	7.05	2830	0.15	0.01	1.8	2.3
H885244		19.00	0.95	0.23	<0.1	<0.1	0.057	0.11	4.3	1.8	6.97	2730	0.12	0.01	1.2	2.1
H885245		13.75	7.50	0.18	0.7	<0.1	0.050	1.73	27.4	19.0	6.73	1600	0.25	0.03	14.3	15.5
H885246		18.55	1.23	0.21	0.1	0.3	0.057	0.11	8.5	2.0	7.56	2060	0.26	0.01	1.2	3.4
H885247		3.96	28.2	0.12	5.1	0.04	0.021	6.17	29.1	35.3	6.12	755	0.40	0.12	77.7	9.8
H885248		2.32	31.9	0.09	6.6	0.02	0.116	5.54	35.0	66.7	1.25	70	1.57	0.09	61.3	28.1
H885249		17.45	1.01	0.23	<0.1	0.1	0.090	0.07	39.6	1.7	7.37	2370	6.10	0.01	0.6	7.4
H885250		42.0	5.48	0.44	0.3	<1	0.179	0.73	15.5	5.6	1.32	1060	0.41	0.02	1.2	10.7
H885251		15.60	0.97	0.19	<0.1	<1	0.150	0.06	14.3	2.0	8.04	3840	0.07	0.01	0.7	2.5
H885252		29.6	3.48	<0.05	0.3	<1	0.178	0.64	3.7	4.4	2.11	1360	0.06	0.02	3.5	4.3
H885253		40.3	1.87	0.19	<0.1	<1	0.250	0.27	6.1	1.2	0.09	559	0.27	0.02	0.5	1.7
H885254		37.4	6.99	0.11	0.2	<1	0.294	1.02	16.5	5.9	0.19	1120	0.40	0.03	1.5	6.4
H885255		30.6	5.75	0.05	0.4	<1	0.295	0.70	11.9	3.3	0.15	1020	0.33	0.02	1.5	2.4
H885256		36.6	3.02	0.32	0.1	<1	0.213	0.46	8.1	2.0	0.14	1180	0.41	0.02	0.8	1.8
H885257		43.2	3.00	0.17	<0.1	<1	0.232	0.35	19.8	2.1	0.07	1020	0.75	0.01	0.4	3.8
H885258		15.10	3.64	0.20	0.1	<1	0.073	0.40	22.5	3.9	7.06	2170	20.7	0.02	2.9	22.7
H885259		46.5	5.34	0.18	0.4	<1	0.315	0.51	35.7	2.3	0.12	2240	1.11	0.02	1.4	15.4
H885260		48.5	4.84	0.39	0.3	<1	0.200	0.38	9.7	1.6	0.11	2190	0.68	0.01	1.3	8.4
H885261		49.3	3.33	0.57	0.3	<1	0.270	0.27	14.9	0.9	0.08	4820	1.00	0.01	1.0	11.2
H885262		43.2	9.84	0.41	0.4	<1	0.569	0.64	76.8	4.4	0.30	2060	0.72	0.02	1.7	21.3
H885263		46.0	2.12	0.54	0.1	<1	0.794	0.15	14.8	0.9	1.61	2160	1.18	0.01	0.7	12.2
H885264		0.57	0.26	<0.05	<0.1	<0.01	<0.005	0.03	0.9	1.0	12.75	209	0.15	0.01	0.3	1.7

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

Project: RAU

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100667

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885229		70	2.8	0.5	<0.002	>10.0	8.74	<0.1	3	<0.2	53.0	<0.05	0.87	<0.2	<0.005	0.07
H885230		110	4.8	1.3	<0.002	>10.0	17.05	0.1	6	0.2	74.7	<0.05	1.95	<0.2	0.007	0.13
H885231		240	1.3	0.7	<0.002	0.12	0.14	0.1	3	<0.2	54.9	<0.05	<0.05	<0.2	<0.005	<0.02
H885232		1080	3.8	22.9	<0.002	>10.0	6.67	2.9	3	1.9	58.2	0.35	0.23	0.9	0.199	0.42
H885233		2100	1.4	294	0.003	1.07	3.20	18.0	2	14.2	28.0	1.79	<0.05	5.5	1.240	2.70
H885234		720	4.0	20.8	<0.002	10.00	2.17	1.2	2	4.5	106.5	0.14	0.11	0.2	0.081	0.20
H885235		310	4.6	17.5	<0.002	8.63	1.89	0.9	2	4.0	88.9	0.10	0.07	0.2	0.052	0.11
H885236		980	3.3	45.1	<0.002	>10.0	1.83	4.8	2	2.1	47.0	0.66	0.08	1.6	0.369	0.46
H885237		360	79.6	11.7	<0.002	9.10	4.67	0.6	2	7.7	104.0	0.08	0.22	0.3	0.030	0.15
H885238		110	14.6	6.6	0.002	>10.0	21.2	0.3	5	1.3	91.9	<0.05	0.94	0.5	0.009	0.09
H885239		220	3.3	8.2	<0.002	4.23	4.60	0.6	2	0.8	89.5	0.07	0.18	0.2	0.032	0.09
H885240		170	127.5	6.5	<0.002	5.49	2.33	0.6	2	3.8	113.5	<0.05	0.17	<0.2	0.011	0.06
H885241		100	41.6	6.3	<0.002	>10.0	4.67	0.2	3	1.8	108.5	<0.05	0.27	0.2	0.011	0.10
H885242		60	2.7	5.3	<0.002	>10.0	2.80	0.1	3	0.4	119.0	<0.05	0.16	<0.2	0.006	0.06
H885243		110	5.8	20.6	<0.002	>10.0	5.50	0.1	4	0.8	91.7	0.09	0.21	0.4	0.016	0.16
H885244		70	5.0	14.8	<0.002	>10.0	4.69	<0.1	4	0.6	83.7	0.05	0.20	0.2	0.011	0.14
H885245		420	2.0	125.0	<0.002	>10.0	3.11	2.1	5	2.3	65.7	0.84	0.32	4.1	0.148	0.60
H885246		80	2.9	19.2	<0.002	>10.0	5.05	0.3	6	0.5	62.6	0.07	0.57	0.3	0.015	0.17
H885247		690	1.3	660	<0.002	0.91	2.16	6.6	2	17.5	105.0	4.36	<0.05	12.7	0.609	3.21
H885248		1280	0.9	202	<0.002	0.36	3.97	18.2	3	10.2	47.5	3.52	<0.05	10.3	1.020	1.14
H885249		120	15.3	6.5	<0.002	>10.0	21.4	0.2	6	1.3	92.6	<0.05	1.01	0.5	0.009	0.11
H885250		790	6.4	90.4	<0.002	1.15	28.6	1.4	12	1.0	89.8	0.06	2.81	2.2	0.034	0.74
H885251		140	4.3	6.7	<0.002	4.96	13.25	0.4	4	0.5	111.0	<0.05	0.86	<0.2	0.012	0.10
H885252		170	3.7	54.6	<0.002	>10.0	40.2	<0.1	9	1.1	96.4	0.18	3.43	1.0	0.048	0.39
H885253		90	6.7	24.0	<0.002	0.42	67.3	<0.1	8	0.5	76.5	<0.05	8.09	0.5	0.011	0.16
H885254		220	19.6	42.1	<0.002	0.83	123.0	<0.1	11	2.0	243	0.07	9.30	1.1	0.040	0.47
H885255		280	17.7	30.7	<0.002	0.55	108.5	<0.1	18	1.9	174.5	0.11	9.40	0.8	0.034	0.40
H885256		250	15.2	30.9	<0.002	0.59	59.0	<0.1	14	1.1	262	<0.05	6.52	0.6	0.014	0.59
H885257		330	22.0	58.4	<0.002	0.56	53.0	<0.1	9	0.8	274	<0.05	2.40	1.1	0.009	1.61
H885258		240	14.4	29.2	0.014	>10.0	4.55	1.7	7	3.4	92.6	0.17	0.23	0.8	0.078	0.27
H885259		400	48.1	31.8	<0.002	0.51	61.3	<0.1	11	1.3	265	0.07	2.52	2.0	0.035	0.70
H885260		290	13.6	17.0	<0.002	0.13	49.7	<0.1	42	1.6	36.9	0.06	0.57	1.4	0.022	0.40
H885261		360	13.2	16.1	<0.002	0.35	49.9	0.9	11	0.6	74.5	0.05	0.43	1.4	0.019	0.36
H885262		600	50.9	43.3	<0.002	0.66	38.3	<0.1	14	1.3	398	0.09	1.23	4.7	0.036	0.59
H885263		570	296	8.7	<0.002	2.35	5.53	0.5	11	6.9	29.5	<0.05	0.27	0.3	0.012	0.09
H885264		220	1.4	1.3	<0.002	0.01	0.15	<0.1	2	<0.2	49.4	<0.05	<0.05	<0.2	<0.005	<0.02

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100667

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H885229		0.2	3	54.0	4.5	4	0.9
H885230		0.3	5	126.0	5.9	8	2.6
H885231		0.6	2	0.6	1.0	11	<0.5
H885232		3.1	39	18.2	14.0	360	16.0
H885233		1.9	147	9.7	19.8	192	44.4
H885234		0.3	18	5.5	7.6	33	12.7
H885235		0.3	16	5.5	6.1	23	12.6
H885236		0.6	50	19.1	7.7	41	22.5
H885237		0.3	14	153.0	6.0	170	11.1
H885238		0.7	6	202	7.1	131	3.4
H885239		0.3	11	27.8	5.9	16	10.6
H885240		0.3	8	44.4	7.6	471	5.0
H885241		0.2	6	421	7.0	152	3.6
H885242		0.1	5	95.5	7.0	14	2.3
H885243		0.2	5	80.9	7.3	16	9.2
H885244		0.2	5	94.6	7.4	15	3.4
H885245		0.7	24	37.3	13.5	11	28.3
H885246		0.3	6	98.0	10.2	13	7.1
H885247		2.7	69	17.9	15.9	30	200
H885248		8.6	225	16.4	13.2	11	247
H885249		1.0	7	219	7.2	137	3.9
H885250		1.0	37	191.0	19.1	21	15.3
H885251		0.1	7	232	12.2	16	4.0
H885252		0.4	12	178.0	6.9	12	13.0
H885253		0.2	13	49.1	6.6	21	5.4
H885254		1.7	29	40.1	9.3	137	16.0
H885255		1.5	20	91.4	6.5	43	18.0
H885256		2.7	11	142.5	5.6	49	7.6
H885257		5.1	11	102.5	13.7	301	5.1
H885258		0.5	18	68.3	7.6	31	9.9
H885259		6.3	24	88.6	25.4	914	19.8
H885260		5.5	15	9.8	18.9	524	12.5
H885261		4.1	19	11.7	20.8	724	14.6
H885262		4.2	30	21.6	24.4	845	18.4
H885263		1.3	11	2.7	20.5	870	7.2
H885264		0.9	3	0.2	1.0	14	0.5

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100667

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 2-OCT-2009
Account: RCM

CERTIFICATE VA09100666

Project: RAU

P.O. No.: Batch 54

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 2-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100666

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885157		10.32	<0.01	0.51	0.22	94	20	0.06	165.5	17.20	2.71	20.2	1.0	3	0.37	5.9
H885158		3.72	<0.01	0.01	0.10	<5	10	0.05	0.33	18.30	0.07	1.52	1.2	<1	0.12	2.2
H885159		11.50	0.01	0.31	0.21	96	20	0.13	282	18.55	1.21	9.30	1.5	6	0.36	9.5
H885160		6.52	0.01	0.50	0.65	32	180	0.35	10.90	18.15	2.20	8.36	2.5	12	0.55	5.2
H885161		8.60	<0.01	0.03	0.85	<5	310	0.28	0.53	32.6	0.16	14.80	2.9	26	1.04	3.9
H885162		11.32	0.04	0.02	0.43	7	130	0.20	0.50	10.85	<0.02	8.21	3.0	17	0.24	2.2
H885163		6.32	<0.01	0.02	0.73	<5	210	0.20	0.21	32.4	0.06	12.75	3.9	26	0.39	5.0
H885164		6.96	0.01	0.01	0.73	8	190	0.23	0.29	31.3	0.09	11.60	2.9	26	0.26	3.2
H885165		4.20	0.37	0.05	0.46	3620	120	0.15	5.53	18.05	0.06	9.07	1.5	7	0.29	2.3
H885166		0.24	0.50	0.85	0.81	4800	110	0.26	104.0	11.65	0.16	33.9	5.1	15	2.03	31.7
H885167		8.80	0.02	0.14	0.45	191	90	0.22	1.59	17.80	0.43	10.65	1.3	12	0.46	2.9
H885168		4.18	0.02	0.12	0.41	262	70	0.20	1.48	18.35	0.34	8.61	1.4	11	0.47	2.3
H885169		11.56	0.02	0.02	0.53	6	140	0.21	0.28	32.9	0.09	10.70	1.7	18	0.20	3.2
H885170		9.18	0.01	0.07	0.39	101	80	0.24	1.56	19.50	0.54	10.05	1.3	7	0.43	2.2
H885171		6.90	0.04	0.39	1.11	245	290	0.58	5.05	19.65	1.19	20.4	5.7	19	1.95	4.2
H885172		0.26	5.49	0.26	0.35	>10000	80	0.06	449	12.25	0.04	43.3	3.1	22	0.88	41.7
H885173		11.18	0.03	0.06	1.20	170	180	0.53	6.55	16.25	0.16	13.75	5.5	21	2.86	4.9
H885174		3.08	1.72	0.26	0.41	1530	60	0.06	208	10.25	0.05	9.18	1.3	11	2.81	8.6
H885175		2.98	4.53	0.75	3.00	1490	140	0.62	220	10.45	0.03	11.45	1.3	11	7.06	7.6
H885176		0.22	7.96	1.26	0.68	>10000	240	0.09	344	0.59	0.07	10.15	2.9	9	1.91	10.4
H885177		0.72	5.27	1.99	0.28	>10000	60	<0.05	357	10.40	0.05	17.65	2.1	3	2.92	11.4
H885178		3.90	7.32	0.27	1.19	>10000	60	0.23	241	9.00	0.05	6.63	1.3	7	2.35	5.4
H885179		3.48	0.01	<0.01	0.09	34	20	0.07	0.59	19.40	0.05	1.50	0.9	<1	0.16	1.6
H885180		0.36	0.63	0.10	0.05	>10000	10	<0.05	53.5	14.75	0.03	7.50	0.5	<1	0.97	2.0
H885181		2.00	6.12	0.22	0.03	>10000	10	<0.05	180.5	6.97	<0.02	3.14	0.5	<1	0.22	2.7
H885182		1.24	10.80	0.76	0.14	>10000	20	<0.05	415	1.64	<0.02	7.97	2.2	1	1.44	8.0
H885183		3.54	1.76	0.26	1.28	>10000	270	0.20	185.5	0.45	<0.02	11.35	1.0	9	5.35	18.2
H885184		3.20	5.64	2.40	0.66	>10000	200	0.20	338	1.96	<0.02	9.22	1.5	23	4.94	9.6
H885185		2.68	4.10	0.21	0.06	>10000	30	<0.05	298	4.05	0.11	2.77	0.7	17	1.34	7.1
H885186		8.78	9.66	0.24	0.51	>10000	90	0.09	180.0	9.92	0.05	4.68	1.0	4	1.44	3.9
H885187		13.10	4.23	0.13	0.18	>10000	30	<0.05	190.0	11.00	0.06	5.43	0.6	1	0.94	3.1
H885188		14.14	1.41	0.13	1.04	>10000	90	0.13	327	9.91	0.04	37.9	1.1	4	1.85	3.7
H885189		10.62	0.74	0.05	0.06	8270	10	<0.05	112.5	15.20	0.07	60.1	0.7	1	0.41	1.9
H885190		12.54	0.19	0.10	0.17	3560	20	<0.05	186.5	13.80	0.18	54.2	1.0	2	0.84	5.0
H885191		11.94	0.22	0.10	0.07	4790	10	<0.05	115.5	14.75	0.06	19.90	0.9	<1	0.66	2.6
H885192		11.04	0.53	0.27	0.08	5050	10	<0.05	356	14.75	0.06	80.5	0.7	1	0.51	2.8

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 2-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100666

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885157		4.47	1.92	0.14	0.1	0.1	0.124	0.03	9.3	1.8	9.80	5940	0.17	0.02	0.9	4.7
H885158		0.47	0.43	0.05	<0.1	<0.1	0.006	0.02	0.7	1.0	11.85	209	0.13	0.01	0.4	3.5
H885159		3.12	1.65	0.09	0.1	<0.01	0.084	0.05	4.3	2.2	10.90	3710	0.40	0.02	1.0	5.8
H885160		3.63	4.00	0.09	0.3	<0.1	0.395	0.29	4.5	2.6	9.76	5480	0.16	0.01	3.0	9.6
H885161		1.16	2.43	0.07	0.4	0.02	0.054	0.40	10.2	2.7	0.99	529	0.11	0.02	5.2	14.7
H885162		0.62	1.21	0.05	0.2	0.03	0.011	0.18	5.2	1.3	0.30	197	0.07	0.01	2.6	7.8
H885163		0.97	2.05	0.06	0.3	0.01	0.040	0.36	8.5	1.7	0.70	419	0.06	0.01	4.7	15.7
H885164		1.38	2.03	0.06	0.3	0.02	0.051	0.34	7.5	1.6	0.52	451	0.08	0.01	4.8	15.1
H885165		6.52	2.79	0.10	0.1	0.1	0.136	0.20	4.3	2.7	7.92	4090	0.08	0.01	1.3	8.0
H885166		14.15	3.54	0.18	0.1	0.1	0.071	0.39	19.4	4.7	6.68	1970	18.50	0.03	2.8	21.8
H885167		2.93	2.30	0.06	0.2	0.03	0.136	0.20	6.6	2.5	9.83	2980	0.10	0.01	1.9	7.1
H885168		3.03	2.16	0.07	0.2	0.02	0.156	0.18	5.0	2.5	10.10	3100	0.10	0.01	1.7	7.3
H885169		0.70	1.47	0.05	0.2	0.01	0.027	0.23	8.6	1.1	0.61	317	0.06	0.01	3.4	10.0
H885170		0.85	1.75	0.05	0.1	0.01	0.018	0.14	8.1	4.5	11.15	967	0.15	0.01	2.2	6.0
H885171		1.72	3.96	0.07	0.6	0.02	0.040	0.42	15.6	7.4	9.14	1400	0.34	0.01	5.8	22.6
H885172		23.6	1.71	0.37	0.2	<1	0.072	0.16	28.2	1.7	5.02	1560	11.35	0.01	2.4	18.2
H885173		1.14	3.82	0.05	0.6	0.01	0.009	0.42	10.5	11.0	9.86	680	0.31	0.02	6.5	21.0
H885174		17.35	2.18	0.24	0.1	0.4	0.048	0.23	4.2	2.7	5.23	1720	0.84	0.02	1.3	6.0
H885175		12.90	13.90	0.17	1.6	0.2	0.080	1.74	5.6	17.0	5.35	1960	0.13	0.04	24.0	8.1
H885176		35.3	4.69	0.39	0.4	<1	0.083	0.60	5.7	3.1	1.10	954	0.41	0.02	2.5	11.7
H885177		20.2	2.09	0.27	0.2	0.2	0.095	0.16	8.8	1.2	1.43	920	0.27	0.01	2.1	8.3
H885178		21.1	6.02	0.25	0.7	0.2	0.079	0.60	2.8	4.1	3.30	1680	0.18	0.02	9.3	6.4
H885179		0.42	0.27	<0.05	<0.1	0.01	<0.005	0.03	0.7	1.3	12.45	184	0.23	0.01	0.3	2.5
H885180		9.47	0.28	0.12	<0.1	0.1	0.077	0.02	3.0	0.5	1.60	904	0.16	0.01	0.2	1.6
H885181		22.5	0.26	<0.05	<0.1	0.1	0.121	0.01	1.2	0.9	2.15	931	0.06	0.01	0.3	1.9
H885182		34.9	1.47	0.13	<0.1	<1	0.134	0.11	3.2	1.3	3.45	2000	0.12	0.02	0.5	7.3
H885183		39.1	8.02	0.45	1.1	0.1	0.102	1.05	6.5	5.0	1.58	274	0.21	0.02	7.1	4.9
H885184		30.0	4.46	<0.05	0.5	0.1	0.128	1.06	4.9	4.6	2.22	677	4.44	0.04	2.3	5.8
H885185		27.1	1.24	0.53	0.1	<1	0.108	0.20	1.1	0.7	2.85	791	0.35	0.01	0.8	3.0
H885186		17.60	2.97	0.22	0.3	0.1	0.084	0.28	1.8	3.1	5.44	2120	0.12	0.01	3.2	4.7
H885187		17.25	1.21	0.23	<0.1	0.1	0.094	0.11	2.0	2.2	6.55	2210	0.07	0.01	0.9	2.1
H885188		19.80	4.85	0.26	0.7	<1	0.071	0.67	20.7	6.7	5.63	1820	0.12	0.02	10.2	5.3
H885189		9.97	0.73	0.17	<0.1	0.03	0.072	0.03	36.3	2.2	8.84	3160	0.06	0.01	0.3	2.5
H885190		12.95	1.26	0.21	<0.1	<0.1	0.057	0.06	32.5	2.4	8.20	2760	0.10	0.01	0.5	4.4
H885191		11.30	0.75	0.16	<0.1	<0.1	0.058	0.04	10.8	2.1	8.56	2740	0.07	0.01	0.4	3.0
H885192		11.75	0.96	0.20	<0.1	<0.1	0.062	0.04	49.5	2.1	8.25	2950	0.09	0.01	0.4	2.1

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Project: RAU

Finalized Date: 2-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100666

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885157		140	99.6	2.8	0.002	1.91	3.08	1.0	3	1.2	115.0	0.05	0.25	0.2	0.024	0.05
H885158		200	1.6	1.0	<0.002	0.02	0.13	0.4	2	<0.2	49.1	<0.05	<0.05	<0.2	0.014	<0.02
H885159		180	62.6	5.8	0.005	1.33	5.16	0.9	3	1.9	101.0	0.05	0.30	0.2	0.027	0.12
H885160		260	119.5	20.4	<0.002	1.47	0.90	2.2	3	6.1	87.9	0.16	0.05	0.6	0.082	0.11
H885161		280	7.3	16.4	<0.002	1.08	0.25	2.5	3	0.9	229	0.26	<0.05	0.8	0.149	0.10
H885162		150	1.2	6.5	<0.002	0.53	0.56	1.3	3	0.3	104.0	0.12	<0.05	0.4	0.080	0.03
H885163		270	1.3	12.5	<0.002	0.77	0.23	2.1	3	0.7	270	0.25	0.06	0.7	0.132	0.06
H885164		320	1.5	11.7	<0.002	1.31	0.32	2.0	3	0.6	234	0.26	<0.05	0.8	0.121	0.06
H885165		160	3.1	8.0	<0.002	2.82	1.44	1.7	2	0.7	134.0	0.07	<0.05	0.5	0.034	0.11
H885166		240	13.2	28.4	0.018	>10.0	4.61	1.2	6	3.1	87.1	0.19	0.22	0.8	0.083	0.28
H885167		210	20.0	14.3	<0.002	1.00	0.62	1.4	2	1.9	104.0	0.10	<0.05	0.4	0.050	0.10
H885168		200	18.9	13.3	<0.002	0.99	0.62	1.2	2	1.8	102.5	0.09	<0.05	0.4	0.045	0.09
H885169		190	1.8	7.8	<0.002	0.64	0.43	1.6	3	0.3	235	0.18	<0.05	0.6	0.091	0.04
H885170		140	15.4	8.2	<0.002	0.02	0.64	1.2	3	0.4	101.0	0.12	<0.05	0.4	0.059	0.07
H885171		390	21.7	29.8	<0.002	0.02	2.40	3.3	3	1.3	94.3	0.32	<0.05	1.1	0.168	0.27
H885172		140	6.5	10.8	0.003	>10.0	24.1	0.6	9	2.3	112.5	0.14	1.54	0.6	0.035	0.16
H885173		290	5.0	27.4	<0.002	0.04	0.76	3.1	3	0.8	81.1	0.37	<0.05	1.0	0.194	0.26
H885174		120	2.6	20.0	<0.002	>10.0	25.4	0.9	5	0.4	74.8	0.07	0.13	0.2	0.028	0.16
H885175		260	3.4	85.0	<0.002	9.24	34.4	1.7	4	3.1	78.3	1.53	0.10	2.4	0.166	0.56
H885176		340	4.0	37.5	<0.002	1.86	44.4	0.3	4	0.7	26.4	0.12	0.17	1.9	0.033	0.38
H885177		360	5.6	18.2	<0.002	9.73	90.1	0.2	6	0.3	69.5	0.11	0.46	1.0	0.022	0.18
H885178		160	4.0	28.5	<0.002	>10.0	40.1	0.5	3	1.4	58.8	0.52	0.37	1.6	0.083	0.19
H885179		270	1.7	1.4	<0.002	0.03	0.22	<0.1	2	<0.2	54.3	<0.05	<0.05	<0.2	<0.005	<0.02
H885180		20	1.8	3.5	<0.002	>10.0	10.80	<0.1	3	0.2	78.1	<0.05	0.30	<0.2	<0.005	0.02
H885181		60	3.3	1.3	<0.002	>10.0	32.8	<0.1	5	0.3	42.5	<0.05	0.87	<0.2	<0.005	<0.02
H885182		160	8.7	11.2	0.003	4.13	35.6	<0.1	11	0.9	74.6	0.06	1.56	0.4	0.007	0.15
H885183		400	3.7	97.9	<0.002	1.28	12.25	0.8	5	2.1	41.5	0.49	0.32	3.3	0.074	0.50
H885184		340	8.0	116.5	<0.002	3.98	34.5	<0.1	6	1.3	93.9	0.13	0.57	2.3	0.037	0.51
H885185		280	5.2	35.5	<0.002	>10.0	31.4	1.5	6	0.8	46.3	0.11	0.93	0.7	0.015	0.19
H885186		100	2.8	18.8	<0.002	>10.0	15.20	0.3	3	1.1	70.2	0.19	0.17	0.8	0.032	0.11
H885187		110	2.6	9.2	<0.002	>10.0	13.10	0.2	4	0.3	84.2	<0.05	0.35	<0.2	0.007	0.07
H885188		170	3.3	42.3	<0.002	>10.0	13.40	0.2	4	1.6	71.3	0.56	0.60	2.1	0.046	0.23
H885189		90	2.8	3.8	0.002	8.74	3.37	0.2	3	0.2	121.0	<0.05	0.17	0.4	<0.005	0.08
H885190		180	3.9	7.6	0.003	>10.0	3.80	0.1	3	0.3	105.5	<0.05	0.21	0.3	0.006	0.31
H885191		100	3.4	7.9	<0.002	>10.0	2.59	<0.1	3	0.2	112.5	<0.05	0.15	<0.2	0.005	0.06
H885192		110	3.4	6.2	0.007	>10.0	5.63	<0.1	3	0.5	109.5	<0.05	0.24	0.2	0.006	0.13

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Project: RAU

Finalized Date: 2-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100666

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885157		0.3	8	156.5	17.0	292	6.3	
H885158		0.7	4	0.3	1.0	14	<0.5	
H885159		0.4	9	431	10.7	257	6.9	
H885160		0.7	22	3.7	8.4	392	17.1	
H885161		0.7	31	1.1	9.6	24	21.3	
H885162		0.4	16	0.4	4.4	<2	11.3	
H885163		0.3	30	1.1	7.9	2	15.6	
H885164		0.2	28	1.2	7.3	7	14.5	
H885165		0.4	13	22.7	7.4	34	9.8	
H885166		0.4	17	58.9	6.9	31	8.0	
H885167		0.4	15	2.1	5.4	97	13.0	
H885168		0.3	14	1.9	5.2	90	11.6	
H885169		0.6	23	0.6	8.2	6	12.8	
H885170		0.4	11	3.3	7.5	114	10.1	
H885171		0.8	33	21.5	9.5	311	27.5	
H885172		0.6	14	35.4	6.8	7	10.0	2.80
H885173		0.8	33	5.5	7.8	80	30.1	
H885174		0.2	12	15.9	8.0	10	6.4	
H885175		1.3	36	25.9	9.6	10	58.8	
H885176		0.5	13	77.7	5.0	11	18.7	1.30
H885177		0.5	9	61.2	5.8	7	16.4	4.21
H885178		0.8	14	85.5	6.5	4	30.7	3.58
H885179		0.5	3	<0.1	1.0	13	0.5	
H885180		<0.1	4	43.6	3.9	6	1.2	4.39
H885181		0.1	3	218	3.4	4	1.1	13.75
H885182		0.2	8	850	4.2	20	6.6	6.69
H885183		0.7	28	145.5	3.1	12	36.6	3.18
H885184		0.5	18	302	5.1	15	19.3	5.57
H885185		0.2	5	329	3.2	11	4.7	11.55
H885186		0.8	9	44.4	5.2	6	13.5	5.13
H885187		0.2	6	83.2	6.7	7	3.5	4.48
H885188		0.8	8	198.0	6.7	5	26.5	4.04
H885189		0.5	5	196.0	10.1	12	1.6	
H885190		0.8	6	230	9.9	14	2.8	
H885191		0.2	5	104.5	8.3	10	1.9	
H885192		1.1	4	670	7.7	9	2.3	

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Project: RAU

Finalized Date: 2-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100666

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 3-OCT-2009
This copy reported on 21-OCT-2009
Account: RCM

CERTIFICATE VA09100665

Project: RAU

P.O. No.: Batch 52

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009. * CORRECTED COPY *

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: ATAC RESOURCES LTD.
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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885101		4.20	<0.01	0.03	1.61	90	220	0.42	1.77	27.9	0.13	14.60	4.8	17	1.32	5.4
H885102		1.96	<0.01	0.02	1.61	21	210	0.40	0.44	27.9	0.27	15.20	4.8	15	1.33	6.3
H885103		3.68	<0.01	0.01	8.23	7.7	970	1.10	0.24	4.18	0.04	40.8	33.3	171	7.54	52.6
H885104		4.04	<0.01	0.04	7.86	9.5	560	0.88	0.29	4.31	0.11	43.6	42.1	164	8.58	42.3
H885105		0.76	<0.01	2.58	1.40	93	340	0.34	4.08	20.5	10.20	15.70	10.3	12	2.55	12.2
H885106		4.04	<0.01	0.03	0.09	9	20	0.08	0.32	18.85	0.13	1.69	1.0	1	0.19	1.7
H885107		4.48	<0.01	0.36	0.69	43	230	0.33	1.80	17.70	0.99	7.88	2.4	6	0.44	2.5
H885108		3.12	0.02	0.35	0.71	82	170	0.17	0.71	31.3	0.43	11.30	2.2	17	0.54	3.9
H885109		1.72	0.01	0.81	5.52	523	1290	1.05	92.0	14.25	0.59	71.8	10.7	109	4.40	94.2
H885110		7.50	0.02	0.24	0.38	186	140	0.12	2.56	33.8	0.31	6.18	2.0	7	1.06	7.2
H885111		0.76	0.07	1.96	0.53	>10000	1970	<0.05	981	2.58	1.01	5.98	1.6	7	0.12	1.4
H885112		0.18	0.51	0.99	0.83	4680	100	0.26	97.0	12.40	0.15	35.2	5.5	15	1.90	33.0
H885113		2.54	0.02	1.09	0.08	272	450	0.36	789	22.5	0.21	52.2	1.4	<1	0.14	3.7
H885114		3.50	0.13	12.50	1.54	>10000	1860	0.70	690	1.91	3.83	44.3	13.0	40	1.33	40.7
H885115		6.14	1.47	5.71	0.56	>10000	1860	0.11	553	0.70	1.59	13.20	3.9	4	0.81	39.1
H885116		6.36	6.64	2.62	0.17	>10000	360	0.44	937	2.45	2.43	10.70	1.7	<1	0.12	13.9
H885117		2.58	9.69	2.67	0.53	>10000	1400	0.32	1170	0.98	3.14	16.20	3.5	4	0.63	13.7
H885118		2.80	2.27	1.74	0.47	>10000	430	0.31	533	0.34	0.56	6.18	1.3	7	0.82	7.5
H885119		3.54	4.66	1.64	0.67	>10000	900	0.80	636	0.57	1.64	11.25	1.7	7	0.54	10.5
H885120		1.30	31.9	9.92	0.30	6880	300	0.55	563	0.24	0.40	5.80	0.4	6	0.17	2.3
H885985		3.96	0.04	0.10	0.06	91	20	0.15	3.05	19.00	0.61	2.61	0.5	1	0.14	0.8
H885986		6.94	<0.01	0.26	0.10	118	800	0.15	1.39	18.30	3.91	7.83	0.6	3	0.10	1.2
H885987		2.42	0.03	1.85	0.07	780	60	0.21	5.64	16.80	11.05	5.66	1.0	1	0.16	3.1
H885988		5.44	<0.01	0.11	0.16	56	570	0.14	0.83	19.15	2.97	4.49	0.5	2	0.21	0.8
H885989		7.94	<0.01	0.15	0.13	46	140	0.13	0.74	19.00	1.13	3.75	0.5	2	0.26	1.1
H885990		7.98	<0.01	0.12	0.03	63	70	0.11	0.37	19.45	1.56	2.07	0.5	1	0.20	0.8
H885991		5.48	<0.01	0.13	0.05	88	110	0.23	0.31	19.20	2.89	2.97	0.5	1	0.13	0.9
H885992		1.06	<0.01	0.84	0.33	581	1290	0.54	0.82	19.75	22.6	4.51	3.6	2	0.42	5.0
H885993		0.38	0.01	1.15	0.09	1270	2340	0.83	1.97	6.21	39.1	2.07	1.1	2	0.08	10.3
H885994		0.58	<0.01	1.26	0.07	1240	2240	0.72	0.98	15.40	36.6	3.62	2.9	2	0.15	7.7
H885995		3.92	<0.01	0.01	0.10	7	220	0.12	0.07	19.35	0.11	1.76	1.0	1	0.14	1.4
H885996		1.14	<0.01	0.80	0.06	600	610	0.30	0.49	20.5	35.4	3.72	4.8	2	0.13	3.0
H885997		2.78	<0.01	0.40	0.27	158	140	0.28	0.63	19.80	7.85	3.85	1.2	3	0.18	1.6
H885998		7.82	<0.01	0.07	0.06	28	40	0.13	0.20	20.3	1.18	2.14	0.8	2	0.10	0.9
H885999		3.18	<0.01	0.04	1.03	20	160	0.34	0.75	31.8	0.10	14.15	1.9	11	1.27	2.3
H886000		0.20	1.60	1.80	0.10	>10000	30	0.06	343	12.05	0.84	59.7	1.7	9	0.64	18.1

Comments: **CORRECTED COPY FOR Au-AA26 ON ALL SAMPLES**

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885101		1.20	3.97	0.07	0.5	<0.01	0.066	0.68	7.0	6.2	1.39	607	0.54	0.02	2.3	11.4
H885102		1.09	4.02	0.08	0.5	<0.01	0.080	0.68	7.4	6.4	1.38	572	0.54	0.02	2.4	11.5
H885103		6.95	21.7	0.16	0.7	<0.01	0.061	2.70	21.7	34.2	3.11	499	0.31	1.21	19.7	111.5
H885104		6.76	21.3	0.16	0.6	<0.01	0.064	1.65	23.1	39.2	4.64	573	0.38	1.20	21.6	133.0
H885105		5.34	4.80	0.09	0.3	0.04	2.44	0.42	9.1	5.2	5.02	14250	1.27	0.02	2.2	23.9
H885106		0.46	0.39	0.17	<0.1	<0.01	0.025	0.03	0.8	1.3	12.75	309	0.28	0.01	0.3	2.1
H885107		1.16	2.28	0.10	0.2	<0.1	0.309	0.31	4.0	4.1	11.45	2830	1.20	0.02	1.0	6.8
H885108		0.81	1.75	0.09	0.3	<0.01	0.019	0.34	6.1	2.3	0.75	271	0.67	0.01	3.2	6.8
H885109		7.52	18.65	0.18	1.3	0.01	0.038	2.26	38.8	17.4	1.00	389	0.80	0.15	22.1	57.1
H885110		0.71	1.01	0.06	0.1	<0.01	0.010	0.13	4.6	1.6	0.30	197	0.38	0.01	1.2	7.9
H885111		48.6	0.24	<0.05	<0.1	0.03	0.027	0.14	3.6	0.2	0.25	5950	0.86	0.03	0.1	5.5
H885112		14.50	3.60	0.20	0.2	<0.01	0.062	0.40	20.0	4.2	6.79	2050	16.70	0.03	2.8	22.6
H885113		4.24	1.02	0.23	0.1	<0.1	0.054	0.02	26.7	1.8	6.73	6440	0.73	0.01	0.2	2.4
H885114		43.6	4.89	0.53	0.8	0.03	0.132	0.46	24.2	3.0	0.41	2920	8.14	0.03	2.2	60.0
H885115		40.7	2.82	0.55	0.3	0.03	0.120	0.09	6.2	1.5	0.59	1790	4.53	0.02	0.8	14.8
H885116		38.4	0.99	0.71	0.1	0.02	0.231	0.45	5.2	16.1	0.15	1420	2.46	0.04	0.4	6.9
H885117		40.1	3.54	0.57	0.7	0.01	0.143	0.16	8.8	2.5	0.48	999	1.94	0.02	1.4	10.7
H885118		18.80	3.21	0.29	0.3	0.01	0.057	0.08	2.9	1.5	0.56	810	1.40	0.03	0.6	5.2
H885119		32.1	4.70	0.44	0.9	0.03	0.091	0.10	5.3	1.5	1.91	978	1.93	0.03	1.8	7.5
H885120		8.08	2.19	0.27	0.8	0.04	0.020	0.02	3.1	2.4	2.81	271	0.91	0.03	1.8	1.4
H885985		0.25	0.41	0.21	<0.1	<0.01	0.007	0.02	1.5	2.6	12.95	455	0.22	0.01	0.2	1.2
H885986		0.86	0.67	0.11	0.1	0.01	0.022	0.01	4.5	2.4	11.65	1280	0.84	0.02	0.3	3.8
H885987		4.21	0.37	0.07	<0.1	0.03	0.027	0.01	2.6	2.1	11.30	1200	3.95	0.02	0.1	7.4
H885988		0.50	0.97	0.16	0.1	<0.01	0.030	0.01	2.3	3.0	12.65	870	0.55	0.03	0.2	2.1
H885989		0.37	0.85	0.26	0.1	<0.01	0.019	0.01	1.8	3.4	12.70	682	0.83	0.03	0.3	2.3
H885990		0.28	0.30	0.34	<0.1	<0.01	0.009	0.01	1.1	2.7	12.85	623	0.35	0.02	0.1	1.8
H885991		0.39	0.36	0.28	<0.1	<0.01	0.016	0.02	1.8	1.9	12.40	575	0.33	0.02	0.1	2.8
H885992		1.44	1.23	0.06	0.2	0.02	0.023	0.13	2.6	3.6	10.60	1520	3.17	0.05	1.1	11.6
H885993		3.09	0.71	0.07	<0.1	0.05	0.095	0.02	2.7	0.3	0.37	526	3.19	0.04	0.2	18.5
H885994		3.17	0.65	0.06	<0.1	0.04	0.059	0.02	2.6	2.2	7.50	1260	5.05	0.05	0.2	19.3
H885995		0.41	0.37	<0.05	<0.1	<0.01	<0.005	0.03	0.8	1.2	12.50	181	0.16	0.02	0.5	1.7
H885996		1.78	0.50	0.06	<0.1	0.03	0.020	0.02	2.4	1.6	10.90	2420	4.01	0.02	0.1	13.1
H885997		0.64	1.41	0.05	0.2	0.01	0.009	0.06	1.9	3.5	12.10	778	1.18	0.03	1.1	4.0
H885998		0.16	0.34	0.07	<0.1	<0.01	<0.005	0.01	1.1	3.6	12.60	401	0.22	0.02	0.1	1.4
H885999		0.61	2.79	0.06	0.4	<0.01	0.062	0.52	6.7	3.9	1.87	256	0.09	0.02	1.5	4.5
H886000		16.30	1.31	0.30	0.1	<0.01	0.093	0.06	38.3	1.9	6.84	2150	5.70	0.01	0.6	6.8

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CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885101		90	4.9	36.4	<0.002	0.40	0.34	3.0	2	2.3	425	0.14	<0.05	1.9	0.102	0.18
H885102		80	5.7	37.0	<0.002	0.33	0.34	3.2	2	2.3	417	0.15	<0.05	2.0	0.102	0.17
H885103		1270	2.7	75.8	<0.002	0.04	0.24	19.1	1	2.2	125.5	1.07	<0.05	3.6	0.832	0.29
H885104		1200	10.2	71.7	<0.002	0.02	0.84	18.9	1	2.9	165.0	1.15	<0.05	3.8	0.751	0.48
H885105		140	430	33.0	0.002	0.14	2.74	3.0	1	12.2	120.0	0.13	<0.05	1.1	0.063	1.18
H885106		290	5.7	1.8	<0.002	0.02	0.08	0.5	1	0.2	51.8	<0.05	<0.05	<0.2	<0.005	0.02
H885107		50	57.9	13.6	<0.002	0.26	0.30	1.4	2	3.2	110.5	0.07	<0.05	1.1	0.032	0.16
H885108		60	6.7	10.3	<0.002	0.05	0.41	2.2	2	0.3	253	0.18	<0.05	0.7	0.071	0.15
H885109		1140	7.7	118.0	<0.002	1.07	1.36	13.8	2	5.1	276	1.35	0.31	6.4	0.471	1.63
H885110		120	7.3	7.6	<0.002	0.01	0.34	1.1	2	0.3	158.0	0.07	<0.05	0.4	0.032	0.09
H885111		360	2.4	0.8	<0.002	0.09	4.07	0.3	<1	<0.2	2.0	<0.05	0.21	<0.2	0.018	0.12
H885112		240	15.0	33.3	0.014	>10.0	4.38	1.8	6	3.1	88.8	0.18	0.23	0.8	0.085	0.27
H885113		120	8.8	2.8	0.002	0.05	32.1	2.3	3	0.7	68.9	<0.05	1.30	<0.2	<0.005	0.09
H885114		610	26.1	18.6	0.002	0.09	23.9	6.2	5	1.2	16.6	0.11	1.57	1.5	0.045	0.44
H885115		270	72.6	9.0	0.002	0.14	17.20	2.9	10	1.2	25.6	0.10	1.10	0.7	0.016	0.23
H885116		190	203	38.9	0.002	1.06	42.4	2.4	8	2.5	448	<0.05	1.80	0.3	0.006	0.71
H885117		260	325	12.6	<0.002	0.22	90.2	2.6	11	2.5	152.5	0.09	3.38	1.0	0.029	0.75
H885118		90	64.4	7.7	<0.002	0.04	23.0	2.4	6	1.1	11.1	<0.05	0.79	0.4	0.014	0.19
H885119		170	62.6	7.6	<0.002	0.08	28.7	3.2	8	1.4	16.7	0.08	1.09	0.8	0.023	0.22
H885120		40	96.4	1.8	<0.002	0.06	22.5	2.1	10	1.4	19.8	0.16	0.57	0.4	0.040	0.10
H885985		190	13.0	2.7	<0.002	0.01	0.29	0.3	1	0.2	78.6	<0.05	<0.05	0.2	<0.005	0.02
H885986		430	27.8	1.0	<0.002	0.03	0.60	0.5	2	0.3	92.6	<0.05	0.05	0.3	0.006	0.02
H885987		190	29.3	0.7	<0.002	0.02	1.93	0.6	6	0.3	80.4	<0.05	0.10	0.3	<0.005	0.05
H885988		80	8.5	1.5	<0.002	0.03	0.19	0.5	2	0.4	81.3	<0.05	<0.05	<0.2	<0.005	0.03
H885989		410	15.9	1.0	<0.002	0.01	0.32	0.3	2	0.4	65.2	<0.05	0.05	0.3	0.006	0.03
H885990		30	7.4	0.8	<0.002	0.01	0.21	0.2	2	0.2	65.2	<0.05	<0.05	<0.2	<0.005	0.03
H885991		100	16.0	1.5	<0.002	0.01	1.19	0.3	1	0.2	88.5	<0.05	<0.05	<0.2	<0.005	0.05
H885992		630	60.8	8.9	<0.002	0.04	4.10	0.8	2	0.8	87.4	0.06	<0.05	0.5	0.019	0.51
H885993		180	169.5	1.4	<0.002	0.09	11.25	0.4	2	2.1	842	<0.05	<0.05	<0.2	<0.005	0.05
H885994		190	138.5	2.0	<0.002	0.14	7.36	0.6	2	1.4	818	<0.05	<0.05	<0.2	<0.005	0.50
H885995		250	1.6	1.3	<0.002	0.02	<0.05	0.4	2	<0.2	50.2	<0.05	<0.05	0.2	<0.005	<0.02
H885996		120	36.9	1.6	<0.002	0.02	1.52	0.5	2	0.4	76.5	<0.05	<0.05	<0.2	<0.005	0.89
H885997		1100	33.3	4.9	<0.002	0.01	0.66	0.6	2	0.4	63.6	0.06	<0.05	0.6	0.019	0.18
H885998		80	7.6	0.9	<0.002	0.01	0.13	0.3	2	<0.2	53.4	<0.05	<0.05	<0.2	<0.005	0.03
H885999		40	4.5	25.5	<0.002	0.04	0.25	2.1	2	2.0	309	0.10	<0.05	1.5	0.046	0.12
H886000		110	13.4	7.1	0.004	>10.0	22.4	0.5	5	1.2	87.8	<0.05	0.90	0.5	0.008	0.10

Comments: **CORRECTED COPY FOR Au-AA26 ON ALL SAMPLES**

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885101		0.5	15	1.6	5.5	18	16.4	
H885102		0.6	15	0.8	5.6	30	17.2	
H885103		0.3	120	1.0	19.0	108	14.8	
H885104		0.6	136	0.9	16.7	200	14.1	
H885105		1.4	15	2.2	7.5	1940	10.0	
H885106		0.6	3	0.3	1.0	27	0.5	
H885107		0.9	8	0.6	2.7	184	7.8	
H885108		0.5	11	0.7	5.8	48	9.5	
H885109		1.5	97	15.4	10.3	134	49.5	
H885110		0.2	7	2.0	5.7	90	4.9	
H885111		0.2	17	47.8	4.6	1550	0.6	1.05
H885112		0.5	17	60.4	7.2	32	7.9	
H885113		0.4	4	192.5	17.7	24	1.8	
H885114		3.9	35	347	25.1	1050	33.3	1.30
H885115		2.9	18	276	12.8	378	10.6	2.31
H885116		5.6	15	104.0	8.2	455	2.8	8.15
H885117		5.5	21	224	9.5	497	24.9	3.70
H885118		2.0	11	131.5	7.2	144	13.0	1.24
H885119		2.8	20	206	11.8	286	22.8	2.28
H885120		1.5	16	262	2.3	50	24.2	
H885985		1.0	5	2.1	1.2	151	1.7	
H885986		1.5	13	3.9	2.3	780	2.5	
H885987		2.2	12	8.6	3.5	2410	1.0	
H885988		0.6	10	0.9	2.2	428	1.5	
H885989		1.1	9	3.0	2.0	237	3.5	
H885990		0.4	5	0.8	1.0	215	0.5	
H885991		0.6	8	9.5	1.1	321	1.3	
H885992		1.7	16	35.6	2.7	1640	7.8	
H885993		1.0	11	72.8	2.9	1870	4.8	
H885994		1.1	13	60.1	2.7	2020	4.8	
H885995		1.1	4	0.5	1.0	17	0.9	
H885996		0.8	10	7.5	2.8	1620	1.5	
H885997		3.4	15	5.2	2.2	575	6.7	
H885998		0.7	6	0.5	1.1	137	1.5	
H885999		0.6	14	0.5	4.8	29	13.4	
H886000		0.9	7	197.5	7.1	128	3.5	2.76

Comments: **CORRECTED COPY FOR Au-AA26 ON ALL SAMPLES**

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100665

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE VA09100665

Project: RAU

P.O. No.: Batch 52

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885101		4.20	0.01	0.03	1.61	90	220	0.42	1.77	27.9	0.13	14.60	4.8	17	1.32	5.4
H885102		1.96	<0.01	0.02	1.61	21	210	0.40	0.44	27.9	0.27	15.20	4.8	15	1.33	6.3
H885103		3.68	<0.01	0.01	8.23	7.7	970	1.10	0.24	4.18	0.04	40.8	33.3	171	7.54	52.6
H885104		4.04	<0.01	0.04	7.86	9.5	560	0.88	0.29	4.31	0.11	43.6	42.1	164	8.58	42.3
H885105		0.76	0.01	2.58	1.40	93	340	0.34	4.08	20.5	10.20	15.70	10.3	12	2.55	12.2
H885106		4.04	<0.01	0.03	0.09	9	20	0.08	0.32	18.85	0.13	1.69	1.0	1	0.19	1.7
H885107		4.48	0.01	0.36	0.69	43	230	0.33	1.80	17.70	0.99	7.88	2.4	6	0.44	2.5
H885108		3.12	0.02	0.35	0.71	82	170	0.17	0.71	31.3	0.43	11.30	2.2	17	0.54	3.9
H885109		1.72	0.03	0.81	5.52	523	1290	1.05	92.0	14.25	0.59	71.8	10.7	109	4.40	94.2
H885110		7.50	0.03	0.24	0.38	186	140	0.12	2.56	33.8	0.31	6.18	2.0	7	1.06	7.2
H885111		0.76	0.07	1.96	0.53	>10000	1970	<0.05	981	2.58	1.01	5.98	1.6	7	0.12	1.4
H885112		0.18	0.56	0.99	0.83	4680	100	0.26	97.0	12.40	0.15	35.2	5.5	15	1.90	33.0
H885113		2.54	0.02	1.09	0.08	272	450	0.36	789	22.5	0.21	52.2	1.4	<1	0.14	3.7
H885114		3.50	0.12	12.50	1.54	>10000	1860	0.70	690	1.91	3.83	44.3	13.0	40	1.33	40.7
H885115		6.14	1.33	5.71	0.56	>10000	1860	0.11	553	0.70	1.59	13.20	3.9	4	0.81	39.1
H885116		6.36	5.74	2.62	0.17	>10000	360	0.44	937	2.45	2.43	10.70	1.7	<1	0.12	13.9
H885117		2.58	8.61	2.67	0.53	>10000	1400	0.32	1170	0.98	3.14	16.20	3.5	4	0.63	13.7
H885118		2.80	2.47	1.74	0.47	>10000	430	0.31	533	0.34	0.56	6.18	1.3	7	0.82	7.5
H885119		3.54	4.42	1.64	0.67	>10000	900	0.80	636	0.57	1.64	11.25	1.7	7	0.54	10.5
H885120		1.30	32.8	9.92	0.30	6880	300	0.55	563	0.24	0.40	5.80	0.4	6	0.17	2.3
H885985		3.96	0.07	0.10	0.06	91	20	0.15	3.05	19.00	0.61	2.61	0.5	1	0.14	0.8
H885986		6.94	0.01	0.26	0.10	118	800	0.15	1.39	18.30	3.91	7.83	0.6	3	0.10	1.2
H885987		2.42	0.04	1.85	0.07	780	60	0.21	5.64	16.80	11.05	5.66	1.0	1	0.16	3.1
H885988		5.44	0.01	0.11	0.16	56	570	0.14	0.83	19.15	2.97	4.49	0.5	2	0.21	0.8
H885989		7.94	0.01	0.15	0.13	46	140	0.13	0.74	19.00	1.13	3.75	0.5	2	0.26	1.1
H885990		7.98	<0.01	0.12	0.03	63	70	0.11	0.37	19.45	1.56	2.07	0.5	1	0.20	0.8
H885991		5.48	<0.01	0.13	0.05	88	110	0.23	0.31	19.20	2.89	2.97	0.5	1	0.13	0.9
H885992		1.06	0.01	0.84	0.33	581	1290	0.54	0.82	19.75	22.6	4.51	3.6	2	0.42	5.0
H885993		0.38	0.02	1.15	0.09	1270	2340	0.83	1.97	6.21	39.1	2.07	1.1	2	0.08	10.3
H885994		0.58	0.01	1.26	0.07	1240	2240	0.72	0.98	15.40	36.6	3.62	2.9	2	0.15	7.7
H885995		3.92	<0.01	0.01	0.10	7	220	0.12	0.07	19.35	0.11	1.76	1.0	1	0.14	1.4
H885996		1.14	0.01	0.80	0.06	600	610	0.30	0.49	20.5	35.4	3.72	4.8	2	0.13	3.0
H885997		2.78	<0.01	0.40	0.27	158	140	0.28	0.63	19.80	7.85	3.85	1.2	3	0.18	1.6
H885998		7.82	<0.01	0.07	0.06	28	40	0.13	0.20	20.3	1.18	2.14	0.8	2	0.10	0.9
H885999		3.18	0.01	0.04	1.03	20	160	0.34	0.75	31.8	0.10	14.15	1.9	11	1.27	2.3
H886000		0.20	1.97	1.80	0.10	>10000	30	0.06	343	12.05	0.84	59.7	1.7	9	0.64	18.1

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Project: RAU

Finalized Date: 3-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885101		1.20	3.97	0.07	0.5	<0.01	0.066	0.68	7.0	6.2	1.39	607	0.54	0.02	2.3	11.4
H885102		1.09	4.02	0.08	0.5	<0.01	0.080	0.68	7.4	6.4	1.38	572	0.54	0.02	2.4	11.5
H885103		6.95	21.7	0.16	0.7	<0.01	0.061	2.70	21.7	34.2	3.11	499	0.31	1.21	19.7	111.5
H885104		6.76	21.3	0.16	0.6	<0.01	0.064	1.65	23.1	39.2	4.64	573	0.38	1.20	21.6	133.0
H885105		5.34	4.80	0.09	0.3	0.04	2.44	0.42	9.1	5.2	5.02	14250	1.27	0.02	2.2	23.9
H885106		0.46	0.39	0.17	<0.1	<0.01	0.025	0.03	0.8	1.3	12.75	309	0.28	0.01	0.3	2.1
H885107		1.16	2.28	0.10	0.2	<0.1	0.309	0.31	4.0	4.1	11.45	2830	1.20	0.02	1.0	6.8
H885108		0.81	1.75	0.09	0.3	<0.01	0.019	0.34	6.1	2.3	0.75	271	0.67	0.01	3.2	6.8
H885109		7.52	18.65	0.18	1.3	0.01	0.038	2.26	38.8	17.4	1.00	389	0.80	0.15	22.1	57.1
H885110		0.71	1.01	0.06	0.1	<0.01	0.010	0.13	4.6	1.6	0.30	197	0.38	0.01	1.2	7.9
H885111		48.6	0.24	<0.05	<0.1	0.03	0.027	0.14	3.6	0.2	0.25	5950	0.86	0.03	0.1	5.5
H885112		14.50	3.60	0.20	0.2	<0.01	0.062	0.40	20.0	4.2	6.79	2050	16.70	0.03	2.8	22.6
H885113		4.24	1.02	0.23	0.1	<0.1	0.054	0.02	26.7	1.8	6.73	6440	0.73	0.01	0.2	2.4
H885114		43.6	4.89	0.53	0.8	0.03	0.132	0.46	24.2	3.0	0.41	2920	8.14	0.03	2.2	60.0
H885115		40.7	2.82	0.55	0.3	0.03	0.120	0.09	6.2	1.5	0.59	1790	4.53	0.02	0.8	14.8
H885116		38.4	0.99	0.71	0.1	0.02	0.231	0.45	5.2	16.1	0.15	1420	2.46	0.04	0.4	6.9
H885117		40.1	3.54	0.57	0.7	0.01	0.143	0.16	8.8	2.5	0.48	999	1.94	0.02	1.4	10.7
H885118		18.80	3.21	0.29	0.3	0.01	0.057	0.08	2.9	1.5	0.56	810	1.40	0.03	0.6	5.2
H885119		32.1	4.70	0.44	0.9	0.03	0.091	0.10	5.3	1.5	1.91	978	1.93	0.03	1.8	7.5
H885120		8.08	2.19	0.27	0.8	0.04	0.020	0.02	3.1	2.4	2.81	271	0.91	0.03	1.8	1.4
H885985		0.25	0.41	0.21	<0.1	<0.01	0.007	0.02	1.5	2.6	12.95	455	0.22	0.01	0.2	1.2
H885986		0.86	0.67	0.11	0.1	0.01	0.022	0.01	4.5	2.4	11.65	1280	0.84	0.02	0.3	3.8
H885987		4.21	0.37	0.07	<0.1	0.03	0.027	0.01	2.6	2.1	11.30	1200	3.95	0.02	0.1	7.4
H885988		0.50	0.97	0.16	0.1	<0.01	0.030	0.01	2.3	3.0	12.65	870	0.55	0.03	0.2	2.1
H885989		0.37	0.85	0.26	0.1	<0.01	0.019	0.01	1.8	3.4	12.70	682	0.83	0.03	0.3	2.3
H885990		0.28	0.30	0.34	<0.1	<0.01	0.009	0.01	1.1	2.7	12.85	623	0.35	0.02	0.1	1.8
H885991		0.39	0.36	0.28	<0.1	<0.01	0.016	0.02	1.8	1.9	12.40	575	0.33	0.02	0.1	2.8
H885992		1.44	1.23	0.06	0.2	0.02	0.023	0.13	2.6	3.6	10.60	1520	3.17	0.05	1.1	11.6
H885993		3.09	0.71	0.07	<0.1	0.05	0.095	0.02	2.7	0.3	0.37	526	3.19	0.04	0.2	18.5
H885994		3.17	0.65	0.06	<0.1	0.04	0.059	0.02	2.6	2.2	7.50	1260	5.05	0.05	0.2	19.3
H885995		0.41	0.37	<0.05	<0.1	<0.01	<0.005	0.03	0.8	1.2	12.50	181	0.16	0.02	0.5	1.7
H885996		1.78	0.50	0.06	<0.1	0.03	0.020	0.02	2.4	1.6	10.90	2420	4.01	0.02	0.1	13.1
H885997		0.64	1.41	0.05	0.2	0.01	0.009	0.06	1.9	3.5	12.10	778	1.18	0.03	1.1	4.0
H885998		0.16	0.34	0.07	<0.1	<0.01	<0.005	0.01	1.1	3.6	12.60	401	0.22	0.02	0.1	1.4
H885999		0.61	2.79	0.06	0.4	<0.01	0.062	0.52	6.7	3.9	1.87	256	0.09	0.02	1.5	4.5
H886000		16.30	1.31	0.30	0.1	<0.01	0.093	0.06	38.3	1.9	6.84	2150	5.70	0.01	0.6	6.8

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CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885101		90	4.9	36.4	<0.002	0.40	0.34	3.0	2	2.3	425	0.14	<0.05	1.9	0.102	0.18
H885102		80	5.7	37.0	<0.002	0.33	0.34	3.2	2	2.3	417	0.15	<0.05	2.0	0.102	0.17
H885103		1270	2.7	75.8	<0.002	0.04	0.24	19.1	1	2.2	125.5	1.07	<0.05	3.6	0.832	0.29
H885104		1200	10.2	71.7	<0.002	0.02	0.84	18.9	1	2.9	165.0	1.15	<0.05	3.8	0.751	0.48
H885105		140	430	33.0	0.002	0.14	2.74	3.0	1	12.2	120.0	0.13	<0.05	1.1	0.063	1.18
H885106		290	5.7	1.8	<0.002	0.02	0.08	0.5	1	0.2	51.8	<0.05	<0.05	<0.2	<0.005	0.02
H885107		50	57.9	13.6	<0.002	0.26	0.30	1.4	2	3.2	110.5	0.07	<0.05	1.1	0.032	0.16
H885108		60	6.7	10.3	<0.002	0.05	0.41	2.2	2	0.3	253	0.18	<0.05	0.7	0.071	0.15
H885109		1140	7.7	118.0	<0.002	1.07	1.36	13.8	2	5.1	276	1.35	0.31	6.4	0.471	1.63
H885110		120	7.3	7.6	<0.002	0.01	0.34	1.1	2	0.3	158.0	0.07	<0.05	0.4	0.032	0.09
H885111		360	2.4	0.8	<0.002	0.09	4.07	0.3	<1	<0.2	2.0	<0.05	0.21	<0.2	0.018	0.12
H885112		240	15.0	33.3	0.014	>10.0	4.38	1.8	6	3.1	88.8	0.18	0.23	0.8	0.085	0.27
H885113		120	8.8	2.8	0.002	0.05	32.1	2.3	3	0.7	68.9	<0.05	1.30	<0.2	<0.005	0.09
H885114		610	26.1	18.6	0.002	0.09	23.9	6.2	5	1.2	16.6	0.11	1.57	1.5	0.045	0.44
H885115		270	72.6	9.0	0.002	0.14	17.20	2.9	10	1.2	25.6	0.10	1.10	0.7	0.016	0.23
H885116		190	203	38.9	0.002	1.06	42.4	2.4	8	2.5	448	<0.05	1.80	0.3	0.006	0.71
H885117		260	325	12.6	<0.002	0.22	90.2	2.6	11	2.5	152.5	0.09	3.38	1.0	0.029	0.75
H885118		90	64.4	7.7	<0.002	0.04	23.0	2.4	6	1.1	11.1	<0.05	0.79	0.4	0.014	0.19
H885119		170	62.6	7.6	<0.002	0.08	28.7	3.2	8	1.4	16.7	0.08	1.09	0.8	0.023	0.22
H885120		40	96.4	1.8	<0.002	0.06	22.5	2.1	10	1.4	19.8	0.16	0.57	0.4	0.040	0.10
H885985		190	13.0	2.7	<0.002	0.01	0.29	0.3	1	0.2	78.6	<0.05	<0.05	0.2	<0.005	0.02
H885986		430	27.8	1.0	<0.002	0.03	0.60	0.5	2	0.3	92.6	<0.05	0.05	0.3	0.006	0.02
H885987		190	29.3	0.7	<0.002	0.02	1.93	0.6	6	0.3	80.4	<0.05	0.10	0.3	<0.005	0.05
H885988		80	8.5	1.5	<0.002	0.03	0.19	0.5	2	0.4	81.3	<0.05	<0.05	<0.2	<0.005	0.03
H885989		410	15.9	1.0	<0.002	0.01	0.32	0.3	2	0.4	65.2	<0.05	0.05	0.3	0.006	0.03
H885990		30	7.4	0.8	<0.002	0.01	0.21	0.2	2	0.2	65.2	<0.05	<0.05	<0.2	<0.005	0.03
H885991		100	16.0	1.5	<0.002	0.01	1.19	0.3	1	0.2	88.5	<0.05	<0.05	<0.2	<0.005	0.05
H885992		630	60.8	8.9	<0.002	0.04	4.10	0.8	2	0.8	87.4	0.06	<0.05	0.5	0.019	0.51
H885993		180	169.5	1.4	<0.002	0.09	11.25	0.4	2	2.1	842	<0.05	<0.05	<0.2	<0.005	0.05
H885994		190	138.5	2.0	<0.002	0.14	7.36	0.6	2	1.4	818	<0.05	<0.05	<0.2	<0.005	0.50
H885995		250	1.6	1.3	<0.002	0.02	<0.05	0.4	2	<0.2	50.2	<0.05	<0.05	0.2	<0.005	<0.02
H885996		120	36.9	1.6	<0.002	0.02	1.52	0.5	2	0.4	76.5	<0.05	<0.05	<0.2	<0.005	0.89
H885997		1100	33.3	4.9	<0.002	0.01	0.66	0.6	2	0.4	63.6	0.06	<0.05	0.6	0.019	0.18
H885998		80	7.6	0.9	<0.002	0.01	0.13	0.3	2	<0.2	53.4	<0.05	<0.05	<0.2	<0.005	0.03
H885999		40	4.5	25.5	<0.002	0.04	0.25	2.1	2	2.0	309	0.10	<0.05	1.5	0.046	0.12
H886000		110	13.4	7.1	0.004	>10.0	22.4	0.5	5	1.2	87.8	<0.05	0.90	0.5	0.008	0.10

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100665

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885101		0.5	15	1.6	5.5	18	16.4	
H885102		0.6	15	0.8	5.6	30	17.2	
H885103		0.3	120	1.0	19.0	108	14.8	
H885104		0.6	136	0.9	16.7	200	14.1	
H885105		1.4	15	2.2	7.5	1940	10.0	
H885106		0.6	3	0.3	1.0	27	0.5	
H885107		0.9	8	0.6	2.7	184	7.8	
H885108		0.5	11	0.7	5.8	48	9.5	
H885109		1.5	97	15.4	10.3	134	49.5	
H885110		0.2	7	2.0	5.7	90	4.9	
H885111		0.2	17	47.8	4.6	1550	0.6	1.05
H885112		0.5	17	60.4	7.2	32	7.9	
H885113		0.4	4	192.5	17.7	24	1.8	
H885114		3.9	35	347	25.1	1050	33.3	1.30
H885115		2.9	18	276	12.8	378	10.6	2.31
H885116		5.6	15	104.0	8.2	455	2.8	8.15
H885117		5.5	21	224	9.5	497	24.9	3.70
H885118		2.0	11	131.5	7.2	144	13.0	1.24
H885119		2.8	20	206	11.8	286	22.8	2.28
H885120		1.5	16	262	2.3	50	24.2	
H885985		1.0	5	2.1	1.2	151	1.7	
H885986		1.5	13	3.9	2.3	780	2.5	
H885987		2.2	12	8.6	3.5	2410	1.0	
H885988		0.6	10	0.9	2.2	428	1.5	
H885989		1.1	9	3.0	2.0	237	3.5	
H885990		0.4	5	0.8	1.0	215	0.5	
H885991		0.6	8	9.5	1.1	321	1.3	
H885992		1.7	16	35.6	2.7	1640	7.8	
H885993		1.0	11	72.8	2.9	1870	4.8	
H885994		1.1	13	60.1	2.7	2020	4.8	
H885995		1.1	4	0.5	1.0	17	0.9	
H885996		0.8	10	7.5	2.8	1620	1.5	
H885997		3.4	15	5.2	2.2	575	6.7	
H885998		0.7	6	0.5	1.1	137	1.5	
H885999		0.6	14	0.5	4.8	29	13.4	
H886000		0.9	7	197.5	7.1	128	3.5	2.76

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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100665

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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CERTIFICATE VA09100664

Project: RAU

P.O. No.: Batch 53

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09100664

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885121		2.98	2.77	2.58	0.33	>10000	980	0.09	427	8.64	2.04	13.55	2.0	6	0.64	7.6
H885122		5.24	2.31	0.43	0.38	>10000	400	0.13	295	6.86	1.30	13.90	2.5	5	0.54	5.2
H885123		3.88	0.01	0.08	0.12	33	60	0.12	1.00	18.90	0.07	1.52	1.1	1	0.22	1.4
H885124		3.82	12.05	1.12	0.97	>10000	370	0.71	982	0.58	3.37	12.65	5.1	9	1.76	7.2
H885125		6.64	0.97	0.20	1.54	>10000	360	0.76	102.5	6.08	3.36	25.7	4.8	17	3.92	13.4
H885126		3.66	1.20	0.43	1.01	>10000	140	0.50	234	1.23	2.27	20.4	4.0	9	2.89	9.1
H885127		6.66	1.40	0.28	0.77	7980	270	0.33	315	8.29	1.36	13.85	2.7	6	2.02	4.8
H885128		7.54	0.91	0.36	0.93	6020	530	0.38	135.0	9.41	2.95	10.30	3.2	10	1.49	5.0
H885129		0.26	1.72	1.65	0.10	>10000	40	<0.05	335	11.60	0.83	57.5	1.7	5	0.64	16.0
H885130		8.48	1.24	1.62	0.48	6040	430	0.32	246	12.45	6.24	9.53	2.6	4	0.64	7.2
H885131		6.14	0.72	0.95	2.08	5590	1110	0.60	164.0	11.50	4.49	15.50	5.8	25	2.57	9.6
H885132		3.76	0.23	0.04	0.12	20	30	0.11	6.14	19.95	0.07	1.95	0.9	1	0.39	0.9
H885133		8.18	0.10	0.13	0.74	418	280	0.26	4.57	17.75	0.73	7.71	2.8	11	1.37	2.5
H885134		9.98	0.05	0.28	0.46	424	250	0.24	4.40	17.70	1.21	7.51	1.8	6	0.65	2.4
H885135		7.52	0.07	0.32	0.39	371	270	0.24	5.50	17.60	1.45	6.43	1.6	4	0.59	2.5
H885136		3.68	0.04	0.27	0.41	365	140	0.24	5.76	18.85	1.32	9.15	1.7	4	0.63	2.9
H885137		5.24	0.12	0.32	1.21	1960	300	0.52	40.7	15.75	3.52	12.10	3.4	13	1.70	12.9
H885138		3.68	0.09	0.23	1.34	683	230	0.49	6.44	16.40	0.95	10.05	2.7	16	3.53	2.7
H885139		4.02	0.10	0.20	1.34	670	230	0.51	6.49	16.60	0.94	10.10	2.7	18	3.55	2.8
H885140		6.48	0.01	1.31	0.87	68	50	0.49	89.0	16.80	2.23	14.25	6.3	5	0.70	9.4
H885141		5.44	0.01	0.98	0.90	105	20	0.39	11.50	17.05	2.09	9.21	9.4	4	0.61	9.8
H885142		0.28	5.71	0.19	0.12	>10000	30	<0.05	467	8.24	0.05	39.7	1.8	13	0.79	40.5
H885143		2.60	0.19	2.08	1.17	1820	470	0.38	61.7	20.2	2.04	16.90	5.2	26	1.61	10.5
H885144		3.10	0.07	10.95	1.89	1640	650	0.54	34.4	20.4	4.01	22.0	8.6	42	2.38	33.2
H885145		3.28	0.21	2.83	3.41	3590	1070	0.77	121.0	5.97	5.48	36.3	13.2	65	5.72	35.1
H885146		3.26	0.29	2.23	1.49	5670	590	0.56	283	0.32	3.95	25.2	7.1	30	1.51	11.7
H885147		2.74	0.70	1.84	1.39	>10000	590	0.35	399	0.77	5.47	15.25	5.4	32	1.28	12.7
H885148		2.84	1.13	3.03	2.07	>10000	630	0.40	368	0.51	3.37	16.95	6.2	61	2.75	23.1
H885149		1.04	0.73	42.6	1.48	>10000	500	0.33	274	0.46	3.50	14.55	6.7	68	2.46	57.2
H885150		3.48	0.98	21.4	0.61	>10000	1340	0.31	433	0.56	13.40	28.2	4.8	31	1.33	28.0
H885151		1.78	2.78	5.73	4.43	9830	1620	1.56	96.1	0.46	3.73	48.1	16.8	121	7.93	12.8
H885152		1.88	0.61	2.69	0.92	1000	530	0.63	11.00	26.5	4.08	14.40	4.5	16	1.09	4.5
H885153		8.42	0.02	0.11	0.18	49	110	0.18	2.01	19.00	0.15	5.26	0.9	4	0.24	0.8
H885154		0.60	0.02	0.15	0.59	70	430	0.33	4.74	18.60	1.17	8.92	2.3	14	0.35	2.4
H885155		0.64	0.44	1.58	0.15	1525	740	0.05	416	3.29	1.42	3.01	4.7	9	0.17	4.1
H885156		4.56	0.04	0.43	0.21	288	250	0.12	649	18.50	0.66	12.55	5.3	5	0.23	6.3

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CERTIFICATE OF ANALYSIS VA09100664

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885121		32.8	2.51	0.29	0.2	0.05	0.193	0.06	5.9	1.7	2.09	4270	1.93	0.04	0.9	4.7
H885122		34.7	2.79	0.33	0.2	0.03	0.187	0.05	6.1	1.3	1.91	3230	1.74	0.03	1.1	7.7
H885123		0.50	0.34	<0.05	<0.1	<0.01	0.006	0.04	0.8	1.4	12.25	189	0.84	0.02	0.3	<0.2
H885124		47.9	6.55	0.87	0.7	0.10	0.168	0.28	5.3	2.8	0.21	2140	1.38	0.02	4.2	12.3
H885125		27.4	8.30	0.27	0.7	0.02	0.171	0.33	13.2	5.3	4.26	2710	1.10	0.05	4.5	15.1
H885126		43.4	6.49	0.50	0.5	0.02	0.119	0.19	9.3	2.5	1.39	2110	1.74	0.03	1.4	11.0
H885127		28.7	4.21	0.18	0.3	0.01	0.094	0.19	7.2	3.0	4.51	3510	1.12	0.03	1.7	8.4
H885128		28.2	6.03	0.21	0.6	0.01	0.078	0.38	5.9	2.9	5.10	2320	2.48	0.03	3.1	8.6
H885129		16.45	0.84	0.20	0.1	0.01	0.088	0.06	38.8	2.0	6.73	2160	5.77	0.01	0.5	5.2
H885130		19.25	2.48	0.18	0.3	0.01	0.053	0.17	6.3	2.1	7.28	1720	2.49	0.02	1.8	5.8
H885131		16.85	9.23	0.18	1.0	0.01	0.082	0.91	8.2	8.0	6.56	1160	1.72	0.05	18.6	13.6
H885132		0.50	0.40	<0.05	<0.1	<0.01	<0.005	0.05	1.0	1.7	12.70	202	0.07	0.02	0.4	<0.2
H885133		2.04	2.76	0.07	0.5	<0.1	0.020	0.35	4.8	7.1	11.05	781	0.21	0.02	7.1	5.4
H885134		2.82	2.08	0.05	0.3	<0.01	0.049	0.20	4.4	3.2	10.05	1660	0.59	0.02	3.7	2.6
H885135		2.73	1.79	0.05	0.2	<0.01	0.026	0.15	4.3	1.8	10.30	1330	0.46	0.02	2.0	2.3
H885136		2.61	2.19	0.05	0.4	<0.01	0.028	0.17	5.8	2.4	11.05	1380	0.46	0.02	2.9	2.3
H885137		6.88	5.37	0.10	0.7	<0.01	0.045	0.49	7.4	4.3	9.21	1260	0.38	0.02	5.6	8.4
H885138		3.63	5.98	0.05	0.8	<0.01	0.020	0.74	6.7	7.5	9.65	1220	0.34	0.02	7.6	7.6
H885139		3.59	6.02	0.07	0.7	<0.01	0.022	0.73	6.6	7.2	10.00	1220	0.36	0.03	7.6	7.7
H885140		4.74	5.41	0.06	0.6	<0.01	0.968	0.13	6.8	2.7	9.14	8230	0.36	0.07	3.5	10.1
H885141		4.33	5.88	0.07	0.8	<0.01	0.139	0.10	4.3	3.1	10.20	3700	0.35	0.08	3.7	11.4
H885142		23.5	0.99	0.24	0.1	0.01	0.063	0.07	26.1	1.4	4.75	1440	11.35	0.01	1.5	12.1
H885143		9.17	5.10	0.08	0.6	0.08	0.079	0.21	11.5	4.2	2.58	2260	1.11	0.06	3.6	18.5
H885144		8.33	6.98	0.10	0.9	0.07	0.114	0.42	12.9	8.5	0.95	2630	1.24	0.08	6.0	33.0
H885145		21.9	14.50	0.18	1.3	0.09	0.180	0.77	21.0	13.0	1.17	5200	2.76	0.13	5.9	59.6
H885146		21.9	8.18	0.17	0.8	0.05	0.100	0.15	14.4	4.8	0.62	3320	2.29	0.11	1.9	30.5
H885147		41.3	9.20	0.50	1.1	0.05	0.268	0.34	6.9	1.4	0.36	735	4.07	0.08	2.2	20.6
H885148		33.8	9.38	0.31	0.9	0.06	0.210	0.72	10.2	3.7	0.40	1260	2.51	0.06	4.1	27.7
H885149		28.8	6.30	0.21	0.6	0.07	0.172	0.48	9.5	3.5	0.33	817	3.76	0.06	2.9	35.0
H885150		42.9	2.53	0.42	0.3	0.07	0.365	0.12	12.9	1.1	0.23	1600	3.79	0.04	0.9	20.5
H885151		28.5	27.5	0.32	3.6	0.04	0.230	1.44	27.1	14.4	1.61	1040	2.46	0.10	20.7	52.4
H885152		4.13	4.41	0.06	0.6	0.01	0.080	0.38	9.1	2.0	2.22	2510	0.53	0.03	4.8	9.1
H885153		1.03	1.05	0.05	0.1	<0.01	0.025	0.07	3.9	2.4	11.00	1040	0.13	0.02	0.8	<0.2
H885154		2.62	3.22	0.07	0.3	<0.01	0.025	0.25	6.0	2.4	10.70	2200	0.12	0.03	1.8	6.5
H885155		23.1	0.77	0.17	0.1	0.01	0.085	0.05	1.3	0.5	0.85	902	0.21	0.03	0.2	9.8
H885156		7.65	1.74	0.20	0.1	<0.01	0.056	0.06	4.5	1.8	8.69	7820	<0.05	0.02	0.6	11.8

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100664

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885121		240	65.3	6.0	0.002	0.08	21.8	1.5	7	0.8	31.8	<0.05	0.56	0.4	0.018	0.30
H885122		270	30.6	5.3	0.002	0.07	11.90	2.3	5	0.7	28.6	0.06	0.53	0.6	0.021	0.18
H885123		250	1.8	1.5	<0.002	0.01	0.21	0.4	2	<0.2	52.2	<0.05	0.05	<0.2	0.006	<0.02
H885124		370	122.5	17.9	0.007	0.12	30.5	2.7	10	1.6	21.2	0.11	0.71	1.3	0.039	0.30
H885125		640	20.8	38.6	<0.002	0.06	8.25	5.0	4	1.3	49.7	0.25	0.31	2.2	0.086	0.71
H885126		540	31.9	24.7	0.002	0.06	9.65	4.2	13	0.9	22.7	0.07	0.51	1.3	0.037	0.33
H885127		340	16.0	18.0	0.002	0.06	8.98	3.3	5	0.8	36.8	0.09	0.32	0.6	0.034	0.57
H885128		490	137.5	25.1	<0.002	0.04	5.88	2.6	4	1.4	34.3	0.16	0.22	0.9	0.059	0.29
H885129		110	15.2	7.0	0.005	>10.0	21.7	0.5	5	1.1	89.2	<0.05	0.90	0.6	0.008	0.10
H885130		260	302	12.2	<0.002	0.07	5.12	1.6	4	0.7	45.3	0.09	0.25	0.5	0.035	0.16
H885131		590	203	45.4	0.002	0.04	4.38	4.1	6	2.6	45.7	0.92	0.23	2.6	0.200	0.45
H885132		990	1.7	2.5	0.002	0.01	0.08	0.4	2	<0.2	51.6	<0.05	0.07	<0.2	0.005	0.02
H885133		260	4.1	14.2	<0.002	0.02	0.62	1.7	3	0.8	51.0	0.40	0.06	1.1	0.086	0.16
H885134		190	23.6	12.4	<0.002	0.02	0.65	1.4	2	0.6	59.4	0.21	0.06	0.6	0.047	0.15
H885135		170	34.6	12.1	<0.002	0.02	0.63	1.1	2	0.5	52.3	0.11	0.07	0.3	0.037	0.16
H885136		180	27.3	13.9	<0.002	0.03	0.63	1.2	2	0.6	56.0	0.18	0.05	0.4	0.038	0.16
H885137		540	65.1	28.5	<0.002	0.02	2.15	2.9	3	1.2	45.5	0.32	0.12	1.2	0.115	0.32
H885138		460	10.4	64.2	<0.002	0.02	0.63	3.1	3	1.4	50.8	0.45	0.13	1.1	0.168	0.48
H885139		470	10.5	63.7	<0.002	0.02	0.63	3.2	3	1.4	52.9	0.44	0.12	1.1	0.165	0.47
H885140		560	58.1	11.7	<0.002	0.71	1.79	3.3	3	10.3	77.3	0.19	0.19	0.6	0.089	0.14
H885141		730	61.1	13.0	0.003	1.94	0.97	2.2	3	8.1	83.6	0.19	0.08	0.4	0.107	0.20
H885142		60	6.3	7.9	0.004	>10.0	23.6	0.4	9	2.1	61.6	0.08	1.55	0.4	0.009	0.17
H885143		460	52.7	15.5	<0.002	0.06	2.65	4.3	2	1.9	19.5	0.19	0.29	1.0	0.103	0.32
H885144		570	163.5	27.3	<0.002	0.02	4.17	6.1	2	2.8	21.3	0.33	0.24	1.7	0.187	0.57
H885145		1250	295	64.8	<0.002	0.02	6.58	10.0	2	5.0	24.5	0.31	0.51	2.5	0.217	0.93
H885146		370	192.0	10.7	<0.002	0.01	6.50	6.3	2	2.0	14.6	0.10	0.74	1.0	0.069	0.29
H885147		400	264	46.2	0.002	0.03	14.30	3.9	4	4.6	21.9	0.11	1.47	0.9	0.063	0.42
H885148		520	226	35.1	0.002	0.06	10.25	6.0	3	2.9	20.6	0.21	0.70	1.9	0.157	0.46
H885149		410	274	24.6	0.003	0.05	9.20	5.0	2	2.3	20.8	0.14	0.71	1.5	0.114	0.35
H885150		620	417	7.6	0.003	0.05	10.65	7.1	2	1.2	22.7	<0.05	1.01	0.5	0.029	0.16
H885151		990	42.5	114.0	0.002	0.09	4.61	13.5	2	7.2	49.5	0.90	0.47	8.3	0.348	0.91
H885152		350	32.5	36.4	<0.002	0.02	0.76	3.1	2	3.4	31.5	0.25	0.15	1.1	0.117	0.27
H885153		80	6.4	5.3	<0.002	0.02	0.32	0.6	2	0.9	55.7	<0.05	0.05	0.2	0.018	0.04
H885154		120	29.6	16.1	<0.002	0.02	0.68	1.3	2	2.0	55.6	0.10	0.11	0.3	0.051	0.09
H885155		70	114.0	3.0	<0.002	0.06	7.74	0.4	4	1.0	6.8	<0.05	0.20	<0.2	0.007	0.03
H885156		130	41.8	5.3	<0.002	2.12	13.10	1.4	3	1.1	127.5	<0.05	0.57	<0.2	0.018	0.04

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100664

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885121		1.9	14	61.9	17.3	407	8.0	1.86
H885122		1.6	16	78.5	19.2	193	12.4	1.41
H885123		0.5	1	0.2	1.1	18	0.8	
H885124		2.4	24	163.0	17.8	491	25.7	2.04
H885125		1.9	30	17.6	21.3	316	34.6	1.94
H885126		2.2	30	7.6	14.3	205	26.5	1.77
H885127		1.4	21	154.0	15.9	97	12.8	
H885128		1.8	23	61.9	11.1	448	26.7	
H885129		0.7	5	192.0	7.4	136	3.1	2.65
H885130		1.9	15	46.4	9.5	1310	11.6	
H885131		1.8	44	59.0	11.6	636	48.4	
H885132		0.6	1	0.2	1.5	17	0.6	
H885133		0.5	13	2.6	7.1	79	22.7	
H885134		0.4	10	3.0	9.2	204	14.1	
H885135		0.4	7	3.5	7.3	203	10.2	
H885136		0.4	7	4.3	8.1	181	17.4	
H885137		1.3	21	25.7	9.8	579	28.7	
H885138		0.8	24	5.6	7.0	142	33.3	
H885139		0.8	25	5.7	7.2	139	32.1	
H885140		0.8	24	4.7	16.3	529	25.9	
H885141		0.9	22	4.1	8.7	486	34.9	
H885142		0.5	6	34.3	5.0	12	5.5	3.66
H885143		0.8	24	4.5	15.6	309	25.0	
H885144		1.1	36	17.4	15.0	725	34.3	
H885145		2.1	72	11.8	35.0	1680	57.8	
H885146		1.8	38	5.5	27.9	1120	34.3	
H885147		3.7	41	98.4	15.6	1410	56.5	2.42
H885148		2.0	64	32.9	10.8	1290	39.2	1.57
H885149		1.7	43	178.0	8.9	1480	25.0	1.13
H885150		2.1	32	122.5	23.3	2250	12.0	1.87
H885151		5.1	122	49.5	27.5	716	170.0	
H885152		0.7	19	17.5	12.8	349	27.1	
H885153		0.2	7	1.4	4.0	32	5.4	
H885154		0.5	20	2.1	5.0	102	13.7	
H885155		1.1	8	86.4	4.1	722	4.3	
H885156		0.6	14	263	26.8	124	5.3	

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100664

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE VA09100663

Project: RAU

P.O. No.: Batch 55

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09100663

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885193		7.38	3.53	0.51	0.07	>10000	10	<0.05	146.0	7.12	0.11	3.64	0.5	1	0.15	2.1
H885194		6.82	1.61	0.38	0.04	>10000	10	0.14	1085	11.80	0.08	5.66	0.5	2	0.25	2.1
H885195		10.12	0.15	0.11	0.06	1550	10	<0.05	175.5	14.75	0.06	9.19	0.4	1	0.42	2.0
H885196		3.28	0.85	7.31	0.52	9050	580	0.17	53.4	16.40	7.87	23.0	2.1	15	0.66	14.7
H885197		7.86	0.04	0.34	1.29	305	360	0.34	4.40	25.8	0.31	17.80	11.5	23	0.71	9.8
H885198		1.46	0.02	0.21	6.18	1450	4320	0.91	5.74	3.75	0.28	67.5	47.1	159	9.15	20.9
H885199		2.92	0.04	0.17	9.65	283	6810	1.47	27.2	0.11	0.04	35.0	26.4	297	5.80	11.5
H885200		2.52	0.01	0.10	8.09	323	2780	1.41	8.83	0.10	0.02	44.6	10.1	178	7.09	8.2
H885201		0.84	0.02	0.68	4.09	1330	320	0.68	44.7	4.86	1.07	58.9	13.5	45	12.50	12.7
H885202		0.28	0.55	0.90	0.84	5890	100	0.27	99.8	12.75	0.14	35.6	6.3	14	1.98	34.2
H885203		1.70	0.18	0.42	3.57	2730	700	0.61	164.5	0.30	0.17	67.5	22.6	39	11.30	40.9
H885204		1.08	0.28	1.05	3.96	4960	1100	1.15	977	0.24	0.04	30.0	9.6	20	3.63	17.7
H885205		2.90	0.20	0.15	4.26	9100	670	0.79	161.5	0.19	0.07	31.8	8.8	16	7.88	4.3
H885206		2.88	0.27	0.15	4.03	7280	70	0.84	126.0	1.03	0.08	43.2	10.3	28	2.98	6.2
H885207		1.06	1.49	0.50	0.26	>10000	70	<0.05	744	0.87	0.17	15.40	4.4	4	1.26	4.6
H885208		0.40	1.15	0.69	0.14	>10000	30	<0.05	455	0.71	0.12	9.04	2.5	2	1.86	3.1
H885209		3.66	0.01	0.06	0.08	88	20	0.05	0.75	19.70	0.06	1.50	0.8	1	0.15	1.3
H885210		5.76	1.78	0.15	0.41	>10000	20	0.09	192.0	7.44	0.30	26.2	4.0	2	2.35	6.5
H885211		9.16	3.90	0.09	0.06	>10000	10	0.07	237	8.91	0.05	12.30	0.8	2	0.57	3.3
H885212		12.84	2.66	0.13	0.06	>10000	10	0.17	134.5	11.75	0.02	7.64	0.6	2	0.59	3.4
H885213		1.90	0.26	0.03	8.73	>10000	320	2.33	71.5	0.32	<0.02	102.0	9.4	39	8.18	3.0
H885214		8.74	0.08	0.42	2.34	376	40	0.27	100.0	4.55	0.07	19.95	2.3	11	10.05	19.9
H885215		6.32	0.13	0.53	0.25	391	10	<0.05	24.5	0.31	0.16	2.62	6.1	<1	2.61	42.4
H885216		10.06	5.35	0.19	0.08	>10000	10	<0.05	209	9.14	0.05	5.93	0.7	1	0.91	4.5
H885217		9.56	6.82	0.16	0.05	>10000	10	<0.05	239	12.70	0.04	7.30	0.4	1	0.63	4.0
H885218		7.20	11.90	0.19	0.04	>10000	10	0.08	176.5	7.00	0.12	4.66	0.2	2	0.45	3.0
H885219		3.50	0.08	0.05	0.07	936	10	0.07	0.97	19.45	0.05	1.57	0.8	1	0.14	1.6
H885220		7.46	8.76	0.25	0.26	>10000	40	0.22	254	7.65	0.10	8.63	1.3	4	1.85	4.7
H885221		11.92	0.29	0.23	0.07	7730	10	<0.05	306	15.25	0.11	8.67	0.7	1	0.72	5.2
H885222		0.26	5.77	0.20	0.12	>10000	30	<0.05	497	9.11	0.03	39.7	1.8	16	0.75	42.0
H885223		20.08	0.27	0.11	0.05	5080	10	<0.05	125.5	15.85	0.09	13.40	0.4	<1	0.39	2.3
H885224		13.48	4.80	0.06	0.14	1690	10	0.08	120.5	14.10	0.09	145.0	0.8	1	0.76	2.5
H885225		5.78	1.27	0.06	0.11	3530	10	0.10	153.5	13.70	0.08	94.4	0.7	1	0.63	2.1
H885226		3.90	1.31	0.08	0.16	3990	10	0.08	260	12.60	0.31	46.8	1.7	<1	0.68	3.4
H885227		10.42	8.35	0.20	0.04	>10000	10	<0.05	268	7.97	0.06	5.34	0.6	<1	0.19	4.5
H885228		15.04	2.92	0.16	0.03	>10000	10	<0.05	255	9.44	0.06	6.57	0.5	<1	0.14	4.2

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100663

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885193		28.3	0.79	0.60	0.1	<0.01	0.073	0.02	1.5	0.8	3.65	1220	<0.05	0.03	0.6	0.4
H885194		19.20	0.78	0.70	<0.1	<0.01	0.042	0.02	2.3	1.3	6.39	2230	0.17	0.01	0.1	1.1
H885195		11.60	0.58	0.19	<0.1	<0.01	0.066	0.03	4.2	1.4	8.69	3050	0.12	0.01	0.2	0.8
H885196		8.56	2.26	0.15	0.2	0.01	0.446	0.21	10.9	2.5	5.10	6300	0.76	0.02	1.5	7.0
H885197		1.98	3.38	0.08	0.6	<0.01	0.070	0.55	9.4	3.0	1.64	994	0.80	0.02	5.9	22.6
H885198		6.19	17.60	0.18	1.9	<0.01	0.036	3.20	35.1	15.5	1.32	214	2.82	0.15	19.6	98.1
H885199		5.61	33.7	0.16	0.8	<0.01	0.088	4.85	18.5	26.3	0.84	84	1.58	0.18	16.3	88.8
H885200		6.20	25.7	0.17	0.9	<0.01	0.061	4.14	32.5	23.2	1.02	41	1.18	0.11	31.7	54.6
H885201		14.30	12.60	0.24	0.8	<0.01	0.057	3.38	46.5	13.7	2.87	658	2.21	0.08	14.1	122.0
H885202		14.65	3.60	0.23	0.2	<0.01	0.073	0.38	20.4	3.6	6.82	2040	16.65	0.03	3.0	22.6
H885203		26.4	16.05	0.34	0.6	<0.01	0.045	2.18	48.5	10.7	2.18	257	1.96	0.04	5.5	140.0
H885204		26.6	20.2	0.49	2.5	<0.01	0.057	2.54	14.3	10.4	2.11	878	1.08	0.08	14.5	40.7
H885205		22.5	16.50	0.33	1.4	<0.01	0.060	3.12	17.1	21.5	2.91	1970	0.26	0.06	10.7	32.0
H885206		26.1	18.00	0.30	1.5	<0.01	0.077	2.51	23.9	9.3	2.15	1720	0.23	0.04	12.6	33.6
H885207		44.4	2.30	0.63	0.1	<0.01	0.144	0.12	7.1	0.9	0.92	2510	0.07	0.01	0.4	10.2
H885208		45.8	1.20	0.72	<0.1	<0.01	0.108	0.20	4.4	0.4	0.36	1800	0.08	0.01	0.1	11.9
H885209		0.50	0.25	0.07	<0.1	<0.01	<0.005	0.03	0.9	1.2	12.75	193	0.08	0.01	0.3	0.9
H885210		24.3	1.35	0.30	0.1	<0.01	0.070	0.09	12.4	1.2	3.78	1020	0.09	0.01	1.0	8.8
H885211		21.6	0.67	0.42	<0.1	<0.01	0.089	0.03	6.1	0.9	5.17	1440	0.11	0.01	0.1	1.1
H885212		17.80	0.76	0.38	<0.1	<0.01	0.099	0.04	3.0	1.5	6.88	2160	<0.05	0.01	0.2	0.3
H885213		5.14	30.7	0.23	1.2	<0.01	0.063	5.07	53.9	52.9	1.28	161	0.91	0.09	75.9	30.0
H885214		30.5	8.44	0.32	0.6	<0.01	0.057	2.02	9.4	11.2	4.64	892	0.46	0.03	15.2	8.9
H885215		>50	1.65	0.48	0.2	<0.01	0.053	0.19	1.0	1.5	1.90	176	0.12	<0.01	2.3	24.1
H885216		22.5	0.67	0.29	<0.1	<0.01	0.064	0.06	2.7	1.4	5.13	1640	0.06	0.01	0.6	1.1
H885217		18.40	0.58	0.24	<0.1	0.08	0.093	0.04	2.8	1.3	6.59	2790	0.05	0.01	0.3	0.6
H885218		27.3	0.56	0.49	<0.1	0.07	0.114	0.03	1.6	0.7	3.36	1740	<0.05	0.01	0.2	<0.2
H885219		0.62	0.24	0.08	<0.1	<0.01	<0.005	0.03	0.8	1.1	12.80	207	0.06	0.01	0.3	1.4
H885220		25.0	1.91	0.57	0.1	0.03	0.142	0.16	3.9	2.0	4.20	2070	0.16	0.01	1.2	5.5
H885221		12.25	0.63	0.18	<0.1	0.01	0.065	0.05	3.5	1.8	8.96	3310	0.05	0.01	0.3	0.6
H885222		24.2	1.06	0.32	0.1	0.01	0.067	0.07	25.4	1.3	4.94	1500	11.25	0.01	1.4	13.0
H885223		10.20	0.45	0.12	<0.1	0.01	0.081	0.03	7.1	1.8	9.17	3090	0.10	0.01	0.3	<0.2
H885224		10.40	1.40	0.23	0.1	0.01	0.086	0.04	93.3	2.8	8.40	2970	0.18	0.02	0.4	5.5
H885225		10.95	1.15	0.20	0.1	0.01	0.088	0.03	60.9	2.5	8.19	2820	0.15	0.01	0.4	4.9
H885226		14.60	1.16	0.20	0.1	0.01	0.097	0.04	28.8	1.9	7.43	3460	1.25	0.01	0.6	6.6
H885227		24.7	0.35	0.38	0.1	0.01	0.080	0.01	2.0	0.9	4.35	1420	0.23	0.01	0.4	1.6
H885228		20.3	0.33	0.32	<0.1	0.01	0.087	0.01	2.6	0.9	5.26	1640	0.11	0.01	0.3	1.0

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Project: RAU

Finalized Date: 3-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100663

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885193		30	4.8	1.3	<0.002	>10.0	22.4	1.5	6	0.4	48.2	<0.05	0.81	<0.2	<0.005	<0.02
H885194		40	6.0	2.7	<0.002	>10.0	27.3	1.6	3	0.5	79.7	<0.05	0.82	<0.2	<0.005	<0.02
H885195		70	6.0	4.2	<0.002	>10.0	3.35	0.4	2	0.2	106.5	<0.05	0.15	<0.2	<0.005	<0.02
H885196		60	220	15.7	0.002	0.46	8.42	1.8	2	3.5	163.0	0.08	0.06	0.9	0.036	0.27
H885197		330	9.4	15.8	<0.002	1.05	3.72	3.6	2	0.5	248	0.32	0.06	1.4	0.099	0.17
H885198		1960	5.4	174.5	<0.002	0.24	4.06	14.6	2	2.6	49.1	1.19	0.21	6.9	0.335	1.06
H885199		960	2.5	166.0	<0.002	0.64	1.77	30.5	1	3.6	30.1	0.93	0.13	4.8	0.440	1.17
H885200		1360	2.4	204	<0.002	0.65	1.14	16.9	1	3.4	37.3	1.92	0.17	6.6	0.375	1.24
H885201		3420	22.1	266	<0.002	1.53	2.83	4.8	2	2.1	94.6	0.75	0.16	13.3	0.150	1.54
H885202		250	15.5	32.3	0.017	>10.0	4.47	1.9	6	3.1	88.3	0.17	0.18	0.8	0.071	0.26
H885203		7170	3.2	210	<0.002	0.84	4.43	3.9	3	2.6	70.1	0.25	0.22	13.4	0.087	1.44
H885204		2980	8.7	161.0	<0.002	1.19	13.50	2.1	4	7.2	51.7	0.86	1.02	5.7	0.116	1.62
H885205		420	6.1	208	<0.002	4.56	6.16	2.8	3	4.0	32.7	0.56	0.20	4.6	0.109	1.16
H885206		460	3.9	130.0	<0.002	5.08	4.43	3.9	3	4.6	24.1	0.69	0.20	5.7	0.117	0.77
H885207		220	11.0	14.4	<0.002	9.64	23.9	1.1	8	0.7	16.7	0.05	0.99	0.4	0.010	0.13
H885208		100	6.9	25.9	<0.002	3.19	18.25	0.8	5	0.5	40.3	<0.05	0.98	0.5	<0.005	0.05
H885209		250	1.4	1.3	<0.002	0.02	<0.05	0.3	1	<0.2	51.8	<0.05	<0.05	<0.2	<0.005	<0.02
H885210		150	3.5	31.8	<0.002	>10.0	20.4	0.5	5	0.4	49.5	0.05	0.38	0.7	0.009	0.18
H885211		50	3.1	6.6	<0.002	>10.0	28.8	0.4	7	0.5	72.5	<0.05	1.59	<0.2	<0.005	<0.02
H885212		50	3.0	5.6	<0.002	>10.0	18.30	0.2	4	0.7	92.1	<0.05	0.56	<0.2	0.005	<0.02
H885213		940	1.5	258	<0.002	3.85	5.53	9.1	2	14.6	34.7	4.13	0.10	16.0	0.566	1.22
H885214		530	2.7	190.5	<0.002	>10.0	3.50	2.2	5	4.9	47.9	0.82	0.26	4.0	0.136	0.83
H885215		100	2.5	42.2	0.002	>10.0	2.35	0.2	10	1.0	3.4	0.12	0.36	0.8	0.022	0.30
H885216		40	4.6	11.2	<0.002	>10.0	16.75	0.3	4	0.4	66.7	<0.05	0.38	<0.2	0.007	0.05
H885217		50	3.3	3.7	<0.002	>10.0	9.65	0.5	2	0.4	93.5	<0.05	0.14	<0.2	<0.005	0.03
H885218		40	2.2	2.6	<0.002	>10.0	39.6	<0.1	3	0.5	54.4	<0.05	0.35	<0.2	<0.005	<0.02
H885219		290	1.4	1.0	<0.002	0.22	0.29	0.2	1	<0.2	51.4	<0.05	<0.05	<0.2	<0.005	<0.02
H885220		100	3.7	17.9	<0.002	>10.0	28.9	0.5	4	0.9	57.7	0.05	0.48	0.2	0.017	0.11
H885221		60	3.6	7.1	0.003	9.98	5.77	0.7	3	0.4	110.5	<0.05	0.20	<0.2	<0.005	0.08
H885222		60	6.7	8.0	0.003	>10.0	24.5	0.3	9	2.2	63.0	0.08	1.38	0.3	0.008	0.13
H885223		50	3.7	3.1	<0.002	9.64	3.40	0.5	2	0.2	116.5	<0.05	0.14	<0.2	<0.005	<0.02
H885224		170	4.2	5.8	0.003	>10.0	2.89	0.6	3	0.3	118.5	<0.05	0.19	0.2	0.007	0.07
H885225		140	4.3	4.8	0.002	>10.0	3.66	0.5	3	0.3	112.0	<0.05	0.30	0.2	0.007	0.06
H885226		90	4.3	6.8	0.004	>10.0	10.25	0.7	2	0.3	100.0	<0.05	0.31	<0.2	0.009	0.19
H885227		80	4.9	1.6	0.003	>10.0	25.1	0.4	5	0.2	54.0	<0.05	0.96	<0.2	<0.005	0.07
H885228		60	4.7	1.2	0.002	>10.0	18.40	0.4	4	0.2	73.2	<0.05	0.60	<0.2	<0.005	0.08

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Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885193		0.1	4	12.3	3.5	7	3.6	8.94
H885194		0.1	5	90.4	6.6	12	2.3	1.83
H885195		0.2	6	12.9	8.3	16	1.4	
H885196		0.6	11	92.1	9.9	1640	9.2	
H885197		1.5	25	1.3	9.7	61	24.1	
H885198		2.6	114	1.6	14.7	77	73.6	
H885199		0.7	119	2.3	5.8	56	31.6	
H885200		0.6	99	2.5	6.6	32	35.2	
H885201		1.0	36	2.5	8.5	226	32.2	
H885202		0.5	20	62.9	7.5	32	11.1	
H885203		1.1	36	8.3	9.4	70	22.9	
H885204		2.8	27	77.1	10.6	36	88.3	
H885205		0.9	22	57.6	9.6	29	47.8	
H885206		1.4	36	39.0	9.7	34	58.4	
H885207		0.3	12	291	6.9	25	7.9	5.23
H885208		0.2	8	460	6.9	27	2.1	3.30
H885209		0.5	5	0.2	1.0	15	<0.5	
H885210		0.5	9	79.5	12.2	16	6.4	5.99
H885211		0.2	7	34.2	7.4	10	2.3	5.26
H885212		0.3	8	53.8	7.3	10	2.4	4.70
H885213		0.8	75	12.2	14.0	11	46.9	1.33
H885214		0.7	23	121.5	8.6	27	23.0	
H885215		0.6	8	89.8	2.2	10	7.9	
H885216		0.2	6	120.5	4.9	14	2.5	4.14
H885217		0.1	8	92.6	7.3	13	1.6	2.01
H885218		0.1	6	62.8	4.7	6	1.4	13.90
H885219		0.4	5	0.1	1.0	14	<0.5	
H885220		0.4	8	155.5	5.3	15	6.3	9.45
H885221		0.1	8	570	9.0	20	1.6	
H885222		0.5	8	37.4	4.9	11	5.4	3.09
H885223		0.1	7	40.8	8.9	19	1.4	
H885224		1.8	5	177.0	9.5	14	3.2	
H885225		0.9	5	59.0	8.8	13	2.9	
H885226		0.8	5	113.0	11.1	67	3.8	
H885227		0.2	3	308	4.4	11	2.0	5.83
H885228		0.2	3	150.5	5.3	11	1.3	3.90

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Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100663

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

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North Vancouver BC V7H 0A7
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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2009
Account: RCM

CERTIFICATE VA09100631

Project: RAU

P.O. No.:

This report is for 65 Rock samples submitted to our lab in Vancouver, BC, Canada on 14-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-MS61	48 element four acid ICP-MS	
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Pb-VOL70	Pb by Titration	

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 5-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100631

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885088		0.72	0.10	3.90	6.73	121	2020	0.69	0.12	17.40	0.96	31.7	47.0	174	1.17	52.3
H885089		0.74	<0.01	1.32	2.86	126.0	860	1.52	0.06	0.18	1.09	93.4	77.3	495	8.84	133.5
H885090		1.60	<0.01	0.83	7.75	52.9	1760	2.16	0.32	0.07	0.57	206	2.6	6	1.12	34.6
H885091		2.00	0.02	0.62	2.03	79.3	1680	0.82	0.03	0.32	1.31	42.6	45.8	34	0.78	81.6
H885092		0.10	<0.01	>100	0.37	>10000	340	0.17	26.0	18.40	30.8	12.15	10.4	5	0.22	8950
H885093		0.18	<0.01	2.91	8.85	194.5	6500	3.77	0.24	0.49	1.75	84.8	83.5	575	3.42	212
H885094		0.20	0.05	3.92	1.32	2740	400	0.53	3.05	0.36	6.77	9.20	17.7	22	1.17	68.4
H885095		0.18	<0.01	1.92	1.25	253	500	0.57	2.15	13.30	2.00	32.9	38.8	89	0.55	352
H885096		0.10	<0.01	0.92	0.18	140	190	0.20	0.23	18.25	0.57	5.77	2.5	5	0.11	21.3
H885097		0.16	0.05	7.71	0.13	805	100	0.21	39.5	3.61	2.69	2.19	6.5	4	0.05	52.0
H885098		0.30	<0.01	0.53	0.07	42	120	0.11	1.13	21.7	1.33	3.31	0.9	3	0.10	4.7
H885099		0.20	<0.01	0.82	0.28	186	160	0.34	0.21	17.10	2.51	6.98	4.2	3	0.14	14.8
H885100		0.28	<0.01	0.38	0.48	94	250	0.37	0.05	23.5	0.65	6.30	2.9	9	0.21	16.0
H884951		0.76	<0.01	0.99	0.13	119	130	0.85	0.32	21.6	81.2	2.86	21.6	3	0.13	27.9
H884952		0.84	0.11	4.40	0.48	1480	540	0.37	71.4	13.20	24.5	19.45	16.0	24	0.20	158.0
H884953		0.56	0.40	>100	0.46	215	230	0.43	5.64	0.64	12.15	29.3	18.7	15	0.92	921
H884954		0.72	0.32	>100	0.56	1475	30	<0.05	510	0.13	10.55	63.6	3.7	39	0.28	677
H884955		0.70	0.11	10.10	1.06	7760	290	0.71	1540	1.67	16.20	24.4	9.6	48	0.42	152.5
H884956		0.48	0.10	22.3	1.48	5990	800	0.39	129.5	9.77	45.3	33.7	11.0	29	2.29	2750
H884957		1.24	0.26	>100	0.55	312	150	0.80	15.00	0.24	12.15	58.6	11.5	10	1.48	849
H884958		0.78	0.47	>100	1.57	356	530	1.03	43.6	0.36	9.36	119.0	6.0	39	2.08	1125
H884959		1.24	0.09	19.05	1.48	504	480	0.73	10.70	0.34	19.70	8.69	18.4	18	0.79	735
H884960		0.88	0.34	23.9	0.47	2980	50	0.37	113.5	4.76	15.25	15.40	7.0	21	0.22	545
H884961		0.66	0.34	8.79	2.59	8090	1340	1.21	28.7	0.66	11.65	18.55	9.5	67	1.40	172.5
H884962		1.00	0.88	>100	0.43	3200	60	0.20	304	0.14	12.25	66.0	5.5	33	0.41	831
H884963		1.10	0.10	6.09	0.25	1600	60	0.25	69.9	15.50	11.65	33.7	9.2	7	0.19	35.2
H884964		0.46	0.10	3.70	5.16	364	1290	0.84	7.40	6.12	24.4	42.6	116.5	213	1.52	282
H884965		0.56	0.10	4.54	1.28	872	340	0.44	7.98	2.42	28.6	17.80	21.4	29	1.77	115.5
H884966		0.72	0.15	2.14	1.42	865	1050	0.81	0.83	9.41	16.85	30.0	21.2	85	1.71	520
H884967		0.56	1.57	3.18	0.55	1020	1900	0.29	92.9	22.4	15.80	6.19	9.8	33	0.33	22.4
H884968		1.58	0.54	8.69	0.66	8330	1890	0.24	266	4.67	20.3	18.90	6.8	22	0.67	3050
H884969		0.68	0.19	3.01	3.68	382	1270	0.76	2.83	0.30	3.52	56.9	153.0	191	1.06	743
H884970		0.70	2.81	6.39	0.16	9530	180	0.12	126.5	0.28	21.9	363	5.6	24	0.10	69.4
H884971		0.76	0.18	0.81	1.96	284	390	1.34	2.33	5.85	2.84	195.5	158.0	9	0.50	136.0
H884972		0.92	0.06	1.26	1.69	241	730	0.94	7.51	0.67	0.19	108.0	133.5	5	0.24	268
H884973		0.64	0.04	1.07	8.12	359	1900	0.76	0.28	0.38	2.85	83.7	47.7	377	2.75	126.5
H884974		0.12	0.14	1.39	0.92	1290	130	1.14	0.26	0.47	10.15	189.0	202	13	0.08	59.0
H884975		0.56	0.03	54.9	5.01	139.5	820	4.19	4.41	0.22	7.45	18.00	58.1	127	0.61	898
H884976		1.00	0.03	2.21	3.32	307	510	1.91	0.70	0.27	7.33	21.3	52.5	42	0.82	130.0
H884977		1.28	0.01	1.02	4.19	170.5	810	2.01	0.46	0.21	3.67	37.0	59.4	65	1.25	160.5

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 5-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100631

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H885088		7.50	11.90	0.18	1.7	0.040	3.20	16.5	10.4	0.63	254	1.31	0.08	15.7	203	1200
H885089		5.10	29.2	0.37	0.6	0.111	4.27	46.9	13.9	0.30	340	1.64	0.05	7.3	216	1530
H885090		15.15	22.9	0.41	4.4	0.151	6.12	105.0	6.0	0.20	94	19.10	0.14	103.5	15.1	490
H885091		45.4	5.49	0.65	0.7	0.065	0.93	20.7	3.5	0.41	1140	62.2	0.05	4.8	110.5	2910
H885092		19.70	1.67	0.29	0.2	1.005	0.14	6.7	0.4	0.51	2800	31.5	0.03	0.5	28.1	1760
H885093		16.85	27.4	0.38	1.6	0.095	4.72	43.6	39.4	1.34	319	45.4	0.12	8.5	208	2210
H885094		44.3	5.98	0.81	0.5	0.119	0.55	6.2	3.0	0.36	1020	136.5	0.02	1.4	135.0	1390
H885095		33.2	4.62	0.45	0.6	0.073	0.50	19.7	3.6	0.77	522	137.5	0.02	1.2	132.5	2650
H885096		15.30	0.74	0.18	0.1	0.469	0.07	3.9	0.7	5.16	3510	47.5	0.01	0.3	12.6	380
H885097		>50	0.71	0.80	0.1	0.065	0.02	1.2	0.4	0.71	1360	290	0.02	0.5	61.9	480
H885098		2.15	0.28	0.07	<0.1	0.022	0.02	1.8	0.5	9.91	1300	11.80	0.01	0.3	16.3	70
H885099		26.0	1.25	0.41	0.2	0.006	0.11	5.1	0.8	1.03	405	124.0	0.01	0.5	114.0	800
H885100		10.95	1.88	0.14	0.3	0.006	0.20	4.1	1.9	3.21	317	48.7	0.03	0.8	58.3	780
H884951		14.25	0.51	0.23	0.1	0.234	0.04	2.3	0.6	0.25	3290	157.0	0.01	0.4	178.5	270
H884952		33.9	1.76	0.40	0.2	0.058	0.16	16.4	1.7	0.59	918	130.5	0.04	0.8	193.0	5670
H884953		10.35	1.93	0.14	0.1	0.561	0.06	14.6	20.2	0.05	401	4.16	0.01	0.2	44.2	7060
H884954		38.7	4.71	0.56	0.1	0.201	0.02	42.8	8.8	0.07	200	16.55	0.01	0.2	57.4	2020
H884955		>50	5.59	0.79	0.5	0.516	0.14	13.5	1.9	0.20	603	47.5	0.01	1.7	81.2	1730
H884956		25.8	4.96	1.30	0.7	4.56	0.49	16.8	4.4	0.19	557	12.00	0.03	1.7	50.2	3250
H884957		8.50	2.39	0.24	0.1	0.249	0.04	22.3	19.5	0.05	291	2.32	0.01	0.2	39.6	2470
H884958		6.68	5.66	0.46	1.0	0.110	0.50	49.3	9.4	0.08	61	6.35	0.01	1.8	43.5	7450
H884959		26.1	2.24	0.32	0.3	0.105	0.16	4.5	13.9	0.07	173	3.42	0.01	0.4	116.0	1350
H884960		46.6	2.52	0.82	0.1	0.138	0.04	9.4	0.9	0.12	613	12.10	0.01	0.5	93.7	1570
H884961		48.0	23.1	0.76	0.7	0.511	0.84	9.4	7.2	0.32	239	35.4	0.05	0.8	62.2	2620
H884962		37.3	3.67	3.60	0.1	0.190	0.05	43.0	5.4	0.08	556	20.4	0.01	0.3	55.4	1610
H884963		29.2	0.93	0.38	0.1	0.040	0.04	21.2	0.8	0.18	570	4.18	0.01	0.4	46.1	590
H884964		32.1	18.60	0.41	1.8	0.199	1.41	21.9	4.7	0.43	356	6.65	0.09	6.0	563	4100
H884965		49.2	12.10	0.90	0.9	2.32	0.41	17.0	2.9	0.20	3160	3.24	0.02	6.0	95.7	2860
H884966		18.25	6.60	0.26	0.7	0.139	0.70	31.1	5.3	0.39	575	29.4	0.03	1.7	387	4310
H884967		16.95	2.83	0.18	0.3	0.042	0.20	8.3	2.0	1.35	1550	11.95	0.04	1.1	128.0	1680
H884968		>50	5.04	1.22	0.3	4.49	0.16	18.9	1.7	0.09	555	3.54	0.04	4.1	51.9	1000
H884969		44.5	10.45	0.64	1.8	0.120	1.39	27.9	3.4	0.39	525	18.05	0.04	1.9	748	6820
H884970		>50	3.23	1.10	0.1	0.098	0.03	248	1.0	0.13	138	7.41	0.01	0.8	34.1	850
H884971		42.8	8.10	0.84	0.7	0.019	0.34	81.8	2.0	0.29	1020	149.0	0.02	2.5	292	6980
H884972		>50	7.16	0.77	0.6	0.029	0.53	68.7	2.6	0.27	251	161.0	0.02	0.9	262	6570
H884973		33.5	26.5	0.47	0.7	0.177	3.34	40.8	11.3	0.48	44	8.26	0.13	4.2	134.0	3070
H884974		>50	3.99	1.33	0.3	0.014	0.07	57.4	0.8	0.30	268	3.94	0.01	0.7	664	3590
H884975		41.3	23.8	0.61	0.5	0.658	0.52	8.6	5.0	0.32	852	9.80	0.03	1.3	214	2710
H884976		41.3	8.01	0.57	0.5	0.069	0.51	9.3	3.2	0.34	322	24.8	0.02	1.2	151.5	1980
H884977		40.0	12.75	0.59	0.7	0.075	0.98	18.3	5.2	0.41	1700	20.1	0.03	1.7	151.0	1680

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H885088		26.6	73.2	<0.002	0.03	11.10	20.8	4	2.7	15.1	0.84	0.05	3.2	0.499	1.96	3.1
H885089		64.3	97.3	<0.002	0.03	9.77	33.2	3	1.9	20.6	0.52	<0.05	5.7	0.321	0.57	1.9
H885090		95.0	74.4	<0.002	0.11	8.03	4.1	4	7.8	36.6	5.24	<0.05	27.9	0.060	0.95	10.3
H885091		102.5	16.6	<0.002	0.48	14.30	5.6	9	0.7	20.3	0.19	0.05	3.2	0.108	1.98	8.4
H885092		717	5.3	<0.002	0.05	3170	2.2	4	0.8	35.7	<0.05	0.39	1.1	0.005	0.52	7.9
H885093		81.4	128.5	<0.002	0.04	39.3	40.8	23	2.6	15.3	0.60	0.06	5.2	0.377	1.32	8.6
H885094		415	21.4	<0.002	0.06	48.3	3.0	4	1.5	12.4	0.08	0.40	1.1	0.029	0.60	15.6
H885095		36.9	14.1	<0.002	0.13	43.5	7.0	6	0.6	28.7	0.11	0.08	1.8	0.038	0.44	9.2
H885096		18.8	2.4	<0.002	0.01	17.45	0.9	3	0.2	54.8	<0.05	0.05	0.3	<0.005	0.09	4.0
H885097		2520	0.9	0.006	0.04	32.3	0.3	45	0.2	11.3	<0.05	0.13	0.2	0.005	0.05	8.6
H885098		242	0.6	<0.002	0.01	3.58	0.6	3	<0.2	83.0	<0.05	0.05	<0.2	<0.005	0.17	1.1
H885099		69.8	3.7	<0.002	0.07	13.50	0.6	4	0.4	23.8	<0.05	0.06	0.3	0.009	0.97	17.7
H885100		26.8	6.0	0.002	0.04	10.25	1.0	2	0.4	44.3	0.05	<0.05	1.0	0.020	1.27	5.5
H884951		251	1.9	<0.002	0.04	132.5	1.4	8	<0.2	36.5	<0.05	0.10	0.2	0.006	0.58	6.5
H884952		1180	5.1	0.003	0.22	123.0	2.1	37	1.1	147.5	0.06	1.06	0.6	0.015	1.41	19.7
H884953		>10000	4.4	<0.002	1.70	104.0	3.0	3	22.0	36.9	<0.05	<0.05	1.1	<0.005	0.40	24.2
H884954		>10000	1.2	<0.002	0.38	378	2.3	5	3.3	4.0	<0.05	0.11	1.8	<0.005	0.23	37.7
H884955		1935	7.1	0.014	0.09	80.2	3.7	11	3.4	5.1	0.09	2.09	2.0	0.028	0.53	24.9
H884956		7530	20.6	<0.002	0.15	409	3.5	8	122.5	133.5	0.11	1.27	1.4	0.051	1.77	23.3
H884957		>10000	3.9	<0.002	1.28	199.0	3.7	2	5.1	34.6	<0.05	<0.05	0.5	<0.005	0.40	6.7
H884958		>10000	25.0	0.002	1.27	308	6.2	2	7.2	62.4	0.16	0.09	1.2	0.058	0.43	33.6
H884959		>10000	6.8	<0.002	0.08	388	2.1	11	2.3	4.7	<0.05	0.06	0.5	0.015	1.56	13.0
H884960		>10000	1.8	0.003	0.05	581	1.9	7	1.4	2.4	<0.05	0.15	0.6	0.007	0.45	24.5
H884961		1605	54.0	0.007	0.07	16.10	3.1	5	9.8	9.6	0.07	0.34	2.7	0.026	0.80	13.1
H884962		>10000	2.7	0.005	0.42	527	1.7	11	6.7	7.9	0.05	0.23	1.6	0.005	0.52	31.9
H884963		3170	1.6	<0.002	0.05	10.45	1.3	5	0.3	5.9	<0.05	0.10	0.6	0.007	0.11	13.3
H884964		2480	49.4	<0.002	0.56	9.94	12.2	5	4.0	66.7	0.38	0.07	3.1	0.097	3.04	11.3
H884965		539	16.6	<0.002	0.09	40.4	3.6	3	2.0	9.9	0.26	0.06	1.3	0.065	0.59	1.6
H884966		193.0	15.2	<0.002	0.66	79.6	6.0	9	1.0	151.5	0.11	0.52	2.8	0.046	1.90	5.5
H884967		656	7.9	<0.002	0.06	15.00	1.7	5	0.7	18.2	0.05	0.13	0.7	0.019	0.55	4.0
H884968		2090	13.9	<0.002	0.10	74.7	1.7	3	>500	12.2	0.21	1.17	0.9	0.027	0.54	2.5
H884969		134.0	35.3	<0.002	0.04	22.2	20.0	3	9.0	8.1	0.10	0.07	3.1	0.066	0.68	6.4
H884970		1980	1.1	<0.002	0.05	26.7	0.6	6	11.5	4.5	<0.05	9.88	<0.2	0.005	0.17	6.0
H884971		69.3	13.5	<0.002	0.02	11.70	1.6	11	1.7	13.4	0.14	0.12	1.6	0.036	0.36	50.3
H884972		33.4	12.9	<0.002	0.63	30.1	2.2	17	0.9	91.0	<0.05	0.19	3.9	0.019	0.87	18.7
H884973		70.9	79.8	<0.002	0.06	41.2	29.6	3	1.6	21.3	0.24	0.06	4.4	0.129	0.93	6.3
H884974		827	1.7	<0.002	0.01	67.6	3.1	6	0.6	5.5	0.06	<0.05	0.2	0.006	0.34	4.9
H884975		817	17.2	<0.002	0.06	33.6	20.2	8	1.2	5.2	0.08	0.11	25.3	0.030	0.52	36.8
H884976		188.0	17.6	0.003	0.05	10.05	4.6	3	0.5	4.9	0.06	0.07	4.5	0.026	0.47	20.9
H884977		197.5	31.7	<0.002	0.04	8.04	8.5	4	0.7	7.9	0.10	0.06	13.3	0.047	2.04	7.8

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

Project: RAU

Finalized Date: 5-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100631

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Pb-VOL70 Pb % 0.01
H885088		160	5.4	10.4	138	67.6				
H885089		286	1.3	18.6	219	27.5				
H885090		44	1.2	33.6	552	170.0				
H885091		61	0.7	26.7	866	26.5				
H885092		28	0.2	13.1	2870	7.6		186		
H885093		409	1.6	14.3	79	69.7				
H885094		71	0.3	11.4	3580	16.6				
H885095		101	0.8	20.8	191	22.9				
H885096		22	0.2	8.6	95	4.2				
H885097		10	0.7	3.7	1500	6.2				
H885098		6	0.1	1.7	341	2.4				
H885099		29	0.2	6.2	2460	8.8				
H885100		41	0.2	4.6	849	13.4				
H884951		37	0.1	19.5	4800	22.0				
H884952		220	41.0	12.3	5350	12.4				
H884953		20	3.7	10.1	3350	3.8		389	15.35	
H884954		34	55.9	4.6	>10000	2.0	1.090	125	6.60	
H884955		85	2210	10.7	4020	23.1				
H884956		80	44.4	17.0	5530	30.9				
H884957		30	7.6	17.5	3340	1.7		276	16.50	
H884958		42	9.2	26.1	3930	38.3		483	>20.0	35.74
H884959		17	5.6	19.6	>10000	18.0	1.130		1.535	
H884960		33	123.5	9.3	>10000	2.5	1.350		1.965	
H884961		119	940	6.7	3760	30.7				
H884962		20	60.8	4.3	10000	3.1	0.997	210	9.80	
H884963		21	64.4	7.0	3480	2.7				
H884964		205	6.2	28.8	4500	61.8				
H884965		166	3.7	32.5	4910	42.6				
H884966		629	3.5	46.0	901	26.2				
H884967		148	28.5	19.3	622	11.8				
H884968		58	35.9	19.8	9830	14.8				
H884969		211	13.6	23.8	902	77.0				
H884970		33	60.8	6.0	3440	0.9				
H884971		114	2.9	63.8	222	22.9				
H884972		171	1.1	31.0	84	26.1				
H884973		336	2.4	10.3	4060	28.5				
H884974		307	4.5	67.9	>10000	6.4	1.205			
H884975		182	1.9	19.0	4040	15.9				
H884976		162	5.8	12.7	4260	16.2				
H884977		160	0.7	12.4	1200	25.3				

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 5-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100631

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884978		0.12	0.02	1.59	0.19	491	70	0.16	4.70	0.11	4.39	5.01	4.9	4	0.15	787
H884979		0.38	0.09	34.4	0.13	35	4070	0.10	44.6	17.60	30.1	8.20	1.8	5	0.22	20.7
H884980		0.74	<0.01	0.23	0.21	11.9	20	0.15	0.37	0.23	0.12	1.24	1.1	13	0.46	78.0
H884981		0.80	<0.01	1.16	0.53	3.8	180	1.06	7.25	2.88	0.15	21.4	1.3	47	0.35	260
H884982		1.10	<0.01	0.23	1.99	2.7	120	2.39	6.05	6.57	0.05	55.0	2.3	54	1.04	228
H884983		0.86	<0.01	1.07	2.94	3.1	50	1.15	11.90	2.67	0.07	5.22	147.0	16	1.52	2230
H884984		0.70	<0.01	1.15	3.81	4.1	30	1.71	3.51	4.21	0.08	16.60	42.2	64	0.56	1375
H884985		1.00	<0.01	0.53	0.27	<5	10	1.80	5.08	12.45	<0.02	5.01	19.4	62	0.10	1825
H884986		0.86	0.02	0.56	0.85	16.1	130	0.37	54.3	1.20	0.05	17.95	1.9	45	2.67	160.5
H884987		0.92	0.10	0.24	0.21	0.9	20	0.14	1550	0.33	0.03	2.07	6.0	11	0.27	120.0
H884988		0.34	0.07	0.34	3.20	1.9	120	2.41	61.9	1.65	<0.02	30.6	2.4	262	3.38	224
H884989		1.26	0.09	0.61	1.26	<0.2	20	5.07	107.5	4.58	<0.02	42.5	129.0	13	1.61	1140
H884990		0.72	<0.01	0.24	8.27	2.1	50	3.65	2.73	7.61	0.11	117.0	13.4	234	1.77	228
H884992		0.98	<0.01	0.13	7.41	73.8	710	4.37	1.47	0.13	<0.02	21.1	3.8	63	5.71	28.7
H884993		0.62	0.08	6.35	0.52	4880	210	0.24	907	0.64	10.25	7.68	4.7	25	0.76	68.8
H237992		0.82	0.11	3.80	0.27	5240	120	0.29	8.18	7.87	23.1	4.57	2.1	5	0.58	23.2
H237993		0.60	0.08	1.69	1.33	2670	1560	0.50	22.5	2.88	32.2	42.9	15.9	38	0.58	23.2
H884991		0.50	<0.01	0.54	0.30	145.5	30	0.25	12.10	0.08	0.36	4.79	1.6	7	0.48	25.5
H237994		0.98	0.17	16.15	0.27	>10000	3550	0.92	2610	0.59	184.0	6.76	5.5	12	0.07	19.0
H237995		0.88	0.02	78.9	0.01	37.4	20	<0.05	4.57	0.01	3.04	0.17	0.2	13	0.08	11.2
H237996		1.02	<0.01	2.01	9.15	222	490	0.78	6.97	3.07	36.2	27.9	35.1	251	1.05	207
H237997		0.18	<0.01	0.64	0.97	6.2	520	0.93	1.15	0.02	0.49	8.10	0.5	124	0.58	10.1
H237998		0.26	<0.01	0.42	3.33	24.4	650	1.78	1.56	0.02	0.30	45.5	0.2	58	2.77	18.2
H237999		0.34	<0.01	0.22	4.39	6.2	760	2.29	0.37	0.01	0.14	38.3	0.1	54	3.29	12.4
H238000		0.08	<0.01	0.15	7.47	545	400	0.26	1.93	2.36	4.15	24.3	54.1	333	0.72	62.6

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Project: RAU

Finalized Date: 5-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100631

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H884978		>50	0.98	0.77	<0.1	0.056	0.05	2.3	0.7	0.09	99	8.31	<0.01	0.8	21.2	500
H884979		7.30	2.47	0.11	<0.1	8.72	0.03	5.0	1.4	0.44	36000	4.88	0.06	0.4	20.1	320
H884980		3.07	1.17	0.05	<0.1	0.053	0.05	0.5	3.1	0.05	133	0.60	0.01	0.2	3.7	30
H884981		33.9	7.94	0.84	1.7	0.141	0.13	13.1	2.9	1.30	625	15.80	0.06	7.2	1.5	6150
H884982		5.99	13.30	0.12	2.4	0.180	0.25	33.4	8.6	2.87	1010	6.90	0.21	10.1	2.7	1210
H884983		34.8	9.36	0.98	1.3	0.088	0.43	2.7	2.8	0.57	366	18.10	0.24	4.4	131.5	750
H884984		17.35	13.90	0.44	1.6	0.084	0.04	8.5	5.0	0.97	286	144.5	0.34	9.4	104.0	720
H884985		15.05	5.12	0.43	0.2	0.431	0.02	2.9	5.8	3.87	2570	23.0	0.06	0.6	22.9	7900
H884986		34.2	8.31	0.59	0.6	0.076	0.31	12.4	4.4	0.26	214	37.1	0.14	2.7	6.9	>10000
H884987		11.75	1.66	0.16	0.1	0.965	0.09	1.3	3.1	0.33	16050	10.45	0.01	0.4	34.5	120
H884988		5.44	16.75	0.19	2.5	0.256	1.21	26.7	16.0	0.29	273	36.5	0.04	7.8	5.2	5660
H884989		36.4	9.79	0.86	0.5	0.410	0.07	26.4	4.9	1.64	1740	23.1	0.28	2.4	772	350
H884990		4.88	31.9	0.26	2.2	0.105	0.16	88.2	7.2	1.39	554	56.2	0.69	16.2	81.1	1200
H884992		3.74	18.50	0.11	1.3	0.478	3.57	10.8	36.9	0.54	1460	5.75	0.12	3.5	42.4	790
H884993		>50	2.83	0.69	0.2	0.052	0.15	9.1	2.3	0.30	497	51.0	0.01	1.8	65.4	1710
H237992		36.2	4.65	0.55	0.1	29.2	0.14	4.0	1.1	0.27	74600	3.86	0.01	0.6	6.2	10
H237993		35.8	6.90	0.48	2.1	0.123	0.09	26.9	2.4	0.51	557	5.88	0.13	2.0	73.9	1070
H884991		5.09	1.56	0.07	0.1	0.641	0.13	2.7	2.7	0.03	2300	7.92	0.01	0.3	41.0	50
H237994		>50	3.82	0.57	0.6	0.021	0.04	5.3	0.7	0.11	544	47.3	0.07	1.0	98.3	1720
H237995		0.47	0.18	0.08	<0.1	0.711	<0.01	<0.5	1.5	<0.01	64	7.30	<0.01	0.1	1.6	60
H237996		7.34	25.2	0.20	0.2	0.078	0.38	12.6	113.5	0.13	768	8.03	3.46	1.9	239	1220
H237997		0.33	2.77	0.05	0.5	0.013	0.35	10.7	6.6	0.10	38	1.95	0.04	1.1	4.4	130
H237998		0.30	10.00	0.11	1.6	0.025	1.63	31.6	25.8	0.34	12	16.25	0.03	10.3	4.1	430
H237999		0.23	13.15	0.11	1.6	0.011	2.11	25.5	35.8	0.37	11	12.90	0.05	9.4	5.0	200
H238000		8.53	19.65	0.16	0.2	0.063	0.37	11.2	133.0	3.17	1020	2.00	1.79	2.8	276	1010

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CERTIFICATE OF ANALYSIS VA09100631

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H884978		652	1.9	<0.002	0.04	30.7	0.5	5	0.5	1.5	<0.05	<0.05	0.3	0.005	0.08	15.4
H884979		2340	1.7	<0.002	0.01	14.15	0.3	2	8.6	25.5	<0.05	<0.05	0.2	<0.005	0.33	1.5
H884980		39.5	6.8	0.009	0.17	0.71	0.3	5	1.1	5.5	<0.05	<0.05	0.2	<0.005	0.18	0.3
H884981		140.5	11.9	0.008	1.85	0.59	3.1	85	3.0	27.5	0.42	0.87	1.1	0.089	0.14	2.6
H884982		14.6	39.1	0.048	0.44	0.90	5.2	14	4.1	67.5	0.69	<0.05	3.4	0.131	0.34	5.3
H884983		11.7	35.1	0.170	>10.0	0.10	3.4	176	2.1	177.0	0.13	1.47	0.4	0.075	0.21	2.6
H884984		268	4.4	0.362	>10.0	0.53	9.7	66	5.7	211	0.49	0.77	1.8	0.264	0.11	18.0
H884985		4.6	0.4	0.082	6.26	0.12	10.1	84	1.9	17.6	<0.05	0.47	0.4	0.015	0.40	6.8
H884986		13.9	39.7	0.025	3.84	0.25	2.6	69	2.6	47.6	0.16	1.00	2.2	0.074	0.37	2.5
H884987		17.7	11.5	0.008	0.31	2.89	2.9	13	2.6	3.3	<0.05	11.95	<0.2	<0.005	0.05	0.4
H884988		7.5	179.0	0.100	0.57	0.65	9.2	20	25.6	38.8	0.50	0.95	2.7	0.196	0.83	6.5
H884989		4.6	8.8	0.104	>10.0	0.09	4.3	105	3.6	27.2	0.22	2.68	1.8	0.053	0.46	4.7
H884990		13.7	27.9	0.182	1.73	0.21	13.3	16	22.1	328	1.19	0.10	13.2	0.572	0.15	7.8
H884992		796	428	0.003	0.15	0.29	11.4	3	38.7	9.4	0.24	0.06	6.7	0.183	1.71	1.8
H884993		172.0	7.9	<0.002	0.08	77.2	3.1	6	3.5	3.6	<0.05	2.32	0.7	0.022	0.25	16.4
H237992		1770	16.7	<0.002	0.03	6.82	0.4	1	22.1	144.5	<0.05	<0.05	0.3	0.005	0.10	2.7
H237993		101.0	4.8	<0.002	0.05	3.83	5.3	4	1.5	18.4	0.10	1.46	3.7	0.036	0.11	6.6
H884991		34.7	16.2	<0.002	0.05	1.56	0.6	4	2.5	2.5	<0.05	0.32	0.5	0.006	0.10	0.3
H237994		2000	2.1	0.019	0.12	85.6	1.1	13	28.3	21.8	<0.05	30.3	1.2	0.011	0.42	23.1
H237995		>10000	0.2	<0.002	0.32	54.6	0.1	12	1.2	1.0	<0.05	0.57	<0.2	<0.005	0.07	0.5
H237996		101.5	8.3	<0.002	0.07	20.5	26.2	15	0.5	234	0.11	0.12	1.2	0.087	2.09	5.0
H237997		105.0	14.6	<0.002	0.01	2.74	4.5	4	0.3	17.5	0.06	<0.05	1.1	0.036	0.38	3.0
H237998		19.9	74.6	<0.002	0.04	2.53	7.2	4	1.5	8.2	0.68	0.11	5.8	0.226	3.04	3.5
H237999		16.4	92.8	<0.002	0.02	1.81	7.4	5	1.5	33.7	0.53	0.05	6.5	0.241	3.52	4.4
H238000		13.4	10.8	<0.002	0.02	4.03	22.4	2	0.4	108.5	0.18	<0.05	1.1	0.145	0.19	0.6

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 5-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100631

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Pb-VOL70 Pb % 0.01
H884978		29	2.0	2.8	3300	1.5				
H884979		12	1.6	4.8	7880	1.5				
H884980		15	940	0.6	104	<0.5				
H884981		154	263	9.6	75	65.8				
H884982		155	1510	30.6	63	99.4				
H884983		91	10.8	15.2	27	45.9				
H884984		357	255	36.2	41	50.6				
H884985		491	3440	14.6	141	5.7				
H884986		99	770	10.3	18	22.6				
H884987		10	570	16.2	33	1.4				
H884988		233	318	27.0	16	96.9				
H884989		381	2740	14.2	50	26.9				
H884990		759	14.3	81.8	53	69.3				
H884992		109	16.9	5.8	15	40.4				
H884993		44	20.2	17.2	390	9.1				
H237992		5	1.7	2.3	4640	3.2				
H237993		40	36.9	9.6	>10000	83.3	1.170			
H884991		4	9.0	0.9	108	1.9				
H237994		58	2080	5.7	>10000	19.0	1.355			
H237995		<1	3.1	0.1	412	<0.5			1.840	
H237996		175	6.2	7.7	976	5.4				
H237997		334	0.6	6.2	20	24.5				
H237998		1200	2.0	6.5	19	71.6				
H237999		1510	1.6	9.2	9	67.5				
H238000		156	1.9	3.8	268	8.4				

***** See Appendix Page for comments regarding this certificate *****

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 5-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100631

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

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Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE VA09100630

Project: RAU

P.O. No.:

This report is for 223 Soil samples submitted to our lab in Vancouver, BC, Canada on 14-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 29-SEP-2009
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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68625		0.20	<0.001	0.2	1.54	15	<10	210	<0.5	<2	0.56	<0.5	7	26	20	2.67
CC68626		0.18	0.009	1.0	0.62	15	<10	150	<0.5	<2	12.25	1.4	3	14	18	1.47
CC68627		0.20	0.005	0.7	0.80	20	<10	130	<0.5	<2	10.20	1.4	5	17	17	1.85
CC68628		0.18	0.002	<0.2	0.98	17	<10	140	<0.5	<2	6.80	0.6	6	20	16	2.05
CC68629		0.26	0.001	1.9	0.38	32	<10	80	<0.5	<2	11.40	6.1	4	9	17	1.91
CC68630		0.26	0.006	0.7	0.52	26	<10	230	<0.5	<2	12.30	1.5	4	13	12	1.49
CC68631		0.20	0.010	0.7	1.06	36	<10	160	0.5	<2	3.58	0.7	9	21	25	2.59
CC68632		0.18	0.164	3.3	0.37	739	<10	240	<0.5	302	12.05	5.2	5	12	39	4.40
CC68633		0.18	0.016	0.8	0.59	33	<10	160	<0.5	11	12.30	1.3	3	12	19	1.32
CC68634		0.20	0.006	0.2	0.24	16	<10	60	<0.5	2	13.65	<0.5	1	5	9	0.54
CC68635		0.14	<0.001	<0.2	0.11	9	<10	30	<0.5	<2	18.0	<0.5	<1	4	6	0.34
CC68636		0.16	0.011	<0.2	0.20	14	<10	80	<0.5	<2	16.6	0.5	1	6	7	0.52
CC68637		0.20	0.009	<0.2	0.86	30	<10	110	0.5	<2	10.25	0.7	6	16	19	2.01
CC68638		0.20	0.005	<0.2	0.25	11	<10	80	<0.5	<2	18.7	<0.5	1	7	9	0.44
CC68639		0.20	0.353	8.1	0.56	1630	<10	390	<0.5	205	8.54	7.8	8	22	103	9.62
CC68640		0.16	0.004	0.6	0.14	19	<10	50	<0.5	<2	16.4	0.6	1	6	5	0.49
CC68641		0.18	0.001	0.2	0.27	21	<10	40	<0.5	<2	16.3	<0.5	2	8	6	0.66
CC68642		0.18	0.016	0.5	0.85	42	<10	150	0.5	2	9.25	1.3	7	19	20	2.29
CC68643		0.18	0.033	0.4	0.93	22	<10	120	<0.5	<2	10.00	0.8	6	17	16	1.98
CC68644		0.18	0.335	10.0	0.80	1985	<10	470	0.5	230	6.02	9.8	9	30	126	11.25
CC68645		0.20	0.023	0.5	0.62	38	<10	170	<0.5	<2	12.30	1.1	4	14	11	1.56
CC68646		0.16	0.010	0.4	0.33	24	<10	70	<0.5	<2	13.65	0.8	2	9	11	0.77
CC68647		0.16	0.002	0.3	0.46	35	<10	110	0.5	<2	7.99	0.8	7	10	13	1.68
CC68648		0.20	0.003	0.2	1.31	24	<10	180	0.6	<2	4.51	1.2	9	24	19	2.32
CC68649		0.28	0.014	0.5	0.35	26	<10	310	<0.5	<2	12.35	1.0	8	7	17	1.76
CC68650		0.22	0.012	0.6	0.80	49	<10	170	<0.5	<2	12.00	0.6	16	30	31	2.40
CC68651		0.14	<0.001	<0.2	0.16	5	<10	40	<0.5	<2	15.8	<0.5	<1	3	2	0.31
CC68652		0.16	0.004	0.2	0.50	<2	<10	90	<0.5	<2	13.20	<0.5	2	8	6	0.81
CC68653		0.20	<0.001	<0.2	0.31	30	<10	210	<0.5	<2	12.95	<0.5	9	5	11	1.57
CC68654		0.18	<0.001	<0.2	0.10	4	<10	40	<0.5	<2	17.5	<0.5	<1	2	1	0.19
CC68655		0.20	<0.001	<0.2	0.13	3	<10	20	<0.5	<2	17.9	<0.5	<1	2	1	0.20
CC68656		0.18	0.003	<0.2	0.10	3	<10	20	<0.5	<2	17.1	<0.5	<1	2	1	0.19
CC68657		0.18	0.001	<0.2	0.52	8	<10	100	<0.5	<2	10.95	0.9	3	9	9	0.99
CC68658		0.18	0.006	<0.2	0.78	6	<10	100	<0.5	<2	6.55	0.7	4	11	10	1.19
CC68659		0.18	0.002	0.3	0.41	71	<10	260	<0.5	<2	11.40	2.6	18	7	34	3.97
CC68547		0.20	0.003	0.2	0.60	17	<10	90	<0.5	<2	12.15	1.3	4	9	10	1.23
CC68548		0.14	0.002	0.3	0.17	7	<10	90	<0.5	<2	14.7	2.1	<1	3	3	0.48
CC68549		0.20	<0.001	0.2	0.39	9	<10	160	<0.5	<2	12.95	1.6	2	6	5	0.83
CC68550		0.18	<0.001	<0.2	0.10	10	<10	140	<0.5	<2	18.4	1.5	<1	2	1	0.40
CC68551		0.22	0.001	<0.2	0.09	<2	<10	50	<0.5	<2	18.3	<0.5	<1	2	1	0.19

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68625		<10	<1	0.09	10	0.48	373	1	0.02	19	340	27	0.04	3	3	14
CC68626		<10	<1	0.10	10	8.35	1545	2	0.03	9	650	203	0.05	2	1	53
CC68627		<10	<1	0.07	10	6.91	1465	2	0.03	13	760	226	0.05	4	1	45
CC68628		<10	<1	0.10	10	4.36	682	2	0.03	15	1100	65	0.08	<2	1	39
CC68629		<10	<1	0.09	10	7.65	1605	5	0.02	14	1110	847	0.05	11	1	57
CC68630		<10	<1	0.05	10	8.34	1360	2	0.03	15	1140	129	0.06	<2	1	69
CC68631		<10	1	0.08	10	1.97	857	3	0.02	29	1390	132	0.11	4	1	28
CC68632		<10	<1	0.07	10	8.11	2070	1	0.02	24	840	758	0.03	12	2	49
CC68633		<10	<1	0.05	10	8.30	650	1	0.03	12	1170	152	0.06	3	1	62
CC68634		<10	<1	0.02	<10	8.96	515	2	0.02	6	1450	35	0.12	<2	<1	60
CC68635		<10	<1	0.01	<10	11.60	296	2	0.02	4	900	11	<0.01	<2	<1	70
CC68636		<10	<1	0.02	<10	10.65	565	3	0.02	6	820	40	<0.01	<2	<1	71
CC68637		<10	<1	0.07	10	7.03	523	2	0.03	26	810	84	0.06	<2	2	49
CC68638		<10	<1	0.06	10	11.65	298	2	0.02	6	5170	10	<0.01	<2	1	78
CC68639		<10	<1	0.07	10	5.69	3090	2	0.02	44	1330	1660	0.06	38	2	41
CC68640		<10	1	0.02	<10	10.55	363	2	0.02	1	320	45	0.05	<2	1	68
CC68641		<10	<1	0.02	<10	10.25	427	2	0.01	7	430	24	0.05	<2	1	59
CC68642		<10	<1	0.06	10	5.82	798	3	0.01	33	1510	107	0.11	2	1	43
CC68643		<10	<1	0.06	10	6.63	564	2	0.01	28	940	76	0.06	<2	2	49
CC68644		<10	<1	0.11	10	3.62	3830	3	0.01	59	1690	1850	0.06	33	3	30
CC68645		<10	<1	0.06	10	8.10	844	2	0.01	17	890	146	0.04	<2	1	61
CC68646		<10	<1	0.04	<10	8.75	711	1	0.01	7	910	68	0.10	<2	<1	50
CC68647		<10	1	0.07	10	4.59	1875	2	<0.01	15	1100	35	0.08	<2	1	37
CC68648		<10	<1	0.07	10	2.26	1390	3	0.01	23	1810	46	0.16	<2	1	26
CC68649		<10	<1	0.08	<10	8.20	942	1	0.01	21	680	131	0.05	2	1	55
CC68650		<10	<1	0.06	<10	8.25	628	<1	<0.01	62	850	52	0.06	<2	2	34
CC68651		<10	<1	0.01	<10	10.00	325	<1	<0.01	3	560	12	0.05	<2	<1	31
CC68652		<10	<1	0.03	<10	7.99	479	<1	0.01	7	580	25	0.05	<2	1	29
CC68653		<10	<1	0.07	10	8.73	199	<1	0.01	10	1270	18	0.02	<2	1	37
CC68654		<10	<1	0.01	<10	11.35	234	<1	<0.01	2	320	10	<0.01	<2	<1	34
CC68655		<10	<1	0.01	<10	11.60	171	<1	<0.01	1	500	6	<0.01	<2	<1	31
CC68656		<10	<1	0.01	<10	10.95	233	<1	<0.01	2	510	19	0.03	<2	<1	31
CC68657		<10	<1	0.05	<10	7.43	536	<1	0.01	11	540	27	0.02	<2	1	28
CC68658		<10	<1	0.04	<10	3.85	647	<1	<0.01	10	950	19	0.09	<2	1	17
CC68659		<10	<1	0.11	10	7.57	919	1	0.01	26	1680	263	0.01	2	1	50
CC68547		<10	<1	0.05	<10	8.19	679	<1	0.01	10	850	61	0.04	<2	1	32
CC68548		<10	1	0.02	<10	9.49	687	<1	0.01	3	390	31	0.02	2	<1	27
CC68549		<10	<1	0.03	<10	8.74	1555	<1	0.01	5	940	29	0.04	<2	1	33
CC68550		<10	<1	0.01	<10	11.90	1510	<1	0.01	3	410	28	<0.01	<2	<1	44
CC68551		<10	<1	0.01	<10	11.90	240	<1	0.01	2	360	8	<0.01	<2	<1	38

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Project: RAU

Finalized Date: 29-SEP-2009
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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC68625		<20	0.04	<10	<10	68	<10	100
CC68626		<20	0.02	<10	<10	36	<10	433
CC68627		<20	0.02	<10	<10	43	<10	450
CC68628		<20	0.02	<10	<10	44	<10	189
CC68629		<20	0.01	<10	<10	27	<10	1270
CC68630		<20	0.01	<10	<10	52	<10	375
CC68631		<20	0.02	<10	<10	88	<10	211
CC68632		<20	0.01	<10	<10	23	30	1400
CC68633		<20	0.01	<10	<10	47	<10	244
CC68634		<20	<0.01	<10	10	43	<10	111
CC68635		<20	<0.01	<10	<10	22	<10	46
CC68636		<20	<0.01	<10	<10	28	<10	124
CC68637		<20	0.02	<10	<10	49	<10	201
CC68638		<20	<0.01	<10	30	44	<10	84
CC68639		<20	0.01	<10	<10	39	30	2090
CC68640		<20	<0.01	<10	<10	5	<10	163
CC68641		<20	0.01	<10	10	19	<10	65
CC68642		<20	0.01	<10	<10	59	<10	273
CC68643		<20	0.02	<10	<10	48	<10	173
CC68644		<20	0.01	<10	<10	47	30	2410
CC68645		<20	0.02	<10	10	45	<10	218
CC68646		<20	0.01	<10	10	33	<10	173
CC68647		<20	0.01	<10	<10	34	<10	176
CC68648		<20	0.02	<10	<10	67	<10	194
CC68649		<20	0.01	<10	<10	19	<10	426
CC68650		<20	<0.01	<10	<10	26	<10	268
CC68651		<20	<0.01	<10	10	8	<10	53
CC68652		<20	0.01	<10	<10	24	<10	94
CC68653		<20	0.01	<10	<10	20	<10	96
CC68654		<20	<0.01	<10	10	6	<10	44
CC68655		<20	<0.01	<10	10	4	<10	30
CC68656		<20	<0.01	<10	10	8	<10	47
CC68657		<20	0.02	<10	<10	21	<10	151
CC68658		<20	0.01	<10	<10	25	<10	156
CC68659		<20	0.01	<10	<10	34	<10	1305
CC68547		<20	0.02	<10	<10	21	<10	195
CC68548		<20	0.01	<10	10	8	<10	194
CC68549		<20	0.01	<10	10	19	<10	223
CC68550		<20	<0.01	<10	10	10	<10	213
CC68551		<20	<0.01	<10	10	7	<10	34

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

Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68552		0.18	<0.001	<0.2	0.21	<2	<10	40	<0.5	<2	14.80	<0.5	1	3	2	0.34
CC68553		0.20	<0.001	0.3	0.21	5	<10	40	<0.5	<2	10.75	0.5	1	4	3	0.40
CC68554		0.22	<0.001	<0.2	0.13	11	<10	30	<0.5	<2	16.5	<0.5	2	3	7	0.59
CC68555		0.16	0.003	0.3	0.15	23	<10	50	<0.5	<2	15.5	1.0	5	6	11	0.99
CC68556		0.18	<0.001	0.4	0.09	7	<10	20	<0.5	<2	16.8	<0.5	1	2	2	0.27
CC68557		0.22	<0.001	0.2	0.15	3	<10	40	<0.5	<2	15.7	<0.5	<1	3	2	0.32
CC68558		0.22	<0.001	0.5	0.11	15	<10	130	<0.5	<2	16.5	1.3	<1	3	4	0.52
CC68559		0.22	0.001	0.3	0.07	13	<10	70	<0.5	<2	17.9	0.5	<1	2	1	0.30
CC68560		0.18	0.006	0.3	0.18	21	<10	130	<0.5	<2	13.05	2.8	2	4	6	0.80
CC68561		0.20	0.002	0.5	0.41	87	<10	120	<0.5	2	11.85	1.2	4	9	15	1.68
CC68562		0.22	<0.001	1.1	0.12	20	<10	250	<0.5	<2	16.7	3.6	1	4	5	0.76
CC68563		0.24	0.010	0.7	0.32	35	<10	110	<0.5	<2	15.6	0.9	6	4	10	1.22
CC68564		0.30	0.007	0.5	0.30	57	<10	220	<0.5	<2	15.1	1.1	6	8	15	1.31
CC68565		0.18	0.001	0.5	0.17	95	<10	90	<0.5	5	15.8	1.6	1	5	13	1.53
CC68566		0.18	0.005	0.2	0.22	17	<10	60	<0.5	<2	14.30	0.7	1	5	6	0.83
CC68567		0.18	0.007	0.9	0.70	25	<10	120	<0.5	<2	8.46	1.9	4	13	23	1.73
CC68568		0.16	0.006	0.5	0.44	15	<10	190	<0.5	<2	9.56	1.0	4	8	12	1.26
CC68569		0.18	<0.001	<0.2	0.17	7	<10	60	<0.5	<2	15.3	<0.5	1	4	3	0.45
CC68570		0.16	<0.001	0.4	0.30	7	<10	100	<0.5	<2	10.60	0.5	3	9	8	0.86
CC68571		0.22	0.169	0.8	0.49	26	<10	170	<0.5	<2	8.60	2.7	8	10	19	2.22
CC68572		0.16	0.018	0.5	0.37	18	<10	90	<0.5	2	13.35	0.7	2	11	8	1.08
CC68573		0.18	0.007	0.8	0.47	21	<10	150	<0.5	<2	9.94	0.9	5	10	17	1.42
CC68574		0.16	0.009	0.4	0.30	12	<10	120	<0.5	<2	15.2	0.6	2	9	9	0.75
CC68575		0.18	0.008	0.2	0.23	16	<10	60	<0.5	<2	17.0	<0.5	2	7	6	0.84
CC68576		0.22	0.004	<0.2	0.21	16	<10	50	<0.5	<2	17.4	<0.5	1	6	6	0.58
CC68577		0.22	0.020	0.3	0.24	70	<10	70	<0.5	3	16.5	0.7	3	8	11	1.12
CC68578		0.16	0.006	0.2	0.79	26	<10	100	<0.5	<2	10.55	1.0	5	16	15	1.53
CC68579		0.18	0.010	0.9	0.40	26	<10	200	<0.5	<2	13.90	3.7	3	11	17	1.14
CC68580		0.22	0.005	0.5	0.93	27	<10	160	<0.5	<2	9.08	1.8	6	18	16	1.82
CC68581		0.16	0.009	0.9	0.81	25	<10	170	<0.5	<2	10.80	1.8	5	15	14	1.74
CC68582		0.20	0.003	<0.2	0.88	17	<10	110	<0.5	<2	7.61	0.6	7	19	16	2.07
CC68583		0.22	0.268	11.1	0.45	2180	<10	350	<0.5	153	9.33	5.5	13	20	133	10.45
CC68584		0.24	0.016	0.3	0.33	45	<10	60	<0.5	<2	15.9	0.7	4	8	12	1.24
CC68585		0.22	0.001	0.2	0.16	18	<10	40	<0.5	<2	17.5	<0.5	<1	4	3	0.46
CC68586		0.20	<0.001	<0.2	0.31	6	<10	50	<0.5	<2	16.7	<0.5	1	7	5	0.55
CC68587		0.20	0.003	0.2	0.48	10	<10	80	<0.5	<2	8.91	0.5	2	8	10	0.87
CC68588		0.22	0.019	0.5	0.23	15	<10	80	<0.5	<2	16.9	1.2	2	6	7	0.71
CC68589		0.18	0.024	0.9	1.09	25	<10	180	0.5	<2	9.66	1.7	6	19	18	2.13
CC68590		0.18	0.008	0.6	0.12	9	<10	70	<0.5	<2	18.1	0.6	1	6	2	0.42
CC68591		0.30	0.021	1.0	0.42	25	<10	150	<0.5	<2	13.10	1.3	4	10	14	1.44

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Project: RAU

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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68552		<10	1	0.01	<10	10.10	290	<1	<0.01	1	670	5	0.03	<2	<1	31
CC68553		<10	<1	0.01	<10	7.13	379	<1	<0.01	4	730	22	0.03	<2	<1	23
CC68554		<10	<1	0.02	<10	10.60	297	<1	<0.01	9	530	47	0.01	<2	1	37
CC68555		<10	<1	0.03	<10	9.93	390	<1	<0.01	18	520	86	0.01	3	1	35
CC68556		<10	<1	0.01	<10	10.85	223	<1	<0.01	3	410	30	<0.01	<2	<1	30
CC68557		<10	<1	0.01	<10	10.10	238	<1	<0.01	3	510	12	0.02	<2	<1	29
CC68558		<10	<1	0.01	<10	10.65	1185	<1	<0.01	5	310	84	0.01	<2	<1	35
CC68559		<10	<1	0.01	<10	11.60	734	<1	<0.01	3	210	40	<0.01	<2	<1	39
CC68560		<10	<1	0.02	<10	8.88	1250	<1	<0.01	8	410	120	0.01	3	1	29
CC68561		<10	<1	0.04	<10	8.03	866	1	0.01	17	680	159	0.03	3	1	30
CC68562		<10	<1	0.01	<10	10.75	2070	<1	0.01	8	350	280	<0.01	<2	<1	45
CC68563		<10	<1	0.06	10	10.10	388	<1	<0.01	13	780	146	0.01	<2	1	49
CC68564		<10	1	0.04	<10	9.55	762	<1	<0.01	23	560	337	0.01	2	1	51
CC68565		<10	<1	0.02	<10	10.25	1015	<1	<0.01	8	360	197	0.01	6	<1	37
CC68566		<10	<1	0.04	<10	9.72	621	<1	<0.01	7	390	110	0.02	<2	1	37
CC68567		<10	<1	0.08	10	5.41	1360	1	0.01	16	1030	185	0.05	<2	1	28
CC68568		<10	<1	0.09	<10	6.19	955	1	0.01	10	820	91	0.10	2	1	41
CC68569		<10	<1	0.02	<10	9.74	418	<1	<0.01	2	560	19	0.04	<2	<1	46
CC68570		<10	<1	0.05	<10	6.93	647	1	<0.01	6	850	32	0.10	<2	<1	38
CC68571		<10	<1	0.19	10	5.40	2640	1	<0.01	21	660	257	0.05	<2	1	40
CC68572		<10	<1	0.05	<10	8.83	1005	1	0.01	12	720	101	0.06	<2	1	57
CC68573		<10	<1	0.19	10	6.49	752	1	0.01	16	800	103	0.07	<2	1	41
CC68574		<10	<1	0.05	<10	9.52	529	1	0.01	11	630	90	0.04	<2	1	61
CC68575		<10	<1	0.03	<10	10.75	412	2	0.01	10	590	44	<0.01	2	1	68
CC68576		<10	<1	0.03	<10	11.05	321	1	<0.01	10	460	37	<0.01	<2	1	68
CC68577		<10	<1	0.03	<10	10.50	466	2	0.01	12	520	99	0.02	<2	1	68
CC68578		<10	<1	0.07	10	7.00	635	1	0.01	17	820	131	0.04	<2	1	46
CC68579		<10	<1	0.04	<10	9.05	1225	1	0.01	11	760	248	0.07	<2	1	70
CC68580		<10	<1	0.08	10	5.98	870	1	0.01	17	910	217	0.05	<2	1	43
CC68581		<10	1	0.13	10	7.05	1130	1	0.01	15	830	220	0.06	<2	1	48
CC68582		<10	1	0.11	10	4.91	691	2	0.01	19	950	46	0.05	<2	1	35
CC68583		<10	<1	0.10	10	6.32	2360	3	0.01	69	1280	1600	0.04	39	3	43
CC68584		<10	<1	0.04	<10	10.15	481	1	0.01	18	440	106	0.02	2	1	66
CC68585		<10	<1	0.01	<10	11.10	547	1	0.01	4	440	45	<0.01	<2	<1	63
CC68586		<10	<1	0.02	<10	10.40	291	1	0.01	10	1460	12	0.05	<2	1	72
CC68587		<10	<1	0.03	<10	5.49	890	3	<0.01	12	1190	26	0.13	<2	<1	42
CC68588		<10	<1	0.03	<10	10.30	827	1	0.01	9	2010	150	0.06	<2	1	66
CC68589		<10	<1	0.07	10	6.52	1085	2	0.01	24	1300	223	0.06	3	1	50
CC68590		<10	<1	0.01	<10	11.45	431	1	0.01	4	220	40	0.04	<2	1	75
CC68591		<10	<1	0.04	<10	8.74	1820	3	0.01	17	670	267	0.03	3	1	68

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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC68552		<20	0.01	<10	10	11	<10	39
CC68553		<20	0.01	<10	<10	12	<10	80
CC68554		<20	<0.01	<10	10	11	<10	200
CC68555		<20	<0.01	<10	10	13	<10	336
CC68556		<20	<0.01	<10	10	6	<10	113
CC68557		<20	<0.01	<10	10	6	<10	121
CC68558		<20	<0.01	<10	10	9	<10	323
CC68559		<20	<0.01	<10	10	7	<10	138
CC68560		<20	0.01	<10	10	16	<10	567
CC68561		<20	0.01	<10	<10	26	<10	479
CC68562		<20	<0.01	<10	10	31	<10	451
CC68563		<20	0.01	<10	10	15	<10	218
CC68564		<20	0.01	<10	10	26	<10	482
CC68565		<20	0.01	<10	10	14	<10	548
CC68566		<20	0.01	<10	<10	16	<10	171
CC68567		<20	0.01	<10	<10	38	<10	422
CC68568		<20	0.01	<10	<10	21	<10	282
CC68569		<20	<0.01	<10	10	10	<10	74
CC68570		<20	<0.01	<10	<10	23	<10	139
CC68571		<20	0.01	<10	<10	28	<10	822
CC68572		<20	0.01	<10	10	26	<10	237
CC68573		<20	0.01	<10	<10	29	<10	272
CC68574		<20	0.01	<10	10	24	<10	151
CC68575		<20	0.01	<10	10	26	<10	105
CC68576		<20	0.01	<10	10	24	<10	101
CC68577		<20	0.01	<10	10	26	<10	183
CC68578		<20	0.02	<10	<10	40	<10	260
CC68579		<20	0.01	<10	10	38	<10	534
CC68580		<20	0.01	<10	<10	44	<10	441
CC68581		<20	0.01	<10	<10	38	<10	564
CC68582		<20	0.01	<10	<10	47	<10	206
CC68583		<20	0.01	<10	10	32	10	1470
CC68584		<20	0.01	<10	10	25	<10	183
CC68585		<20	<0.01	<10	10	37	<10	173
CC68586		<20	<0.01	<10	10	36	<10	50
CC68587		<20	0.01	<10	<10	41	<10	134
CC68588		<20	<0.01	<10	20	38	<10	230
CC68589		<20	0.02	<10	<10	57	<10	420
CC68590		<20	<0.01	<10	10	5	<10	77
CC68591		<20	0.02	<10	10	26	<10	452

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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68592		0.18	0.004	0.4	0.50	16	<10	90	<0.5	<2	13.20	0.6	3	12	10	1.34
CC68593		0.18	0.003	0.3	0.19	3	<10	40	<0.5	<2	15.7	<0.5	<1	10	4	0.37
CC68594		0.22	0.042	0.2	0.63	21	<10	100	<0.5	<2	12.15	0.6	5	15	11	1.63
CC68595		0.28	0.013	0.6	0.32	18	<10	130	<0.5	<2	13.35	0.8	3	10	9	1.16
CC68596		0.20	0.007	1.0	0.76	22	<10	220	0.5	<2	4.53	2.3	6	15	20	2.36
CC68597		0.24	0.003	0.6	0.24	12	<10	90	<0.5	<2	16.1	1.7	1	5	9	0.85
CC68598		0.18	0.007	<0.2	0.17	5	<10	20	<0.5	<2	17.7	<0.5	<1	3	1	0.24
CC68599		0.24	0.001	<0.2	0.28	4	<10	40	<0.5	<2	17.2	<0.5	1	4	3	0.43
CC68600		0.18	0.003	0.2	0.58	22	<10	110	<0.5	<2	10.40	0.6	3	10	8	1.38
CC49947		0.18	0.003	0.7	0.64	82	<10	300	<0.5	<2	6.24	5.2	21	8	36	4.83
CC49948		0.16	0.004	0.3	0.19	3	<10	30	<0.5	<2	17.1	<0.5	1	3	2	0.31
CC49949		0.16	0.004	<0.2	1.57	15	<10	160	0.6	<2	3.28	0.9	7	23	13	2.45
CC49950		0.20	0.005	<0.2	0.83	9	<10	110	<0.5	<2	9.63	0.5	4	11	9	1.22
CC49951		0.16	0.003	<0.2	0.15	3	<10	30	<0.5	<2	17.1	<0.5	1	2	1	0.26
CC49952		0.18	0.006	<0.2	0.18	<2	<10	30	<0.5	<2	15.6	<0.5	<1	2	1	0.25
CC49953		0.18	0.004	<0.2	0.36	7	<10	50	<0.5	<2	16.3	<0.5	1	5	5	0.57
CC49954		0.20	0.015	<0.2	1.52	10	<10	220	0.5	<2	1.37	<0.5	8	24	14	2.42
CC49955		0.20	0.002	<0.2	0.11	4	<10	30	<0.5	<2	17.4	<0.5	<1	2	1	0.18
CC49956		0.18	0.005	0.3	1.41	14	<10	270	0.6	<2	3.74	1.2	10	21	17	2.67
CC49957		0.18	0.003	0.4	0.75	35	<10	240	<0.5	<2	1.35	0.7	19	12	30	5.04
CC49958		0.20	0.002	<0.2	0.21	<2	<10	80	<0.5	<2	16.4	0.5	<1	3	2	0.37
CC49959		0.20	0.004	<0.2	0.58	8	<10	130	<0.5	<2	10.75	0.7	3	10	9	1.16
CC49960		0.20	0.006	<0.2	0.32	7	<10	300	<0.5	<2	13.15	0.9	1	5	6	1.31
CC49961		0.18	0.009	<0.2	0.58	9	<10	170	<0.5	<2	10.05	0.7	3	10	10	1.21
CC49962		0.14	0.002	<0.2	0.53	2	<10	120	<0.5	<2	9.44	0.6	3	8	9	0.85
CC49963		0.20	0.002	<0.2	0.39	6	<10	110	<0.5	<2	12.30	<0.5	1	6	6	0.60
CC49964		0.22	0.003	<0.2	0.48	8	<10	150	<0.5	<2	10.55	<0.5	3	8	7	0.82
CC49965		0.14	0.003	0.2	0.78	7	<10	120	<0.5	<2	9.17	<0.5	4	11	9	1.18
CC49966		0.16	0.003	<0.2	0.60	6	<10	80	<0.5	<2	12.65	0.5	2	8	6	0.79
CC49967		0.18	0.005	<0.2	0.68	7	<10	100	<0.5	<2	10.25	0.6	3	10	10	1.06
CC49968		0.20	0.004	0.2	0.32	3	<10	50	<0.5	<2	15.4	0.5	2	5	5	0.57
CC49969		0.18	0.002	<0.2	0.40	8	<10	120	<0.5	<2	12.80	1.4	2	6	6	0.81
CC49970		0.16	0.004	<0.2	1.50	11	<10	150	0.6	<2	3.04	0.7	7	22	15	2.24
CC49971		0.16	0.003	<0.2	0.52	3	<10	70	<0.5	<2	10.40	0.8	3	17	12	0.87
CC49972		0.16	0.002	<0.2	1.97	15	<10	210	0.8	<2	1.56	1.7	9	28	14	2.80
CC49973		0.14	0.003	<0.2	0.42	4	<10	80	<0.5	<2	13.50	0.8	1	5	4	0.55
CC49974		0.20	0.004	<0.2	0.38	2	<10	100	<0.5	<2	13.45	0.7	1	6	5	0.69
CC49975		0.20	0.003	<0.2	0.42	4	<10	80	<0.5	<2	13.50	0.7	1	6	4	0.60
CC49976		0.16	0.002	<0.2	0.09	2	<10	20	<0.5	<2	18.1	<0.5	1	2	<1	0.18
CC49977		0.18	0.004	<0.2	0.62	5	<10	130	<0.5	<2	9.74	0.5	3	9	6	1.00

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To: ATAC RESOURCES LTD.
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Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68592		<10	<1	0.05	10	8.71	1150	2	0.01	11	1060	42	0.07	<2	1	60
CC68593		<10	<1	0.02	<10	9.88	395	<1	0.01	3	610	19	0.06	<2	<1	51
CC68594		<10	1	0.04	10	8.11	992	2	0.01	18	800	84	0.05	4	1	53
CC68595		<10	<1	0.07	10	8.90	1010	1	0.01	11	600	92	0.04	<2	1	55
CC68596		<10	<1	0.17	10	2.41	1895	1	0.01	19	1120	180	0.12	3	1	25
CC68597		<10	<1	0.04	<10	10.25	937	<1	0.01	8	480	122	0.04	2	1	57
CC68598		<10	<1	0.01	<10	11.35	172	<1	0.01	3	510	12	<0.01	<2	<1	38
CC68599		<10	<1	0.02	<10	11.05	341	<1	<0.01	3	580	16	0.04	<2	<1	37
CC68600		<10	<1	0.04	<10	6.94	807	1	0.02	11	600	88	0.07	<2	1	32
CC49947		<10	<1	0.11	20	3.39	2400	1	0.03	27	2600	427	0.10	6	1	33
CC49948		<10	<1	0.01	<10	11.05	359	<1	0.02	2	530	12	<0.01	<2	<1	29
CC49949		10	<1	0.07	10	2.15	899	1	0.03	19	870	36	0.09	<2	2	16
CC49950		<10	1	0.04	<10	6.57	651	<1	0.03	9	1080	16	0.09	<2	1	22
CC49951		<10	<1	0.01	<10	11.10	312	<1	0.02	2	430	8	<0.01	<2	<1	26
CC49952		<10	<1	0.01	<10	10.00	303	<1	0.02	1	650	9	0.05	<2	<1	21
CC49953		<10	1	0.03	<10	10.50	316	<1	0.02	7	700	19	<0.01	<2	<1	30
CC49954		<10	1	0.06	10	0.76	611	1	0.03	19	1170	28	0.11	2	2	16
CC49955		<10	<1	0.01	<10	11.25	212	<1	0.02	2	640	9	<0.01	<2	<1	29
CC49956		<10	<1	0.07	10	2.12	760	1	0.03	24	1610	36	0.10	<2	2	23
CC49957		<10	<1	0.17	20	0.42	303	1	0.02	39	1580	27	0.11	<2	1	17
CC49958		<10	1	0.01	<10	10.55	876	<1	0.02	2	530	18	0.06	<2	<1	24
CC49959		<10	1	0.05	<10	7.26	1415	<1	0.03	12	530	23	0.04	<2	1	25
CC49960		<10	<1	0.02	<10	8.95	5650	<1	0.03	7	440	38	0.04	<2	1	34
CC49961		<10	<1	0.05	<10	6.79	1510	<1	0.03	11	670	29	0.05	<2	1	26
CC49962		<10	<1	0.04	<10	6.37	647	<1	0.03	8	950	21	0.09	<2	1	22
CC49963		<10	<1	0.03	<10	8.28	250	<1	0.02	8	880	13	0.05	<2	1	25
CC49964		<10	<1	0.04	<10	7.11	278	<1	0.03	9	560	14	0.04	<2	1	22
CC49965		<10	1	0.05	<10	5.08	558	<1	0.03	9	960	19	0.11	<2	<1	21
CC49966		<10	<1	0.04	<10	8.03	314	<1	0.03	7	660	7	0.07	<2	<1	24
CC49967		<10	<1	0.05	<10	6.84	484	<1	0.03	10	910	25	0.10	<2	<1	22
CC49968		<10	<1	0.03	<10	9.95	398	<1	0.02	7	510	21	0.04	<2	1	34
CC49969		<10	<1	0.04	<10	8.25	1150	<1	0.02	10	700	54	0.05	<2	<1	30
CC49970		<10	<1	0.07	10	1.79	767	1	0.03	21	1400	31	0.12	<2	1	16
CC49971		<10	<1	0.03	<10	6.80	906	1	0.02	8	1150	32	0.12	<2	<1	17
CC49972		<10	1	0.08	10	1.19	1265	1	0.03	27	870	130	0.08	<2	3	14
CC49973		<10	<1	0.02	<10	8.92	681	<1	0.03	4	1400	17	0.09	<2	<1	23
CC49974		<10	1	0.03	<10	9.17	497	<1	0.03	6	610	128	0.04	<2	1	31
CC49975		<10	<1	0.03	<10	9.08	586	<1	0.03	4	1100	79	0.07	<2	<1	25
CC49976		<10	<1	0.01	<10	11.75	270	<1	0.02	1	610	12	<0.01	<2	<1	28
CC49977		<10	<1	0.03	<10	6.61	950	<1	0.02	9	1020	19	0.07	<2	1	21

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Finalized Date: 29-SEP-2009
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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC68592		<20	0.01	<10	10	47	<10	183
CC68593		<20	<0.01	<10	10	21	<10	102
CC68594		<20	0.02	<10	<10	48	<10	274
CC68595		<20	0.01	<10	10	29	<10	372
CC68596		<20	0.01	<10	<10	40	<10	747
CC68597		<20	0.01	<10	10	16	<10	362
CC68598		<20	<0.01	<10	10	10	<10	46
CC68599		<20	0.01	<10	10	11	<10	63
CC68600		<20	0.01	<10	<10	25	<10	233
CC49947		<20	0.01	<10	<10	45	<10	1785
CC49948		<20	0.01	<10	10	7	<10	75
CC49949		<20	0.02	<10	<10	45	<10	223
CC49950		<20	0.01	<10	<10	23	<10	162
CC49951		<20	<0.01	<10	10	4	<10	51
CC49952		<20	<0.01	<10	10	4	<10	53
CC49953		<20	0.01	<10	10	12	<10	87
CC49954		<20	0.03	<10	<10	48	<10	107
CC49955		<20	<0.01	<10	10	4	<10	37
CC49956		<20	0.02	<10	<10	50	<10	319
CC49957		<20	0.01	<10	<10	44	<10	419
CC49958		<20	<0.01	<10	<10	6	<10	103
CC49959		<20	0.02	<10	<10	23	<10	133
CC49960		<20	0.01	<10	10	18	<10	241
CC49961		<20	0.02	<10	<10	26	<10	138
CC49962		<20	0.01	<10	<10	20	<10	115
CC49963		<20	0.01	<10	<10	20	<10	66
CC49964		<20	0.02	<10	<10	21	<10	64
CC49965		<20	0.01	<10	<10	21	<10	138
CC49966		<20	0.01	<10	<10	19	<10	94
CC49967		<20	0.01	<10	<10	21	<10	205
CC49968		<20	0.01	<10	10	21	<10	123
CC49969		<20	0.01	<10	<10	17	<10	364
CC49970		<20	0.02	<10	<10	49	<10	180
CC49971		<20	0.01	<10	<10	13	<10	249
CC49972		<20	0.03	<10	<10	65	<10	454
CC49973		<20	0.01	<10	10	12	<10	161
CC49974		<20	0.01	<10	10	29	<10	186
CC49975		<20	0.01	<10	10	15	<10	232
CC49976		<20	<0.01	<10	10	3	<10	81
CC49977		<20	0.01	<10	<10	21	<10	122

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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC49978		0.16	0.003	0.4	0.17	7	<10	90	<0.5	<2	16.9	0.6	<1	3	2	0.39
CC49979		0.16	0.004	<0.2	0.54	14	<10	210	<0.5	<2	11.65	1.6	3	9	8	1.14
CC49980		0.12	0.003	<0.2	1.49	20	<10	250	0.5	<2	3.33	1.1	7	19	10	2.36
CC49981		0.12	0.003	<0.2	1.37	12	<10	180	0.5	<2	2.32	0.7	7	21	14	2.46
CC49982		0.14	0.004	0.2	0.50	15	<10	200	<0.5	<2	13.10	1.9	3	6	9	1.05
CC49983		0.14	0.012	<0.2	1.28	64	<10	190	<0.5	16	3.06	2.2	7	18	16	2.49
CC49984		0.16	0.004	<0.2	0.83	24	<10	130	<0.5	<2	9.47	1.3	4	12	10	1.35
CC49985		0.20	0.006	<0.2	0.32	23	<10	190	<0.5	<2	16.7	0.9	2	5	8	1.15
CC49986		0.16	0.003	<0.2	1.73	15	<10	190	0.6	<2	2.45	1.6	9	24	13	2.55
CC49987		0.14	0.006	<0.2	0.74	10	<10	100	<0.5	<2	10.30	0.7	4	11	8	1.19
CC49988		0.14	0.003	0.3	1.11	14	<10	190	<0.5	<2	5.48	1.7	5	16	13	1.75
CC49989		0.16	0.003	<0.2	0.09	9	<10	50	<0.5	<2	17.8	0.5	<1	4	2	0.28
CC49990		0.16	0.005	0.2	0.05	29	<10	270	<0.5	<2	20.0	3.2	10	2	4	0.57
CC49991		0.22	0.003	0.2	0.41	4	<10	90	<0.5	<2	15.8	1.1	2	6	5	0.62
CC49992		0.20	0.004	<0.2	0.11	6	<10	70	<0.5	<2	18.0	1.1	1	2	3	0.29
CC49993		0.22	0.003	0.3	0.16	9	<10	90	<0.5	<2	18.4	1.3	1	2	3	0.36
CC49994		0.18	0.004	0.3	0.11	22	<10	200	<0.5	<2	18.6	6.5	<1	2	3	0.66
CC49995		0.24	0.004	0.5	0.11	44	<10	200	<0.5	<2	19.1	4.5	1	2	4	0.76
CC49996		0.22	0.004	0.3	0.22	29	<10	210	<0.5	<2	11.05	3.7	10	4	8	1.75
CC49997		0.16	0.003	<0.2	0.26	12	<10	100	<0.5	<2	18.5	0.7	2	4	4	0.55
CC49998		0.16	0.003	<0.2	0.30	11	<10	60	<0.5	<2	16.6	0.6	3	4	5	0.50
CC49999		0.12	0.003	<0.2	0.45	5	<10	50	<0.5	<2	16.2	0.8	3	5	6	0.62
CC50000		0.16	0.002	0.3	0.69	13	<10	110	<0.5	<2	11.90	0.9	4	9	9	1.17
CC45126		0.12	0.003	0.3	0.39	22	<10	90	<0.5	<2	8.79	0.5	5	6	12	1.41
CC45127		0.18	0.001	0.3	0.14	5	<10	50	<0.5	<2	17.8	<0.5	<1	2	1	0.21
CC45128		0.14	0.004	<0.2	0.43	11	<10	80	<0.5	<2	13.25	0.7	3	6	7	0.79
CC45129		0.18	0.002	0.2	0.78	12	<10	100	<0.5	<2	11.75	0.9	4	10	8	1.19
CC45130		0.18	0.005	<0.2	0.54	13	<10	90	<0.5	<2	12.40	0.6	3	9	10	1.07
CC45131		0.18	0.002	<0.2	0.41	2	<10	50	<0.5	<2	13.45	<0.5	2	5	5	0.51
CC45132		0.20	0.004	<0.2	0.14	4	<10	30	<0.5	<2	17.6	<0.5	1	3	2	0.25
CC45133		0.16	0.002	<0.2	0.32	8	<10	120	<0.5	<2	15.5	0.8	2	5	7	0.58
CC45134		0.16	0.004	<0.2	0.90	10	<10	110	<0.5	<2	11.15	1.3	4	11	9	1.22
CC45135		0.20	0.003	0.2	1.35	13	<10	150	0.5	<2	6.01	0.7	7	21	14	2.05
CC45136		0.16	0.002	<0.2	1.27	16	<10	130	0.5	<2	7.43	0.8	7	18	13	1.94
CC45137		0.20	0.004	0.2	0.21	5	<10	50	<0.5	<2	15.8	0.5	1	3	3	0.35
CC45138		0.16	0.005	<0.2	0.47	14	<10	80	<0.5	<2	12.80	0.6	3	8	7	0.86
CC45139		0.20	0.002	0.3	0.76	12	<10	100	<0.5	<2	11.35	0.6	3	9	9	1.04
CC45140		0.20	0.006	<0.2	0.54	9	<10	80	<0.5	<2	12.75	0.5	3	7	6	0.74
CC45141		0.14	0.001	0.2	0.69	11	<10	120	<0.5	<2	13.55	0.7	3	9	8	0.98
CC45142		0.18	0.004	<0.2	0.99	11	<10	130	<0.5	<2	8.95	0.7	6	13	11	1.46

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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC49978		<10	<1	0.02	<10	10.90	708	<1	0.02	4	480	23	<0.01	<2	<1	30
CC49979		<10	<1	0.05	<10	7.48	1080	1	0.03	12	750	37	0.07	<2	1	30
CC49980		<10	<1	0.06	10	1.87	2060	1	0.03	16	1510	56	0.11	<2	1	14
CC49981		<10	<1	0.09	10	1.46	859	1	0.03	18	580	34	0.07	<2	2	16
CC49982		<10	1	0.03	<10	8.86	2200	<1	0.03	11	1240	112	0.09	<2	<1	29
CC49983		<10	1	0.07	10	1.73	1850	1	0.03	18	1050	75	0.09	<2	2	17
CC49984		<10	<1	0.06	<10	6.57	879	<1	0.03	13	1030	38	0.07	<2	1	26
CC49985		<10	<1	0.03	<10	10.80	1555	<1	0.02	12	560	84	<0.01	2	1	122
CC49986		<10	<1	0.08	10	1.56	1255	1	0.03	21	850	32	0.07	<2	2	16
CC49987		<10	<1	0.06	<10	7.06	722	<1	0.03	12	730	39	0.06	<2	1	25
CC49988		<10	1	0.08	10	3.19	829	<1	0.03	18	1080	46	0.08	<2	1	21
CC49989		<10	<1	0.01	<10	11.65	326	<1	0.02	4	320	20	<0.01	<2	<1	33
CC49990		<10	<1	0.01	<10	13.15	2550	<1	0.02	30	600	164	<0.01	5	<1	33
CC49991		<10	<1	0.03	<10	10.40	592	<1	0.02	7	570	26	0.03	<2	1	29
CC49992		<10	1	0.01	<10	11.85	529	<1	0.02	5	440	114	<0.01	<2	<1	32
CC49993		<10	<1	0.02	<10	11.75	783	<1	0.02	5	400	214	<0.01	<2	<1	31
CC49994		<10	1	0.01	<10	11.90	1995	<1	0.03	3	420	117	<0.01	<2	<1	68
CC49995		<10	<1	0.02	<10	11.95	2010	<1	0.02	6	570	97	<0.01	<2	<1	44
CC49996		<10	<1	0.06	<10	7.20	1490	<1	0.02	22	650	247	0.03	3	1	45
CC49997		<10	1	0.02	<10	11.15	1135	<1	0.03	7	650	19	<0.01	<2	<1	38
CC49998		<10	<1	0.02	<10	10.75	597	<1	0.02	7	630	15	<0.01	<2	<1	34
CC49999		<10	1	0.02	<10	10.35	967	<1	0.03	7	1150	22	0.07	<2	<1	29
CC50000		<10	<1	0.06	<10	7.71	731	1	0.03	13	1270	29	0.08	<2	1	36
CC45126		<10	1	0.18	10	3.93	430	<1	0.02	15	1130	29	0.12	<2	1	148
CC45127		<10	1	0.01	<10	11.50	432	<1	0.02	2	650	9	<0.01	<2	<1	32
CC45128		<10	<1	0.04	<10	8.90	654	<1	0.02	8	920	46	0.08	<2	<1	32
CC45129		<10	<1	0.06	<10	8.03	813	<1	0.03	12	900	42	0.06	<2	1	31
CC45130		<10	<1	0.07	10	8.57	426	<1	0.03	12	620	29	0.03	<2	1	36
CC45131		<10	1	0.02	<10	8.96	402	<1	0.02	4	820	8	0.09	<2	<1	26
CC45132		<10	<1	0.01	<10	11.55	228	<1	0.02	4	410	11	<0.01	<2	<1	30
CC45133		<10	1	0.02	<10	9.85	1170	<1	0.03	7	1400	65	0.07	<2	<1	40
CC45134		<10	1	0.06	<10	7.42	907	<1	0.02	12	1300	19	0.08	<2	1	27
CC45135		<10	1	0.08	10	3.93	806	<1	0.03	22	980	29	0.07	<2	2	22
CC45136		<10	<1	0.08	10	5.16	867	<1	0.03	19	990	25	0.07	<2	2	24
CC45137		<10	1	0.01	<10	10.00	667	<1	0.02	2	1070	9	0.07	<2	<1	29
CC45138		<10	<1	0.04	<10	7.95	523	<1	0.02	10	910	26	0.07	<2	1	31
CC45139		<10	1	0.04	<10	7.71	501	<1	0.03	10	1010	31	0.07	<2	1	29
CC45140		<10	1	0.04	<10	7.61	467	<1	0.02	8	1920	13	0.11	<2	<1	32
CC45141		<10	1	0.05	<10	5.55	433	<1	0.03	11	1120	11	0.10	<2	<1	37
CC45142		<10	1	0.06	10	2.97	447	<1	0.02	13	1270	14	0.12	<2	1	29

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

Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC49978		<20	0.01	<10	10	8	<10	197
CC49979		<20	0.01	<10	<10	26	<10	288
CC49980		<20	0.02	<10	<10	40	<10	440
CC49981		<20	0.03	<10	<10	49	<10	192
CC49982		<20	0.01	<10	<10	17	<10	585
CC49983		<20	0.03	<10	<10	48	<10	444
CC49984		<20	0.02	<10	<10	27	<10	276
CC49985		<20	0.01	<10	<10	52	<10	650
CC49986		<20	0.03	<10	<10	47	<10	292
CC49987		<20	0.02	<10	<10	25	<10	163
CC49988		<20	0.02	<10	<10	32	<10	251
CC49989		<20	<0.01	<10	10	7	<10	101
CC49990		<20	<0.01	<10	10	8	<10	1120
CC49991		<20	0.01	<10	10	12	<10	187
CC49992		<20	<0.01	<10	10	7	<10	160
CC49993		<20	<0.01	<10	10	8	<10	279
CC49994		<20	<0.01	<10	10	14	<10	540
CC49995		<20	<0.01	<10	10	5	<10	896
CC49996		<20	<0.01	<10	<10	6	<10	806
CC49997		<20	0.01	<10	10	7	<10	164
CC49998		<20	0.01	<10	10	7	<10	166
CC49999		<20	0.01	<10	10	9	<10	191
CC50000		<20	0.01	<10	<10	18	<10	168
CC45126		<20	<0.01	<10	<10	7	<10	67
CC45127		<20	<0.01	<10	10	3	<10	67
CC45128		<20	0.01	<10	<10	13	<10	149
CC45129		<20	0.01	<10	<10	18	<10	152
CC45130		<20	0.02	<10	<10	19	<10	104
CC45131		<20	0.01	<10	<10	9	<10	68
CC45132		<20	<0.01	<10	10	5	<10	43
CC45133		<20	0.01	<10	10	10	<10	210
CC45134		<20	0.01	<10	<10	22	<10	275
CC45135		<20	0.02	<10	<10	38	<10	168
CC45136		<20	0.02	<10	<10	37	<10	151
CC45137		<20	<0.01	<10	10	4	<10	73
CC45138		<20	0.01	<10	<10	16	<10	145
CC45139		<20	0.01	<10	<10	24	<10	165
CC45140		<20	0.01	<10	<10	13	<10	124
CC45141		<20	0.01	<10	<10	17	<10	117
CC45142		<20	0.01	<10	<10	25	<10	138

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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC45143		0.16	0.005	0.3	1.37	26	<10	200	0.6	2	3.72	1.7	7	19	14	2.41
CC45144		0.16	0.002	0.2	0.68	13	<10	90	<0.5	<2	11.55	0.6	3	10	8	1.07
CC45145		0.24	0.003	0.2	0.42	11	<10	70	<0.5	<2	14.8	0.7	2	7	5	0.76
CC45146		0.12	0.003	0.2	0.57	9	<10	140	<0.5	<2	11.20	0.6	3	8	8	0.92
CC45147		0.14	0.001	<0.2	1.04	14	<10	120	<0.5	<2	8.80	0.7	5	15	10	1.56
CC45148		0.14	0.004	0.2	1.79	15	<10	150	0.7	4	3.45	1.0	8	22	14	2.30
CC45149		0.14	0.001	<0.2	0.76	10	<10	90	<0.5	<2	10.40	<0.5	3	10	7	1.13
CC45150		0.12	0.001	<0.2	1.00	12	<10	110	<0.5	<2	8.81	0.7	5	15	11	1.51
CC49001		0.18	<0.001	<0.2	0.78	6	<10	80	<0.5	<2	10.15	0.7	3	10	8	1.08
CC49002		0.22	0.001	<0.2	2.07	14	<10	230	0.8	<2	0.75	0.9	10	29	10	3.19
CC49003		0.14	0.001	<0.2	1.46	12	<10	160	0.5	2	3.31	0.9	8	21	12	2.30
CC49004		0.12	0.001	<0.2	1.45	14	<10	200	0.6	<2	7.35	0.9	7	18	11	2.04
CC49005		0.18	0.002	<0.2	1.35	14	<10	170	0.5	<2	6.52	0.8	6	18	9	2.03
CC68751		0.14	0.002	0.3	1.34	18	<10	150	0.5	<2	5.68	1.0	7	20	13	2.40
CC68752		0.12	0.002	0.2	1.51	14	<10	220	0.6	<2	1.54	1.0	9	26	20	2.96
CC68753		0.12	0.001	<0.2	1.20	13	<10	140	<0.5	<2	5.70	0.7	6	17	13	1.91
CC68754		0.12	0.004	<0.2	0.64	4	<10	120	<0.5	<2	8.72	0.5	3	8	9	0.99
CC68755		0.14	<0.001	<0.2	0.64	5	<10	120	<0.5	<2	6.93	0.9	4	9	9	1.15
CC68756		0.18	0.001	<0.2	2.02	15	<10	230	0.7	<2	4.77	1.1	9	25	13	2.60
CC68757		0.26	0.002	<0.2	1.71	18	<10	190	0.7	<2	2.62	0.8	9	25	16	3.25
CC68758		0.18	0.003	<0.2	1.52	28	<10	200	0.6	2	0.78	1.0	13	29	18	3.30
CC68759		0.14	0.001	<0.2	1.97	19	<10	240	0.7	2	1.61	1.0	9	30	14	3.36
CC68760		0.16	0.002	0.2	0.90	16	<10	130	<0.5	<2	9.27	0.9	7	13	12	1.75
CC68761		0.16	0.002	<0.2	2.19	15	<10	230	0.8	2	0.44	1.2	9	30	8	3.17
CC68762		0.16	0.001	<0.2	1.47	13	<10	150	0.5	<2	6.18	1.6	6	16	11	2.07
CC68763		0.16	0.002	<0.2	1.67	18	<10	210	0.6	2	4.55	1.5	10	32	16	2.89
CC68764		0.16	0.001	0.3	0.83	11	<10	170	<0.5	<2	10.65	1.2	3	14	8	1.22
CC68765		0.16	<0.001	0.7	1.34	64	<10	270	<0.5	2	7.56	1.6	14	27	23	3.26
CC68766		0.16	0.001	<0.2	2.09	26	<10	210	0.7	2	1.47	1.0	10	32	13	3.15
CC68767		0.14	0.001	0.2	2.28	23	<10	270	0.8	3	0.83	1.3	11	36	16	3.95
CC68768		0.12	0.002	0.9	1.24	54	<10	400	<0.5	2	5.26	2.1	10	21	27	3.05
CC68769		0.16	0.002	<0.2	0.69	21	<10	110	<0.5	<2	11.05	0.6	3	9	5	1.11
CC68770		0.16	0.001	0.7	1.60	57	<10	320	0.6	3	6.39	10.1	8	17	24	3.97
CC68771		0.18	0.001	<0.2	2.06	34	<10	350	0.8	18	3.60	2.8	7	24	11	2.99
CC68772		0.16	0.001	0.3	0.51	11	<10	110	<0.5	<2	16.2	1.1	1	6	8	0.70
CC68773		0.16	0.001	<0.2	1.93	14	<10	280	0.7	<2	6.79	0.7	6	26	11	2.65
CC68774		0.16	0.001	0.3	0.96	27	<10	130	<0.5	<2	10.85	1.2	5	13	10	1.51
CC68775		0.16	0.001	0.4	0.26	9	<10	100	<0.5	<2	17.2	0.8	1	5	5	0.67
CC68776		0.18	0.003	0.4	0.44	14	<10	110	<0.5	<2	13.30	0.9	2	7	8	0.85
CC68777		0.12	0.002	1.1	0.82	27	<10	340	0.5	2	2.39	2.0	13	20	29	5.31

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CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC45143		<10	1	0.07	10	2.17	2200	1	0.02	19	1130	47	0.10	<2	1	18
CC45144		<10	1	0.05	<10	7.15	408	<1	0.01	10	1700	15	0.06	<2	1	34
CC45145		<10	1	0.03	<10	9.66	413	<1	0.01	9	690	16	0.01	<2	1	34
CC45146		<10	1	0.05	<10	4.57	645	<1	0.01	9	1250	10	0.11	<2	<1	31
CC45147		<10	1	0.08	10	5.56	528	<1	0.02	15	1690	16	0.06	<2	1	39
CC45148		<10	1	0.08	10	1.80	702	1	0.01	17	1950	26	0.12	<2	1	19
CC45149		<10	<1	0.05	<10	6.95	507	<1	0.01	10	790	12	0.05	<2	1	24
CC45150		<10	<1	0.07	10	5.58	587	<1	0.01	13	1080	15	0.06	<2	1	23
CC49001		<10	<1	0.05	<10	6.86	854	<1	0.01	9	1160	15	0.07	<2	1	24
CC49002		<10	1	0.08	10	0.69	1180	1	0.01	23	690	34	0.04	<2	3	13
CC49003		<10	1	0.09	10	2.08	981	<1	0.02	18	930	26	0.05	<2	2	18
CC49004		<10	1	0.07	10	4.64	1520	<1	0.02	16	1180	26	0.08	<2	1	22
CC49005		<10	<1	0.07	10	4.14	1010	<1	0.02	17	900	22	0.04	<2	2	19
CC68751		<10	<1	0.08	10	3.61	567	<1	0.01	18	1050	103	0.04	<2	2	21
CC68752		<10	1	0.15	10	1.01	747	1	0.03	26	840	45	0.04	<2	3	22
CC68753		<10	<1	0.09	10	3.64	586	<1	0.02	18	830	24	0.04	<2	2	19
CC68754		<10	<1	0.06	<10	5.69	603	<1	0.02	8	780	14	0.07	<2	1	23
CC68755		<10	1	0.03	<10	3.84	912	<1	0.01	7	690	13	0.06	<2	1	15
CC68756		10	2	0.11	10	3.14	862	<1	0.02	22	850	27	0.05	<2	2	19
CC68757		<10	1	0.15	10	1.72	821	1	0.02	25	560	43	0.03	<2	3	15
CC68758		<10	<1	0.15	10	0.65	1000	1	0.02	40	510	52	0.02	<2	3	13
CC68759		10	1	0.12	10	1.10	742	1	0.02	24	650	35	0.04	<2	3	16
CC68760		<10	1	0.10	10	6.24	803	<1	0.02	20	1080	37	0.04	<2	1	29
CC68761		<10	<1	0.09	10	0.55	1315	1	0.02	22	310	30	0.02	<2	4	12
CC68762		<10	1	0.07	10	3.88	1855	1	0.02	15	1030	31	0.06	<2	2	18
CC68763		<10	1	0.11	20	2.73	1020	<1	0.02	26	1120	27	0.06	<2	2	30
CC68764		<10	1	0.05	10	7.10	1110	<1	0.01	9	1640	74	0.06	<2	1	50
CC68765		<10	1	0.09	10	5.01	1535	<1	0.02	44	1370	60	0.06	2	2	29
CC68766		10	1	0.11	20	1.14	943	<1	0.02	27	660	38	0.03	<2	4	17
CC68767		<10	1	0.14	10	0.73	1400	1	0.03	29	470	37	0.03	<2	5	19
CC68768		<10	<1	0.09	10	3.11	3230	1	0.02	38	1300	63	0.07	<2	2	21
CC68769		<10	1	0.03	<10	7.17	641	<1	0.01	10	1680	24	0.06	<2	1	30
CC68770		<10	1	0.05	10	3.96	8070	<1	0.02	27	1620	532	0.08	<2	2	18
CC68771		<10	1	0.06	10	2.38	2560	<1	0.02	21	890	133	0.03	2	3	18
CC68772		<10	<1	0.03	<10	10.50	914	<1	0.01	6	1050	91	<0.01	<2	1	34
CC68773		<10	1	0.07	10	4.63	1400	1	0.03	17	1010	66	0.04	2	3	23
CC68774		<10	<1	0.07	<10	7.29	924	<1	0.02	15	1400	75	0.06	<2	1	31
CC68775		<10	<1	0.02	<10	11.00	1090	<1	0.02	4	700	117	<0.01	<2	<1	38
CC68776		<10	<1	0.05	<10	9.17	634	<1	0.02	9	640	62	0.03	<2	1	36
CC68777		<10	1	0.27	10	1.18	1455	1	0.03	23	750	188	0.05	<2	3	24

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC45143		<20	0.02	<10	<10	41	<10	310
CC45144		<20	0.01	<10	<10	18	<10	152
CC45145		<20	0.01	<10	<10	15	<10	151
CC45146		<20	0.01	<10	<10	14	<10	135
CC45147		<20	0.02	<10	<10	32	<10	139
CC45148		<20	0.01	<10	<10	42	<10	154
CC45149		<20	0.01	<10	<10	19	<10	117
CC45150		<20	0.02	<10	<10	26	<10	123
CC49001		<20	0.01	<10	<10	18	<10	155
CC49002		<20	0.03	<10	<10	57	<10	304
CC49003		<20	0.02	<10	<10	40	<10	146
CC49004		<20	0.02	<10	<10	36	<10	176
CC49005		<20	0.02	<10	<10	39	<10	143
CC68751		<20	0.02	<10	<10	38	<10	183
CC68752		<20	0.03	<10	<10	49	<10	171
CC68753		<20	0.02	<10	<10	33	<10	135
CC68754		<20	0.01	<10	<10	15	<10	154
CC68755		<20	0.01	<10	<10	14	<10	336
CC68756		<20	0.02	<10	<10	53	<10	237
CC68757		<20	0.02	<10	<10	46	<10	194
CC68758		<20	0.03	<10	<10	49	<10	277
CC68759		<20	0.03	<10	<10	55	<10	221
CC68760		<20	0.01	<10	<10	28	<10	155
CC68761		<20	0.04	<10	<10	62	<10	341
CC68762		<20	0.02	<10	<10	37	<10	374
CC68763		<20	0.03	<10	<10	47	<10	324
CC68764		<20	0.02	<10	<10	22	<10	427
CC68765		<20	0.02	<10	<10	43	<10	439
CC68766		<20	0.04	<10	<10	61	<10	217
CC68767		<20	0.05	<10	<10	71	<10	233
CC68768		<20	0.02	<10	<10	41	<10	484
CC68769		<20	0.01	<10	<10	19	<10	217
CC68770		<20	0.02	<10	<10	53	<10	2400
CC68771		<20	0.03	<10	<10	62	<10	711
CC68772		<20	0.01	<10	10	13	<10	222
CC68773		<20	0.03	<10	<10	45	<10	379
CC68774		<20	0.02	<10	<10	27	<10	229
CC68775		<20	0.01	<10	10	8	<10	297
CC68776		<20	0.01	<10	<10	15	<10	180
CC68777		<20	0.01	<10	<10	20	<10	433

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68778		0.14	0.002	0.3	0.65	14	<10	220	<0.5	<2	10.80	0.9	4	10	9	1.39
CC68779		0.16	0.001	0.2	0.83	23	<10	200	0.6	3	2.18	1.0	15	15	47	4.85
CC68780		0.20	0.002	<0.2	0.43	15	<10	110	<0.5	<2	5.29	1.3	10	8	26	3.05
CC68781		0.16	0.003	0.8	0.79	30	<10	230	<0.5	<2	7.69	1.2	10	21	24	2.78
CC68782		0.14	0.002	0.3	0.50	20	<10	100	<0.5	<2	6.28	<0.5	8	16	14	2.52
CC68783		0.16	<0.001	0.6	0.80	16	<10	140	<0.5	<2	8.10	1.4	5	16	15	2.04
CC68784		0.16	0.001	0.2	2.35	25	<10	380	0.9	3	0.91	1.0	11	38	16	3.67
CC68785		0.14	<0.001	<0.2	1.70	12	<10	150	0.6	<2	0.70	0.8	6	30	9	3.12
CC68786		0.16	0.001	0.6	0.80	49	<10	360	<0.5	<2	2.44	1.4	4	22	10	3.23
CC68787		0.12	0.002	0.8	0.76	27	<10	250	<0.5	<2	11.05	1.4	9	16	35	2.53
CC68788		0.14	0.001	0.4	0.56	19	<10	200	<0.5	<2	10.35	0.9	5	11	18	2.03
CC68789		0.18	0.003	0.2	1.04	16	<10	230	0.5	<2	2.86	2.8	8	22	25	3.19
CC68790		0.12	0.001	0.2	0.82	23	<10	180	<0.5	<2	9.88	0.9	8	18	38	2.24
CC68791		0.14	0.002	0.5	1.82	27	<10	160	0.8	<2	2.21	1.4	10	37	28	4.42
CC68792		0.16	0.005	0.5	1.05	22	<10	210	<0.5	<2	8.26	1.0	7	20	23	2.51
CC68793		0.18	0.003	0.3	1.51	20	<10	260	0.6	2	0.89	1.2	11	29	27	3.90
CC68794		0.18	0.003	0.3	1.41	16	<10	210	0.5	<2	4.27	0.9	8	25	26	2.88
CC68795		0.16	0.001	<0.2	1.12	14	<10	170	<0.5	2	2.41	1.0	11	18	29	3.58
CC68796		0.16	<0.001	<0.2	1.27	8	<10	130	<0.5	<2	8.48	0.7	9	14	29	2.70
CC68797		0.18	0.001	<0.2	1.59	11	<10	270	0.5	<2	4.88	0.7	11	19	40	4.21
CC68798		0.20	0.002	<0.2	1.29	5	<10	160	<0.5	<2	6.87	<0.5	10	13	40	3.83
CC68799		0.18	0.003	0.3	1.52	21	<10	670	0.6	<2	2.96	0.9	13	22	45	4.17
CC68800		0.16	0.002	0.2	0.56	16	<10	130	<0.5	<2	3.29	0.7	9	8	31	2.90

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68778		<10	1	0.07	<10	7.40	1315	<1	0.03	12	830	64	0.03	<2	1	37
CC68779		<10	1	0.32	10	1.08	1310	1	0.02	26	740	57	0.06	<2	3	37
CC68780		<10	1	0.14	10	2.76	741	1	0.01	19	690	58	0.04	<2	2	81
CC68781		<10	2	0.12	10	4.84	1060	1	0.04	31	950	134	0.02	<2	3	76
CC68782		<10	1	0.08	10	3.77	441	<1	0.02	29	930	46	0.03	<2	2	64
CC68783		<10	1	0.10	10	5.23	945	<1	0.02	15	1460	104	0.09	2	1	78
CC68784		10	1	0.14	20	0.89	1135	1	0.03	30	360	69	0.02	2	6	19
CC68785		<10	1	0.07	10	0.51	717	1	0.02	16	420	71	0.03	<2	3	15
CC68786		<10	<1	0.07	10	1.19	1805	1	0.02	15	1510	111	0.05	46	2	20
CC68787		<10	1	0.19	<10	6.57	1125	1	0.06	20	970	182	0.04	6	3	114
CC68788		<10	<1	0.12	<10	6.84	817	<1	0.03	13	890	74	0.05	7	2	125
CC68789		<10	1	0.10	10	1.44	1260	1	0.03	17	1180	67	0.08	5	2	40
CC68790		<10	<1	0.21	<10	5.79	425	<1	0.07	18	990	50	0.07	6	4	122
CC68791		<10	1	0.13	20	1.43	849	2	0.03	32	910	125	0.04	4	5	27
CC68792		<10	1	0.12	10	5.65	492	1	0.04	21	900	86	0.03	3	3	86
CC68793		<10	1	0.19	20	0.57	763	1	0.03	27	890	67	0.05	<2	4	24
CC68794		<10	1	0.16	10	2.76	457	1	0.03	27	950	45	0.03	<2	4	40
CC68795		<10	1	0.20	20	1.67	676	1	0.02	24	730	32	0.03	<2	3	27
CC68796		<10	<1	0.24	10	4.82	570	1	0.02	19	710	25	0.02	<2	3	88
CC68797		<10	1	0.33	20	3.25	602	1	0.02	24	780	23	0.03	<2	3	49
CC68798		<10	<1	0.28	20	3.78	562	<1	0.01	23	700	26	0.02	<2	3	70
CC68799		<10	1	0.37	20	2.04	407	3	0.03	27	900	22	0.04	<2	3	63
CC68800		<10	<1	0.22	10	1.71	480	1	0.01	18	470	50	0.03	<2	2	41

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Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100630

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC68778		<20	0.02	<10	<10	21	<10	247
CC68779		<20	0.01	<10	<10	17	<10	279
CC68780		<20	<0.01	<10	<10	11	<10	186
CC68781		<20	0.02	<10	<10	31	<10	321
CC68782		<20	0.01	<10	<10	22	<10	107
CC68783		<20	0.01	<10	<10	31	<10	205
CC68784		<20	0.04	<10	<10	75	<10	346
CC68785		<20	0.03	<10	<10	51	<10	291
CC68786		<20	0.02	<10	<10	30	<10	468
CC68787		<20	0.01	<10	<10	39	<10	374
CC68788		<20	0.01	<10	<10	27	<10	265
CC68789		<20	0.02	<10	<10	49	<10	580
CC68790		<20	0.01	<10	<10	37	<10	195
CC68791		<20	0.03	<10	<10	70	<10	273
CC68792		<20	0.02	<10	<10	41	<10	262
CC68793		<20	0.02	<10	<10	51	<10	221
CC68794		<20	0.03	<10	<10	48	<10	149
CC68795		<20	0.02	<10	<10	30	<10	137
CC68796		<20	0.02	<10	<10	25	<10	107
CC68797		<20	0.01	<10	<10	33	<10	101
CC68798		<20	0.01	<10	<10	21	<10	88
CC68799		<20	0.01	<10	<10	55	<10	84
CC68800		<20	<0.01	<10	<10	12	<10	120

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Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE VA09100029

Project: RAU

P.O. No.:

This report is for 230 Soil samples submitted to our lab in Vancouver, BC, Canada on 14-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68801		0.20	0.010	1.1	0.27	3	<10	80	<0.5	21	0.06	<0.5	<1	13	272	14.5
CC68802		0.24	0.005	0.3	0.17	<2	<10	50	<0.5	18	0.02	<0.5	<1	5	294	33.6
CC68803		0.20	0.011	0.6	0.68	3	<10	100	<0.5	12	0.46	<0.5	<1	20	355	18.0
CC68804		0.20	0.003	2.0	0.17	<2	<10	110	<0.5	26	0.15	<0.5	<1	13	192	39.4
CC68805		0.18	0.001	1.0	0.34	10	<10	50	<0.5	16	0.01	<0.5	<1	25	480	30.6
CC68806		0.20	0.002	1.0	0.48	17	<10	90	<0.5	10	0.06	<0.5	<1	26	421	25.0
CC68807		0.20	0.003	1.3	1.86	13	<10	110	0.6	7	0.28	<0.5	3	51	441	15.0
CC68808		0.18	0.001	0.6	1.57	9	<10	100	0.6	7	0.34	<0.5	1	70	449	15.9
CC68809		0.16	0.007	0.5	2.34	9	<10	130	1.1	12	1.64	0.5	24	67	406	5.88
CC68810		0.20	<0.001	0.9	1.27	7	<10	90	0.5	4	3.17	1.6	9	62	220	4.61
CC68811		0.24	<0.001	0.7	1.62	5	<10	140	0.7	4	3.76	0.6	9	110	199	3.65
CC68812		0.26	0.001	0.8	1.97	37	<10	60	0.5	<2	11.55	3.0	13	16	113	3.24
CC68813		0.20	0.002	2.4	2.49	99	<10	30	0.7	<2	9.41	18.0	22	17	253	5.08
CC68814		0.22	0.001	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC68815		0.20	0.002	0.4	2.04	10	<10	190	1.0	5	5.19	0.6	17	280	568	6.51
CC68816		0.20	0.002	0.5	1.16	15	<10	120	0.7	9	3.83	0.6	6	94	302	6.21
CC68817		0.34	0.001	0.2	0.67	21	<10	80	0.7	8	0.08	<0.5	9	12	161	5.25
CC68818		0.22	0.007	0.7	1.48	518	<10	130	2.2	36	0.24	<0.5	37	24	533	14.15
CC68819		0.18	0.016	1.0	0.78	30	<10	80	<0.5	28	2.11	<0.5	<1	311	235	26.6
CC68820		0.22	0.012	0.8	1.16	14	<10	50	0.5	29	1.74	<0.5	22	17	741	18.4
CC68821		0.20	0.061	0.9	1.26	36	<10	50	0.7	159	0.58	<0.5	20	33	1040	22.9
CC68822		0.28	0.035	1.1	0.63	30	<10	70	<0.5	110	0.23	<0.5	3	42	461	22.6
CC68823		0.26	0.001	0.7	0.76	3	<10	40	0.7	11	0.75	<0.5	7	17	103	4.54
CC68824		0.20	0.068	1.1	0.64	35	<10	60	<0.5	185	1.06	<0.5	<1	78	639	27.8
CC68825		0.22	0.403	1.2	1.60	34	<10	100	1.6	699	1.63	<0.5	49	66	1125	21.6
CC68826		0.30	0.162	1.1	1.27	312	<10	70	0.7	249	0.77	<0.5	2	44	604	23.1
CC68827		0.22	0.374	0.6	4.39	4	<10	80	5.3	251	0.53	0.7	123	51	2820	11.20
CC68828		0.24	0.104	1.4	3.22	25	<10	140	2.0	86	2.17	2.7	99	61	1460	11.40
CC68829		0.32	0.243	0.7	2.75	20	<10	220	1.3	170	0.18	<0.5	33	74	763	18.4
CC68830		0.22	0.018	0.4	4.10	25	<10	190	1.0	40	0.25	<0.5	6	59	453	9.70
CC68831		0.22	0.029	0.4	3.25	20	<10	160	0.7	72	0.20	<0.5	3	57	465	13.55
CC68832		0.20	0.002	0.2	1.85	15	<10	130	1.0	<2	0.24	<0.5	10	31	61	3.09
CC68833		0.20	0.003	<0.2	1.62	48	<10	110	1.0	3	0.19	<0.5	17	27	79	3.87
CC68834		0.22	0.026	<0.2	2.10	21	<10	130	0.9	<2	0.30	<0.5	18	31	111	3.43
CC68835		0.20	0.002	<0.2	1.78	15	<10	120	0.8	2	0.22	<0.5	14	30	71	3.48
CC68836		0.18	0.013	0.4	2.32	28	<10	130	1.1	24	0.26	<0.5	13	39	122	4.44
CC68837		0.20	0.162	0.3	3.14	16	<10	230	0.9	108	0.66	<0.5	6	61	418	9.44
CC68838		0.20	0.009	<0.2	3.24	10	<10	140	1.1	10	0.20	0.5	14	45	98	3.56
CC68839		0.16	0.001	0.3	2.73	6	<10	80	1.0	3	0.09	<0.5	3	40	28	3.83
CC68840		0.14	0.001	0.4	2.27	3	<10	100	0.7	4	0.06	<0.5	6	29	87	5.63

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68801		10	<1	0.15	10	0.08	23	56	0.24	1	6060	11	1.85	<2	1	144
CC68802		<10	<1	0.25	<10	0.02	85	64	0.06	<1	750	<2	6.25	<2	1	30
CC68803		10	<1	0.05	<10	0.11	97	24	0.02	5	6410	8	0.56	<2	1	23
CC68804		<10	<1	0.08	<10	0.01	33	50	0.08	<1	>10000	10	2.10	<2	1	76
CC68805		10	<1	0.09	<10	0.12	66	100	0.02	5	1420	6	0.93	<2	2	11
CC68806		10	<1	0.16	<10	0.13	56	94	0.09	2	3620	6	1.23	<2	2	44
CC68807		20	<1	0.24	10	0.55	219	52	0.10	34	4090	11	0.82	<2	5	86
CC68808		20	<1	0.22	10	0.47	134	46	0.10	20	5200	8	0.81	<2	4	89
CC68809		10	<1	0.12	10	0.51	687	15	0.06	96	3910	13	0.30	<2	3	91
CC68810		<10	<1	0.05	10	0.36	617	43	0.04	99	2640	18	0.21	<2	2	102
CC68811		<10	<1	0.05	10	0.44	465	14	0.07	78	8590	10	0.18	<2	2	174
CC68812		<10	1	0.03	<10	0.20	399	53	0.13	189	1950	20	0.17	<2	1	488
CC68813		10	<1	0.03	<10	0.12	398	146	0.15	342	1040	40	0.20	2	1	615
CC68814		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC68815		10	1	0.10	10	0.69	927	19	0.06	87	>10000	14	0.30	<2	3	213
CC68816		<10	<1	0.09	10	0.47	540	22	0.07	70	>10000	11	0.30	<2	2	190
CC68817		<10	<1	0.11	10	0.08	464	6	0.02	43	2090	8	0.29	<2	<1	56
CC68818		<10	<1	0.27	20	0.44	6530	12	0.03	186	2450	8	0.32	<2	4	68
CC68819		10	<1	0.41	20	0.43	327	29	0.04	6	>10000	3	1.58	<2	3	101
CC68820		10	<1	0.14	10	0.20	867	34	0.09	65	6990	8	0.56	<2	1	115
CC68821		10	<1	0.18	10	0.15	930	92	0.06	39	3940	9	1.12	<2	3	42
CC68822		10	<1	0.18	10	0.16	678	62	0.09	14	6660	<2	1.10	<2	2	47
CC68823		<10	<1	0.06	10	0.31	89	8	0.08	24	3910	9	0.35	<2	<1	103
CC68824		10	<1	0.24	10	0.21	330	46	0.08	16	9430	4	2.37	<2	2	49
CC68825		20	<1	0.32	30	0.41	2070	62	0.04	144	9480	15	0.42	<2	5	57
CC68826		10	<1	0.31	20	0.42	621	83	0.06	40	4690	28	1.13	<2	4	27
CC68827		10	1	0.22	190	0.34	1615	66	0.05	126	4570	5	0.55	<2	5	36
CC68828		10	<1	0.45	30	0.82	3320	87	0.07	414	>10000	12	0.35	<2	5	86
CC68829		20	<1	1.19	20	0.66	1135	124	0.11	115	3090	3	2.21	<2	6	71
CC68830		20	<1	0.65	10	1.25	306	22	0.04	27	1910	5	0.43	<2	8	35
CC68831		30	1	0.67	10	1.28	269	23	0.04	18	1970	5	0.66	<2	8	34
CC68832		10	1	0.09	20	0.65	842	1	0.02	65	880	12	0.04	<2	4	17
CC68833		10	<1	0.09	20	0.53	1595	4	0.02	84	970	10	0.07	<2	3	15
CC68834		10	<1	0.21	20	0.71	786	1	0.04	147	1250	15	0.06	<2	4	24
CC68835		10	1	0.11	20	0.64	821	4	0.02	111	930	13	0.06	<2	2	16
CC68836		10	1	0.30	10	0.72	2120	12	0.04	55	1820	20	0.11	<2	3	18
CC68837		10	<1	0.44	10	0.99	251	38	0.04	36	5990	9	0.52	<2	3	77
CC68838		10	1	0.08	10	0.71	353	7	0.02	59	1600	11	0.11	<2	2	21
CC68839		10	<1	0.07	10	0.39	136	5	0.02	11	1020	8	0.13	<2	2	15
CC68840		10	1	0.08	10	0.42	205	6	0.03	22	1210	6	0.18	2	2	20

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC68801		<20	0.02	<10	10	55	290	6
CC68802		<20	0.05	<10	10	307	740	3
CC68803		<20	0.02	<10	10	51	470	16
CC68804		<20	0.05	<10	10	129	420	2
CC68805		<20	0.28	<10	10	270	1830	7
CC68806		<20	0.18	<10	10	188	730	7
CC68807		<20	0.09	<10	10	115	220	29
CC68808		<20	0.08	<10	20	123	180	21
CC68809		<20	0.03	<10	10	81	40	166
CC68810		<20	0.01	<10	10	109	20	217
CC68811		<20	0.02	<10	10	81	<10	109
CC68812		<20	0.01	<10	<10	42	<10	308
CC68813		<20	0.02	<10	10	160	<10	824
CC68814		NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC68815		<20	0.03	<10	10	167	30	86
CC68816		<20	0.02	<10	20	93	70	149
CC68817		<20	0.01	<10	<10	24	30	21
CC68818		<20	0.03	<10	<10	32	20	85
CC68819		<20	0.03	<10	<10	175	320	11
CC68820		<20	0.03	<10	<10	80	350	23
CC68821		<20	0.06	<10	10	214	580	21
CC68822		<20	0.11	<10	<10	107	500	11
CC68823		<20	0.01	<10	<10	10	10	26
CC68824		<20	0.04	<10	<10	77	380	15
CC68825		<20	0.04	<10	20	107	410	42
CC68826		<20	0.05	<10	<10	170	330	56
CC68827		<20	0.05	<10	10	224	160	109
CC68828		<20	0.05	<10	10	252	120	463
CC68829		<20	0.14	<10	10	363	290	38
CC68830		<20	0.11	<10	<10	87	70	62
CC68831		<20	0.10	<10	<10	87	70	58
CC68832		<20	0.06	<10	<10	50	60	69
CC68833		<20	0.04	<10	<10	43	60	65
CC68834		<20	0.06	<10	<10	47	20	82
CC68835		<20	0.06	<10	<10	54	10	75
CC68836		<20	0.07	<10	<10	75	90	90
CC68837		<20	0.05	<10	<10	286	90	96
CC68838		<20	0.04	<10	<10	114	10	118
CC68839		<20	0.07	<10	<10	100	<10	57
CC68840		<20	0.06	<10	<10	61	<10	76

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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Sample Description LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68841	0.18	0.019	0.2	2.49	17	<10	150	1.2	31	0.46	<0.5	15	51	198	6.52
CC68842	0.22	0.004	<0.2	1.67	31	<10	140	0.9	<2	0.14	<0.5	17	26	51	3.97
CC68843	0.20	<0.001	<0.2	1.98	25	<10	110	0.9	2	0.13	<0.5	22	24	101	5.32
CC68844	0.18	0.004	<0.2	2.12	40	<10	110	0.9	<2	0.12	<0.5	16	26	63	4.39
CC68845	0.16	0.003	<0.2	1.92	52	<10	90	0.9	<2	0.12	<0.5	13	23	100	5.32
CC68846	0.16	0.004	0.8	1.57	9	<10	170	<0.5	<2	0.23	1.9	21	38	114	4.97
CC68847	0.16	0.002	1.3	1.98	13	<10	330	<0.5	<2	0.35	1.8	14	67	155	3.70
CC68848	0.14	0.004	0.5	1.51	11	<10	270	<0.5	<2	0.45	1.7	9	35	136	3.06
CC68849	0.14	0.002	0.6	1.22	12	<10	140	<0.5	<2	0.32	3.5	19	22	91	3.78
CC68850	0.14	<0.001	1.2	1.67	8	<10	200	<0.5	<2	0.15	1.3	9	24	29	3.08
CC68851	0.14	0.001	0.4	1.31	9	<10	200	<0.5	<2	0.14	0.7	12	18	35	2.54
CC68852	0.14	<0.001	0.7	1.38	5	<10	290	<0.5	<2	0.16	1.9	11	20	34	3.35
CC68853	0.18	0.001	1.2	0.98	6	<10	250	<0.5	<2	0.14	2.7	22	14	80	4.39
CC68854	0.16	<0.001	0.5	1.29	6	<10	440	<0.5	<2	0.49	2.3	16	19	40	2.74
CC68855	0.14	<0.001	1.1	1.15	6	<10	180	<0.5	<2	0.10	1.3	14	16	22	4.30
CC68856	0.16	<0.001	0.7	1.68	4	<10	160	<0.5	<2	0.11	0.5	10	20	31	4.52
CC68857	0.20	<0.001	1.2	1.57	3	<10	300	<0.5	<2	0.11	<0.5	9	18	27	4.43
CC68858	0.14	0.007	10.8	1.20	78	<10	250	0.5	<2	1.80	47.5	9	77	282	2.40
CC68859	0.18	0.003	6.1	1.31	30	<10	340	<0.5	<2	0.13	5.6	7	42	60	2.46
CC68860	0.16	0.007	4.8	1.21	131	<10	330	0.5	<2	0.93	16.1	10	87	274	2.98
CC68861	0.10	0.004	3.5	1.63	39	<10	330	0.7	<2	2.36	28.3	9	62	177	2.45
CC68862	0.14	0.001	1.8	1.83	19	<10	370	0.7	<2	0.93	29.1	9	45	72	2.43
CC68863	0.14	0.001	3.4	0.64	30	<10	140	<0.5	<2	0.13	12.3	4	25	69	2.10
CC68864	0.20	<0.001	3.6	1.40	53	<10	330	0.5	<2	7.36	22.2	11	32	199	3.19
CC68865	0.14	0.001	6.5	1.10	45	<10	180	<0.5	<2	0.13	1.1	5	33	31	2.92
CC68866	0.20	0.001	0.4	2.16	13	<10	260	0.6	<2	0.10	0.6	12	30	30	3.70
CC68867	0.18	<0.001	0.3	1.43	15	<10	90	<0.5	<2	0.05	<0.5	6	25	16	4.44
CC68868	0.18	<0.001	0.4	1.65	15	<10	90	<0.5	<2	0.06	<0.5	7	23	18	3.95
CC68869	0.16	<0.001	0.2	1.54	6	<10	130	<0.5	2	0.81	<0.5	12	19	28	3.45
CC68870	0.14	0.001	<0.2	1.42	6	<10	90	<0.5	<2	0.46	<0.5	8	17	20	3.15
CC68871	0.22	0.004	0.9	1.17	17	<10	290	<0.5	<2	0.78	1.6	10	22	56	2.90
CC68872	0.18	0.001	0.7	1.17	12	<10	240	<0.5	<2	1.56	1.9	11	25	60	2.97
CC68873	0.22	0.003	0.9	1.55	10	<10	330	<0.5	<2	0.94	7.2	22	44	139	3.58
CC68874	0.16	<0.001	0.8	1.00	15	<10	280	<0.5	<2	0.92	5.6	10	25	68	2.61
CC68875	0.18	0.002	0.6	1.27	8	<10	230	<0.5	<2	0.88	2.5	16	21	74	3.49
CC68876	0.20	<0.001	0.6	1.23	8	<10	270	<0.5	<2	0.84	3.5	14	27	81	3.04
CC68877	0.20	0.002	0.8	1.45	7	<10	210	<0.5	<2	0.85	4.3	15	34	99	3.07
CC68878	0.12	0.002	0.8	1.10	10	<10	230	<0.5	<2	1.05	3.1	14	23	74	2.82
CC68879	0.18	0.001	0.4	1.46	7	<10	250	<0.5	<2	0.63	4.7	17	25	72	3.06
CC68880	0.14	0.003	0.3	1.51	3	<10	200	<0.5	<2	0.71	3.8	17	33	81	2.87

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Project: RAU

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68841		10	<1	0.16	20	0.61	1030	26	0.03	61	3530	16	0.16	<2	2	27
CC68842		<10	<1	0.10	10	0.47	772	2	0.02	71	890	7	0.07	2	2	20
CC68843		10	1	0.11	10	0.49	659	2	0.03	98	1050	8	0.16	<2	3	25
CC68844		10	1	0.08	10	0.48	338	1	0.02	63	820	10	0.10	2	2	24
CC68845		10	1	0.09	10	0.47	313	1	0.02	74	1020	8	0.15	<2	2	19
CC68846		<10	<1	0.15	20	0.94	721	7	0.02	105	2280	15	0.16	<2	2	39
CC68847		<10	1	0.17	10	1.65	435	9	0.02	99	1930	13	0.17	3	3	70
CC68848		<10	1	0.11	20	1.21	281	8	<0.01	68	1390	13	0.12	2	2	68
CC68849		<10	<1	0.20	20	0.79	1200	8	<0.01	79	2200	15	0.08	<2	1	39
CC68850		10	<1	0.09	10	0.61	473	3	<0.01	24	1300	10	0.02	<2	2	17
CC68851		<10	<1	0.09	10	0.74	827	2	<0.01	28	870	13	0.03	<2	1	21
CC68852		<10	1	0.10	20	0.65	694	3	<0.01	24	1310	15	0.06	<2	1	28
CC68853		<10	<1	0.09	20	0.33	1310	7	<0.01	59	1760	19	0.09	<2	<1	20
CC68854		<10	<1	0.18	10	0.44	1500	2	<0.01	26	1620	14	0.07	<2	<1	35
CC68855		<10	<1	0.11	20	0.33	325	5	<0.01	27	1350	15	0.04	<2	1	15
CC68856		10	<1	0.18	20	0.78	264	3	<0.01	21	1640	13	0.09	<2	1	36
CC68857		10	<1	0.17	30	0.86	239	3	<0.01	14	2130	12	0.16	<2	2	56
CC68858		<10	2	0.11	20	0.99	336	59	<0.01	280	3000	14	0.03	21	2	134
CC68859		<10	<1	0.06	10	0.35	227	17	<0.01	64	1510	10	0.02	3	1	19
CC68860		<10	1	0.13	20	0.57	251	83	<0.01	335	4440	16	0.02	27	2	70
CC68861		<10	1	0.10	20	0.87	345	29	<0.01	192	1990	17	0.05	13	2	154
CC68862		10	<1	0.06	20	0.67	623	16	<0.01	99	1050	15	0.03	6	3	69
CC68863		<10	<1	0.05	10	0.09	162	58	<0.01	107	640	18	0.02	24	<1	12
CC68864		<10	1	0.08	30	1.04	703	65	<0.01	207	2100	16	0.03	42	2	430
CC68865		<10	1	0.06	10	0.26	377	6	<0.01	59	1610	12	0.05	4	1	22
CC68866		10	<1	0.06	20	0.62	224	3	<0.01	29	500	12	0.03	2	3	17
CC68867		10	<1	0.05	10	0.33	288	4	<0.01	14	950	13	0.02	<2	2	10
CC68868		10	<1	0.05	10	0.33	231	2	<0.01	15	510	15	0.02	<2	2	10
CC68869		<10	<1	0.09	20	0.92	278	3	<0.01	19	1610	13	0.07	<2	2	49
CC68870		<10	<1	0.08	20	0.83	189	1	<0.01	15	1030	9	0.06	<2	1	32
CC68871		<10	1	0.06	30	0.60	452	5	<0.01	49	1520	21	0.04	2	2	40
CC68872		<10	<1	0.06	20	1.13	387	4	<0.01	46	1330	17	0.04	<2	2	33
CC68873		<10	1	0.08	10	1.51	601	15	<0.01	158	1820	12	0.06	3	3	44
CC68874		<10	<1	0.06	10	0.83	593	9	<0.01	57	1480	12	0.08	6	1	48
CC68875		<10	1	0.10	20	1.00	613	7	<0.01	58	1760	13	0.06	2	2	45
CC68876		<10	<1	0.07	10	1.00	591	8	<0.01	64	1350	13	0.06	3	2	41
CC68877		<10	<1	0.06	10	1.27	593	9	<0.01	72	2150	10	0.04	3	2	47
CC68878		<10	<1	0.06	20	0.84	506	5	<0.01	66	1490	13	0.05	3	2	51
CC68879		<10	<1	0.06	10	1.24	1170	6	<0.01	79	1280	10	0.05	<2	2	44
CC68880		<10	<1	0.06	10	1.37	594	4	<0.01	65	970	9	0.03	<2	3	33

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC68841		<20	0.04	<10	<10	175	70	104
CC68842		<20	0.05	<10	<10	45	20	62
CC68843		<20	0.05	<10	<10	39	50	62
CC68844		<20	0.05	<10	<10	47	10	65
CC68845		<20	0.05	<10	<10	39	10	56
CC68846		<20	0.04	<10	<10	56	<10	450
CC68847		<20	0.06	<10	<10	144	<10	401
CC68848		<20	0.05	<10	<10	94	<10	321
CC68849		<20	0.03	<10	<10	48	<10	444
CC68850		<20	0.04	<10	<10	54	<10	156
CC68851		<20	0.03	<10	<10	48	<10	119
CC68852		<20	0.03	<10	<10	40	<10	127
CC68853		<20	0.01	<10	<10	29	<10	144
CC68854		<20	0.01	<10	<10	48	<10	181
CC68855		<20	0.03	<10	<10	36	<10	139
CC68856		<20	0.05	<10	<10	43	<10	99
CC68857		<20	0.10	<10	<10	46	<10	81
CC68858		<20	0.03	<10	<10	184	<10	913
CC68859		<20	0.02	<10	<10	113	<10	351
CC68860		<20	0.02	<10	<10	260	<10	1680
CC68861		<20	0.03	<10	<10	288	<10	1140
CC68862		<20	0.03	<10	<10	262	<10	623
CC68863		<20	0.02	<10	<10	174	<10	510
CC68864		<20	0.03	<10	<10	288	<10	1200
CC68865		<20	0.02	<10	<10	58	<10	237
CC68866		<20	0.05	<10	<10	56	<10	80
CC68867		<20	0.05	<10	<10	76	<10	70
CC68868		<20	0.05	<10	<10	64	<10	67
CC68869		<20	0.06	<10	<10	37	<10	99
CC68870		<20	0.03	<10	<10	27	<10	81
CC68871		<20	0.03	<10	<10	47	<10	191
CC68872		<20	0.03	<10	<10	47	<10	195
CC68873		<20	0.05	<10	<10	73	<10	904
CC68874		<20	0.03	<10	<10	71	<10	332
CC68875		<20	0.04	<10	<10	51	<10	254
CC68876		<20	0.03	<10	<10	59	<10	368
CC68877		<20	0.05	<10	<10	80	<10	410
CC68878		<20	0.03	<10	<10	54	<10	343
CC68879		<20	0.06	<10	<10	48	<10	514
CC68880		<20	0.05	<10	<10	45	<10	342

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68881		0.18	<0.001	0.5	1.44	5	<10	220	<0.5	<2	0.64	4.8	18	35	78	3.39
CC68882		0.20	0.001	1.1	1.10	14	<10	410	<0.5	<2	0.57	6.4	13	26	98	2.71
CC68883		0.14	0.005	3.4	1.66	40	<10	1240	0.5	2	0.79	7.3	10	59	103	3.28
CC68884		0.10	0.003	0.7	0.74	21	<10	270	<0.5	<2	2.03	3.2	7	22	47	1.74
CC68885		0.12	0.001	1.5	0.30	10	<10	200	<0.5	<2	0.22	0.6	1	16	21	1.01
CC68886		0.18	0.009	1.7	0.92	61	<10	290	<0.5	4	0.88	3.9	13	23	67	3.49
CC68887		0.22	0.001	0.3	0.88	7	<10	50	<0.5	<2	4.29	<0.5	14	12	39	3.85
CC68888		0.22	0.005	0.3	0.85	17	<10	160	<0.5	<2	1.50	2.6	12	16	53	3.59
CC68889		0.18	<0.001	0.4	1.13	13	<10	240	<0.5	2	1.33	2.0	11	20	43	3.36
CC68890		0.16	0.001	0.5	1.03	16	<10	330	<0.5	<2	1.00	2.5	11	21	43	3.23
CC68891		0.20	0.002	0.5	0.92	21	<10	270	<0.5	<2	1.36	2.6	10	17	46	3.66
CC68892		0.20	0.014	0.5	1.06	15	<10	300	<0.5	<2	1.02	1.8	9	25	54	2.57
CC68893		0.24	0.002	0.4	0.93	13	<10	170	<0.5	<2	2.05	1.1	9	20	35	2.83
CC68894		0.22	0.009	0.3	1.04	13	<10	180	<0.5	<2	0.79	0.8	9	22	33	2.68
CC68895		0.12	0.001	0.3	1.04	12	<10	190	<0.5	<2	1.68	0.7	8	21	27	2.40
CC68896		0.32	0.001	0.3	1.01	11	<10	120	<0.5	2	3.90	0.7	11	18	36	3.04
CC68897		0.22	0.002	0.4	1.17	13	<10	160	<0.5	<2	2.75	0.8	11	23	38	3.26
CC68898		0.18	0.005	0.2	1.31	13	<10	170	<0.5	<2	2.43	0.8	12	28	41	3.80
CC68899		0.16	0.001	0.4	1.39	13	<10	160	<0.5	2	1.61	0.9	11	26	40	4.05
CC68900		0.22	0.001	0.3	1.12	11	<10	150	<0.5	<2	3.35	0.7	12	25	49	3.29
CC68901		0.14	0.006	0.8	0.31	69	<10	100	<0.5	3	15.7	1.7	15	11	26	1.05
CC68902		0.14	0.002	0.9	3.76	14	<10	170	0.6	2	1.69	2.9	43	271	94	7.49
CC68903		0.16	0.007	0.3	3.22	9	<10	100	<0.5	3	6.60	<0.5	39	219	78	6.10
CC68904		0.16	0.007	0.4	1.96	22	<10	150	<0.5	2	2.19	0.7	39	96	90	4.83
CC68905		0.18	0.005	0.6	0.84	32	<10	90	<0.5	<2	19.9	1.0	9	24	25	1.93
CC68906		0.16	<0.001	<0.2	0.26	5	<10	30	<0.5	<2	>25.0	<0.5	2	7	5	0.90
CC68907		0.16	0.100	2.9	0.50	71	<10	170	<0.5	9	12.90	4.4	4	13	13	2.07
CC68908		0.22	0.010	0.4	0.28	67	<10	70	<0.5	3	15.1	1.2	3	5	4	1.39
CC68909		0.20	0.052	0.5	0.31	72	<10	80	<0.5	15	15.9	0.6	5	7	13	1.71
CC68910		0.16	0.053	1.9	2.43	197	<10	380	0.8	18	3.19	4.2	29	88	138	6.37
CC68911		0.18	0.006	0.4	2.86	21	<10	150	<0.5	2	5.25	0.5	33	134	96	6.06
CC68912		0.18	0.007	1.5	1.13	58	<10	350	0.5	3	1.53	6.8	39	62	97	6.99
CC68913		0.16	0.048	2.1	2.69	139	<10	170	0.5	11	2.91	2.4	41	193	118	7.49
CC68914		0.16	0.005	0.4	0.34	9	<10	60	<0.5	<2	13.50	0.7	4	11	9	0.74
CC68915		0.20	0.035	1.2	0.36	46	<10	70	<0.5	5	13.10	2.2	6	10	13	1.44
CC68916		0.14	0.006	0.4	0.12	12	<10	40	<0.5	<2	17.2	0.5	3	3	4	0.44
CC68917		0.24	0.002	0.3	0.10	7	<10	20	<0.5	<2	18.0	<0.5	2	3	2	0.34
CC68918		0.18	0.003	0.4	0.13	9	<10	30	<0.5	<2	17.7	0.5	2	3	3	0.38
CC68919		0.18	0.002	0.5	0.06	9	<10	30	<0.5	<2	18.4	0.8	2	2	1	0.33
CC68920		0.18	0.001	0.6	0.11	9	<10	50	<0.5	<2	18.0	1.5	2	3	2	0.42

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CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68881		<10	1	0.06	10	1.36	544	9	<0.01	73	1240	11	0.05	<2	3	41
CC68882		<10	<1	0.05	10	0.68	422	8	<0.01	64	1460	12	0.04	4	2	77
CC68883		10	2	0.10	10	0.58	344	32	<0.01	55	2820	43	0.12	15	2	389
CC68884		<10	1	0.03	10	0.41	439	5	0.01	31	1240	17	0.10	3	1	69
CC68885		<10	1	0.05	<10	0.04	69	12	0.01	12	750	5	0.06	6	1	28
CC68886		<10	1	0.04	10	0.56	621	7	0.01	62	1410	110	0.04	24	2	37
CC68887		<10	<1	0.03	10	1.73	565	1	0.01	24	670	24	0.01	3	2	52
CC68888		<10	1	0.04	10	1.04	611	3	0.01	36	1010	31	0.02	5	3	27
CC68889		<10	1	0.04	10	0.68	847	2	0.01	30	1030	21	0.06	<2	2	31
CC68890		<10	1	0.04	10	0.61	586	4	0.01	34	1080	22	0.05	<2	2	25
CC68891		<10	1	0.04	10	0.88	559	5	0.01	39	1130	28	0.04	4	2	34
CC68892		<10	1	0.05	10	0.64	322	5	0.01	45	1000	17	0.04	3	2	28
CC68893		<10	1	0.04	10	1.38	445	2	0.01	31	840	17	0.02	<2	2	34
CC68894		<10	1	0.05	10	0.53	429	1	0.01	27	990	22	0.04	3	2	23
CC68895		<10	1	0.05	10	0.67	396	1	0.01	22	590	23	0.06	2	2	27
CC68896		<10	1	0.05	10	2.54	521	1	0.01	25	790	24	0.02	<2	3	54
CC68897		<10	<1	0.05	10	1.70	475	2	0.01	30	800	22	0.03	<2	2	40
CC68898		<10	1	0.04	10	1.73	541	2	0.01	37	770	18	0.02	<2	3	38
CC68899		<10	1	0.04	20	1.49	503	2	0.01	33	710	20	0.02	<2	3	24
CC68900		<10	<1	0.04	10	1.97	432	2	0.01	36	780	18	0.03	<2	2	45
CC68901		<10	<1	0.02	10	9.58	1175	3	0.02	43	1060	362	<0.01	11	1	61
CC68902		10	1	0.09	30	3.25	1495	1	0.01	179	1510	167	0.09	3	9	31
CC68903		10	1	0.20	20	2.62	929	<1	0.01	160	1560	16	0.06	<2	6	59
CC68904		10	1	0.07	20	1.18	1205	1	0.01	106	1330	33	0.16	<2	2	24
CC68905		<10	<1	0.05	10	0.56	655	<1	0.01	21	830	69	<0.01	2	1	88
CC68906		<10	1	0.03	<10	0.32	313	<1	0.01	6	330	15	<0.01	<2	1	122
CC68907		<10	1	0.02	10	8.53	1065	1	0.02	15	930	246	0.05	2	1	56
CC68908		<10	<1	0.01	<10	9.44	767	2	0.02	5	360	53	0.03	<2	1	53
CC68909		<10	<1	0.02	10	9.83	554	5	0.02	28	1050	62	<0.01	2	1	66
CC68910		10	1	0.09	30	2.30	1455	10	0.02	200	5330	398	0.08	13	7	46
CC68911		10	<1	0.09	20	2.68	930	<1	0.01	98	1620	75	0.06	<2	6	38
CC68912		<10	1	0.07	20	0.73	3110	10	0.01	131	3160	459	0.11	6	4	56
CC68913		10	1	0.15	20	2.79	1945	3	0.01	166	1940	1240	0.08	8	7	38
CC68914		<10	<1	0.01	<10	8.85	719	1	0.02	13	1320	42	0.09	<2	1	58
CC68915		<10	1	0.02	<10	8.79	666	2	0.02	17	780	334	0.04	3	1	52
CC68916		<10	<1	0.01	<10	10.60	493	4	0.02	9	400	22	<0.01	<2	<1	69
CC68917		<10	<1	<0.01	<10	11.25	277	2	0.02	6	220	6	<0.01	<2	<1	69
CC68918		<10	<1	0.01	<10	10.90	347	2	0.02	4	340	29	<0.01	<2	<1	67
CC68919		<10	<1	<0.01	<10	11.50	420	2	0.02	2	140	46	<0.01	<2	<1	60
CC68920		<10	<1	<0.01	<10	11.15	581	2	0.02	4	350	111	<0.01	2	<1	60

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CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC68881		<20	0.05	<10	<10	56	<10	506
CC68882		<20	0.03	<10	<10	59	<10	460
CC68883		<20	0.02	<10	<10	253	<10	365
CC68884		<20	0.01	<10	10	116	<10	129
CC68885		<20	0.01	<10	<10	85	<10	118
CC68886		<20	0.01	<10	<10	43	<10	244
CC68887		<20	0.01	<10	<10	11	<10	79
CC68888		<20	0.02	<10	<10	28	<10	155
CC68889		<20	0.01	<10	<10	28	<10	139
CC68890		<20	0.02	<10	<10	36	<10	176
CC68891		<20	0.02	<10	<10	37	<10	193
CC68892		<20	0.03	<10	<10	51	<10	191
CC68893		<20	0.03	<10	<10	36	<10	123
CC68894		<20	0.03	<10	<10	37	<10	137
CC68895		<20	0.02	<10	<10	31	<10	143
CC68896		<20	0.02	<10	<10	28	<10	119
CC68897		<20	0.03	<10	<10	34	<10	115
CC68898		<20	0.03	<10	<10	36	<10	112
CC68899		<20	0.03	<10	<10	35	<10	110
CC68900		<20	0.02	<10	<10	31	<10	110
CC68901		<20	0.01	<10	<10	39	<10	673
CC68902		<20	0.06	<10	<10	111	<10	678
CC68903		<20	0.06	<10	<10	86	<10	142
CC68904		<20	0.02	<10	<10	49	<10	161
CC68905		<20	0.01	<10	<10	17	<10	388
CC68906		<20	0.01	<10	<10	8	<10	100
CC68907		<20	0.01	<10	<10	25	<10	424
CC68908		<20	0.01	<10	<10	23	<10	157
CC68909		<20	0.01	<10	<10	28	20	147
CC68910		<20	0.04	<10	20	122	<10	1530
CC68911		<20	0.04	<10	<10	70	<10	399
CC68912		<20	0.01	<10	<10	61	<10	1340
CC68913		<20	0.05	<10	<10	92	10	1350
CC68914		<20	<0.01	<10	<10	17	<10	159
CC68915		<20	0.01	<10	<10	22	<10	601
CC68916		<20	<0.01	<10	<10	19	<10	71
CC68917		<20	<0.01	<10	<10	17	<10	35
CC68918		<20	<0.01	<10	<10	14	<10	105
CC68919		<20	<0.01	<10	<10	6	<10	149
CC68920		<20	<0.01	<10	<10	18	<10	248

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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68921		0.18	0.002	0.6	0.12	9	<10	30	<0.5	<2	18.6	0.9	2	3	4	0.37
CC68922		0.16	0.009	1.6	0.66	29	<10	220	<0.5	6	1.19	3.3	11	13	19	3.26
CC68923		0.16	0.003	0.5	0.54	18	<10	140	<0.5	3	3.45	1.5	9	10	16	2.41
CC68924		0.16	0.003	0.5	0.36	18	<10	70	<0.5	<2	8.66	1.0	7	9	15	1.81
CC68925		0.14	0.002	1.1	0.28	17	<10	100	<0.5	<2	9.44	4.2	5	7	9	1.16
CC68926		0.18	0.002	0.6	0.12	13	<10	70	<0.5	<2	15.7	1.9	3	5	4	0.65
CC68927		0.20	0.015	1.3	0.27	39	<10	150	<0.5	<2	11.25	3.9	7	9	13	1.83
CC68928		0.14	0.019	0.6	0.16	20	<10	80	<0.5	<2	13.30	1.0	5	5	8	0.90
CC68929		0.14	0.008	0.7	0.24	21	<10	50	<0.5	2	12.85	1.4	5	6	7	1.15
CC68930		0.16	0.005	0.4	0.15	18	<10	30	<0.5	<2	15.1	<0.5	4	5	7	0.88
CC68931		0.16	0.007	0.7	0.20	16	<10	60	<0.5	<2	15.9	1.4	3	7	5	0.58
CC68932		0.22	0.036	0.7	0.14	12	<10	40	<0.5	<2	17.9	1.9	3	4	4	0.54
CC68933		0.16	0.009	0.9	0.22	18	<10	110	<0.5	2	16.5	1.9	4	8	7	1.01
CC68934		0.16	0.006	0.8	0.67	15	<10	130	<0.5	<2	12.05	1.7	8	27	19	1.62
CC68935		0.18	0.030	1.9	1.10	47	<10	370	0.5	3	7.01	2.8	19	48	62	3.62
CC68936		0.18	0.019	1.1	0.76	139	<10	130	<0.5	72	11.75	1.8	6	19	28	3.34
CC68937		0.20	0.013	0.5	0.17	22	<10	60	<0.5	3	16.6	1.5	2	4	4	0.69
CC68938		0.14	0.012	1.0	0.62	32	<10	100	<0.5	3	11.65	1.2	5	13	11	1.73
CC68939		0.16	0.079	0.4	0.34	34	<10	60	<0.5	2	14.6	<0.5	5	7	8	1.16
CC68940		0.14	0.006	0.4	0.35	18	<10	70	<0.5	<2	15.9	0.6	4	7	8	0.97
CC68941		0.16	0.003	0.6	0.07	12	<10	20	<0.5	<2	19.0	<0.5	2	2	<1	0.28
CC68942		0.18	0.009	0.3	0.49	19	<10	70	<0.5	3	11.75	0.5	5	8	8	1.14
CC68943		0.20	0.024	0.9	0.58	23	<10	80	<0.5	4	12.85	1.5	5	10	9	1.55
CC68944		0.22	0.007	0.2	0.09	10	<10	80	<0.5	<2	18.4	0.7	2	2	2	0.34
CC68945		0.20	0.001	0.5	0.08	13	<10	20	<0.5	<2	18.2	1.0	3	5	2	0.37
CC68946		0.18	0.012	0.7	0.28	46	<10	50	<0.5	5	15.6	0.8	5	8	8	1.33
CC68947		0.18	0.008	0.5	0.12	16	<10	50	<0.5	2	17.7	<0.5	3	4	4	0.62
CC68948		0.16	0.002	0.4	0.28	10	<10	80	<0.5	<2	16.3	0.9	3	7	4	0.79
CC68949		0.18	0.005	0.7	0.47	22	<10	80	<0.5	2	12.10	2.1	5	11	9	1.33
CC68950		0.16	<0.001	0.3	0.10	12	<10	20	<0.5	<2	17.3	<0.5	3	5	3	0.43
CC68951		0.18	0.007	0.5	0.15	17	<10	50	<0.5	<2	16.6	0.7	4	6	5	0.66
CC68952		0.16	0.036	1.1	2.04	106	<10	140	<0.5	19	8.35	1.5	28	94	81	5.61
CC68953		0.20	0.077	1.6	0.60	148	<10	160	<0.5	14	13.20	2.6	8	27	26	3.10
CC68954		0.20	0.016	1.6	0.33	22	<10	80	<0.5	2	16.1	2.5	4	7	8	0.96
CC68955		0.16	0.035	1.5	0.40	37	<10	120	<0.5	3	10.10	3.0	8	8	15	1.88
CC68956		0.18	0.010	1.2	0.34	33	<10	90	<0.5	7	12.40	4.3	5	10	11	1.50
CC68957		0.18	0.018	0.9	0.23	127	<10	90	<0.5	10	13.80	3.8	4	8	14	1.83
CC68958		0.16	0.008	0.5	0.25	19	<10	60	<0.5	<2	12.75	0.8	5	7	10	1.07
CC68959		0.12	0.013	0.5	0.49	23	<10	60	<0.5	3	12.50	0.8	7	7	12	1.53
CC68960		0.16	0.005	0.5	0.18	12	<10	80	<0.5	<2	16.5	1.2	3	8	6	0.67

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68921		<10	<1	0.01	<10	11.60	387	3	0.02	6	210	61	<0.01	<2	<1	75
CC68922		<10	1	0.04	20	0.45	4120	3	0.01	26	850	252	0.18	2	2	17
CC68923		<10	1	0.03	10	1.70	1470	3	0.01	16	1090	84	0.12	<2	1	28
CC68924		<10	<1	0.02	10	5.55	918	5	0.02	15	700	66	0.09	2	1	54
CC68925		<10	<1	0.02	10	5.97	1900	4	0.02	12	600	372	0.09	<2	<1	46
CC68926		<10	1	0.01	<10	9.66	892	3	0.02	11	300	117	<0.01	<2	1	72
CC68927		<10	1	0.02	10	7.39	2170	6	0.02	28	820	372	0.05	3	1	57
CC68928		<10	<1	0.01	10	8.72	911	4	0.02	15	490	101	0.05	2	1	78
CC68929		<10	<1	0.02	10	8.35	627	5	0.02	14	970	110	0.06	<2	1	63
CC68930		<10	<1	0.01	<10	9.30	348	4	0.02	12	290	21	0.04	<2	1	69
CC68931		<10	<1	0.01	<10	9.78	819	3	0.02	9	640	105	<0.01	<2	1	66
CC68932		<10	1	0.01	<10	11.20	720	3	0.02	7	280	151	<0.01	<2	1	67
CC68933		<10	<1	0.01	<10	10.10	1420	4	0.02	14	670	151	<0.01	2	1	76
CC68934		<10	<1	0.02	10	8.19	1035	2	0.02	27	1250	137	0.06	<2	1	55
CC68935		<10	<1	0.03	20	4.41	1575	4	0.02	77	1960	335	0.10	8	2	53
CC68936		<10	<1	0.04	10	7.82	938	2	0.02	32	2360	165	0.05	7	2	54
CC68937		<10	<1	0.01	<10	10.25	650	3	0.02	11	700	132	<0.01	<2	1	66
CC68938		<10	<1	0.02	10	7.74	968	4	0.02	20	1080	86	0.07	2	1	56
CC68939		<10	<1	0.01	10	8.93	635	8	0.02	20	1240	21	0.05	<2	1	63
CC68940		<10	<1	0.01	<10	9.75	820	6	0.02	14	920	28	<0.01	<2	1	68
CC68941		<10	<1	<0.01	<10	11.85	312	2	0.02	3	160	13	<0.01	<2	<1	78
CC68942		<10	<1	0.02	10	7.80	761	7	0.02	12	1150	17	0.07	<2	1	48
CC68943		<10	1	0.02	10	8.58	792	2	0.02	13	660	58	0.06	<2	1	57
CC68944		<10	1	<0.01	<10	11.50	373	2	0.02	5	220	30	<0.01	<2	<1	78
CC68945		<10	<1	<0.01	<10	11.30	324	3	0.02	5	150	46	<0.01	<2	1	64
CC68946		<10	<1	0.01	<10	9.75	476	3	0.02	16	460	106	0.02	<2	1	64
CC68947		<10	1	0.01	<10	11.05	456	5	0.02	10	520	25	<0.01	<2	1	69
CC68948		<10	1	0.01	<10	10.05	752	2	0.02	8	530	44	<0.01	<2	1	65
CC68949		<10	1	0.02	10	8.12	993	4	0.02	16	670	162	0.06	<2	1	56
CC68950		<10	<1	0.01	<10	10.80	270	3	0.02	6	230	14	<0.01	2	1	68
CC68951		<10	1	0.01	<10	10.30	446	6	0.02	12	270	38	<0.01	2	1	69
CC68952		10	<1	0.07	20	3.46	871	2	0.02	100	2160	124	0.05	3	5	52
CC68953		<10	<1	0.02	10	8.87	1475	4	0.02	37	1050	489	0.04	6	2	74
CC68954		<10	<1	0.01	<10	9.86	1275	3	0.02	9	680	722	<0.01	3	1	61
CC68955		<10	<1	0.01	10	6.39	1455	5	0.02	19	1290	213	0.08	3	1	50
CC68956		<10	1	0.01	10	8.15	1700	3	0.02	13	820	258	0.05	2	1	56
CC68957		<10	1	0.01	10	9.45	1055	2	0.02	10	330	110	0.02	2	1	52
CC68958		<10	<1	0.02	<10	8.53	631	3	0.02	12	850	50	0.06	<2	1	50
CC68959		<10	1	0.02	10	8.22	639	4	0.02	19	980	64	0.06	<2	1	58
CC68960		<10	<1	0.01	<10	10.25	778	2	0.02	8	340	89	<0.01	<2	1	53

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC68921		<20	<0.01	<10	<10	17	<10	126
CC68922		<20	0.01	<10	<10	23	<10	717
CC68923		<20	0.01	<10	<10	21	<10	370
CC68924		<20	0.01	<10	<10	20	<10	197
CC68925		<20	0.01	<10	<10	25	<10	801
CC68926		<20	<0.01	<10	<10	13	<10	442
CC68927		<20	0.01	<10	<10	28	<10	1150
CC68928		<20	<0.01	<10	<10	16	<10	433
CC68929		<20	<0.01	<10	<10	22	<10	312
CC68930		<20	<0.01	<10	<10	14	<10	72
CC68931		<20	<0.01	<10	<10	17	<10	388
CC68932		<20	<0.01	<10	<10	18	<10	396
CC68933		<20	<0.01	<10	<10	35	<10	495
CC68934		<20	0.01	<10	<10	48	<10	355
CC68935		<20	0.01	<10	<10	69	<10	611
CC68936		<20	0.02	<10	10	36	<10	557
CC68937		<20	<0.01	<10	10	35	<10	309
CC68938		<20	0.01	<10	<10	60	<10	235
CC68939		<20	0.01	<10	10	54	10	112
CC68940		<20	0.01	<10	<10	49	<10	124
CC68941		<20	<0.01	<10	<10	10	<10	36
CC68942		<20	0.01	<10	<10	33	<10	65
CC68943		<20	0.01	<10	<10	53	<10	176
CC68944		<20	<0.01	<10	<10	29	<10	199
CC68945		<20	<0.01	<10	<10	10	<10	179
CC68946		<20	0.01	<10	<10	33	<10	244
CC68947		<20	<0.01	<10	<10	30	<10	60
CC68948		<20	0.01	<10	<10	21	<10	196
CC68949		<20	0.01	<10	<10	24	<10	478
CC68950		<20	<0.01	<10	<10	9	<10	65
CC68951		<20	0.01	<10	<10	11	<10	119
CC68952		<20	0.04	<10	<10	61	<10	553
CC68953		<20	0.01	<10	<10	40	10	819
CC68954		<20	0.01	<10	<10	25	<10	639
CC68955		<20	0.01	<10	<10	31	<10	750
CC68956		<20	0.01	<10	<10	29	10	717
CC68957		<20	0.01	<10	<10	29	<10	763
CC68958		<20	0.01	<10	<10	27	<10	172
CC68959		<20	0.01	<10	<10	47	<10	241
CC68960		<20	0.01	<10	<10	24	<10	346

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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC68961		0.16	0.007	0.4	1.02	15	<10	90	<0.5	<2	6.33	1.0	7	16	12	1.79
CC68962		0.18	0.005	0.5	0.37	12	<10	60	<0.5	<2	11.85	0.8	4	6	7	0.87
CC68963		0.16	0.003	0.3	0.88	15	<10	90	<0.5	<2	6.63	1.1	7	13	13	1.68
CC68964		0.18	0.001	<0.2	0.39	11	<10	50	<0.5	<2	11.75	0.5	4	7	6	0.92
CC68965		0.18	0.003	0.3	0.52	11	<10	70	<0.5	<2	8.97	0.6	5	10	8	1.23
CC68966		0.18	0.002	0.2	0.68	12	<10	80	<0.5	<2	7.76	0.6	6	12	9	1.36
CC68967		0.18	0.007	0.3	0.54	12	<10	60	<0.5	<2	9.99	0.7	4	9	7	1.04
CC68968		0.14	0.003	0.3	0.55	8	<10	70	<0.5	<2	8.92	0.5	5	9	8	1.11
CC68969		0.16	0.004	0.3	1.23	15	<10	120	<0.5	<2	4.52	0.6	8	19	13	2.12
CC68970		0.16	<0.001	0.2	0.39	10	<10	50	<0.5	<2	11.55	0.5	4	7	5	0.83
CC68971		0.18	0.003	<0.2	0.53	8	<10	60	<0.5	<2	10.05	0.6	5	10	8	1.12
CC68972		0.16	0.002	0.4	0.40	12	<10	110	<0.5	<2	11.50	0.6	4	6	5	0.81
CC68973		0.16	0.002	0.3	0.45	11	<10	60	<0.5	<2	11.45	0.7	4	8	6	0.87
CC68974		0.18	0.001	0.3	0.53	11	<10	70	<0.5	<2	11.90	0.8	4	8	6	0.97
CC68975		0.16	<0.001	0.2	0.66	12	<10	90	<0.5	<2	9.13	0.8	5	9	6	1.21
CC68976		0.16	<0.001	0.4	0.29	7	<10	60	<0.5	<2	14.6	0.7	3	4	3	0.63
CC68977		0.18	<0.001	0.2	1.40	12	<10	110	0.6	3	4.36	0.8	8	20	11	2.20
CC68978		0.16	0.001	0.5	0.41	7	<10	50	<0.5	<2	12.50	0.6	4	5	3	0.62
CC68979		0.18	0.002	0.3	0.59	11	<10	80	<0.5	<2	11.10	0.7	5	11	6	1.15
CC68980		0.16	0.003	0.4	0.43	11	<10	60	<0.5	<2	10.15	0.6	5	8	7	1.02
CC68981		0.16	0.003	<0.2	1.15	17	<10	130	0.5	2	0.55	0.9	9	22	13	2.53
CC68982		0.14	<0.001	0.2	1.61	14	<10	160	0.5	<2	1.21	1.3	11	26	11	3.05
CC68983		0.18	0.001	<0.2	1.90	17	<10	150	0.5	<2	0.95	1.2	9	27	11	3.01
CC68984		0.20	0.003	0.2	1.61	22	<10	170	0.7	<2	0.52	0.5	9	27	10	2.90
CC68985		0.16	<0.001	0.3	0.86	21	<10	140	<0.5	<2	8.22	1.7	6	13	9	1.76
CC68986		0.18	0.002	0.3	1.42	19	<10	180	0.5	<2	2.64	0.6	10	25	23	2.60
CC68987		0.14	<0.001	0.3	1.12	15	<10	110	<0.5	<2	4.19	0.9	8	18	11	1.98
CC68988		0.24	0.004	0.5	1.79	38	<10	160	0.8	3	0.37	0.8	12	32	19	3.30
CC68989		0.16	0.001	0.3	0.84	47	<10	100	<0.5	<2	6.83	1.0	5	11	8	1.32
CC68990		0.14	0.002	0.3	0.88	26	<10	70	<0.5	<2	7.73	0.6	6	13	9	1.53
CC68991		0.12	0.004	0.5	1.22	25	<10	110	0.5	<2	3.46	1.0	8	19	11	2.48
CC68992		0.14	0.002	0.2	1.10	22	<10	110	<0.5	<2	4.03	<0.5	7	18	10	2.22
CC68993		0.14	0.001	<0.2	1.28	52	<10	160	0.6	2	1.41	0.9	9	20	11	2.81
CC68994		0.18	0.003	0.3	1.14	25	<10	160	0.5	<2	1.71	0.7	7	20	11	2.49
CC68995		0.18	0.001	0.2	1.44	14	<10	130	0.5	<2	2.04	0.9	6	24	7	2.52
CC68996		0.18	0.002	0.2	0.78	49	<10	100	<0.5	<2	6.32	<0.5	6	13	13	1.93
CC68997		0.16	0.001	0.4	1.14	26	<10	140	0.5	<2	2.47	1.0	7	19	10	2.44
CC68998		0.20	<0.001	0.2	1.53	19	<10	190	0.6	<2	1.11	0.7	9	25	13	2.77
CC68999		0.20	0.001	0.4	1.26	31	<10	210	0.6	<2	1.40	1.8	10	22	15	2.84
CC69000		0.20	0.010	0.2	1.13	29	<10	150	0.5	<2	2.39	0.9	8	21	15	2.74

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC68961		<10	1	0.03	10	4.09	707	1	0.02	14	930	32	0.08	<2	1	19
CC68962		<10	<1	0.01	<10	8.11	709	<1	0.02	8	870	29	0.05	<2	1	28
CC68963		<10	<1	0.03	10	4.42	907	1	0.02	16	1140	46	0.07	<2	1	22
CC68964		<10	<1	0.02	<10	8.15	382	1	0.02	8	510	22	0.02	<2	1	27
CC68965		<10	1	0.02	10	6.03	442	<1	0.02	10	720	26	0.03	<2	1	25
CC68966		<10	1	0.03	10	5.37	590	<1	0.01	10	820	24	0.04	<2	1	22
CC68967		<10	<1	0.02	<10	6.81	455	<1	0.02	8	760	27	0.03	<2	1	24
CC68968		<10	<1	0.02	<10	6.01	648	<1	0.02	8	850	17	0.05	2	1	22
CC68969		10	1	0.04	10	2.88	729	<1	0.02	17	980	27	0.05	<2	2	17
CC68970		<10	<1	0.02	<10	7.88	399	<1	0.02	7	660	22	0.03	<2	1	26
CC68971		<10	<1	0.02	10	6.84	397	1	0.02	9	670	14	0.02	<2	1	26
CC68972		<10	<1	0.02	<10	7.76	763	<1	0.02	6	810	17	0.04	<2	1	26
CC68973		<10	<1	0.02	<10	7.80	530	<1	0.02	6	760	16	0.04	<2	1	27
CC68974		<10	<1	0.02	<10	8.12	709	1	0.02	5	930	20	0.04	<2	1	25
CC68975		<10	<1	0.02	<10	6.01	927	<1	0.02	6	1190	26	0.06	<2	1	21
CC68976		<10	<1	0.01	<10	9.13	620	<1	0.02	3	870	16	0.04	<2	<1	28
CC68977		<10	<1	0.03	10	2.62	1055	1	0.01	13	1250	29	0.07	<2	1	15
CC68978		<10	<1	0.01	<10	8.53	542	<1	0.02	3	990	14	0.04	<2	<1	25
CC68979		<10	<1	0.03	10	7.73	514	<1	0.02	8	760	24	0.02	<2	1	35
CC68980		<10	<1	0.03	<10	6.86	365	1	0.02	11	570	13	0.02	<2	1	28
CC68981		<10	<1	0.04	10	0.46	695	1	0.01	21	670	26	0.03	<2	2	13
CC68982		10	<1	0.05	10	0.80	737	1	0.01	18	730	24	0.04	<2	2	13
CC68983		10	1	0.04	10	0.63	610	1	0.01	18	710	24	0.04	<2	2	12
CC68984		<10	<1	0.03	20	0.48	685	<1	0.01	21	750	33	0.03	<2	3	12
CC68985		<10	<1	0.03	10	5.41	1480	1	0.02	12	1270	31	0.05	<2	1	25
CC68986		<10	1	0.05	10	1.78	603	1	0.02	24	840	25	0.02	<2	3	21
CC68987		<10	<1	0.04	10	2.50	641	1	0.01	14	890	22	0.05	<2	2	18
CC68988		10	1	0.05	20	0.64	657	1	0.01	31	340	32	0.02	<2	5	13
CC68989		<10	<1	0.03	10	4.57	716	1	0.01	8	860	16	0.05	<2	1	18
CC68990		<10	<1	0.04	10	5.20	488	1	0.02	11	960	15	0.05	<2	1	23
CC68991		<10	1	0.04	10	2.06	657	1	0.01	17	990	37	0.06	2	2	17
CC68992		<10	<1	0.04	10	2.61	495	1	0.01	17	750	21	0.04	<2	2	18
CC68993		<10	1	0.04	10	0.82	1120	1	0.01	22	730	39	0.07	<2	2	12
CC68994		<10	<1	0.04	10	0.98	685	1	0.01	18	910	42	0.05	<2	2	14
CC68995		<10	<1	0.04	10	1.03	443	<1	0.01	13	860	18	0.06	<2	2	13
CC68996		<10	<1	0.05	10	4.24	625	1	0.01	20	800	23	0.02	<2	2	26
CC68997		<10	<1	0.04	10	1.47	515	1	0.01	19	830	31	0.04	<2	2	14
CC68998		<10	<1	0.05	10	0.58	660	1	0.02	18	870	27	0.07	<2	2	15
CC68999		<10	<1	0.05	10	0.90	982	1	0.01	25	700	37	0.04	<2	2	12
CC69000		<10	<1	0.05	10	1.51	781	1	0.01	24	880	26	0.04	<2	2	16

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Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC68961		<20	0.02	<10	<10	29	<10	188
CC68962		<20	0.01	<10	<10	16	<10	194
CC68963		<20	0.02	<10	<10	35	<10	255
CC68964		<20	0.01	<10	<10	16	<10	100
CC68965		<20	0.02	<10	<10	20	<10	129
CC68966		<20	0.02	<10	<10	24	<10	121
CC68967		<20	0.02	<10	<10	18	<10	120
CC68968		<20	0.01	<10	<10	18	<10	115
CC68969		<20	0.02	<10	<10	36	<10	140
CC68970		<20	0.01	<10	<10	14	<10	106
CC68971		<20	0.02	<10	<10	19	<10	76
CC68972		<20	0.01	<10	<10	14	<10	121
CC68973		<20	0.01	<10	<10	14	<10	105
CC68974		<20	0.01	<10	<10	15	<10	128
CC68975		<20	0.01	<10	<10	20	<10	178
CC68976		<20	0.01	<10	<10	10	<10	140
CC68977		<20	0.02	<10	<10	40	<10	169
CC68978		<20	0.01	<10	<10	9	<10	126
CC68979		<20	0.02	<10	<10	20	<10	128
CC68980		<20	0.02	<10	<10	18	<10	95
CC68981		<20	0.03	<10	<10	41	<10	127
CC68982		<20	0.03	<10	<10	60	<10	242
CC68983		<20	0.03	<10	<10	57	<10	175
CC68984		<20	0.03	<10	<10	49	<10	146
CC68985		<20	0.01	<10	<10	28	<10	283
CC68986		<20	0.03	<10	<10	43	<10	143
CC68987		<20	0.02	<10	<10	35	<10	145
CC68988		<20	0.03	<10	<10	55	<10	187
CC68989		<20	0.01	<10	<10	25	<10	165
CC68990		<20	0.02	<10	<10	24	<10	96
CC68991		<20	0.02	<10	<10	36	<10	117
CC68992		<20	0.02	<10	<10	34	<10	119
CC68993		<20	0.02	<10	<10	44	<10	150
CC68994		<20	0.02	<10	<10	37	<10	144
CC68995		<20	0.02	<10	<10	47	<10	179
CC68996		<20	0.01	<10	<10	25	<10	128
CC68997		<20	0.02	<10	<10	35	<10	182
CC68998		<20	0.02	<10	<10	47	<10	117
CC68999		<20	0.02	<10	<10	39	<10	193
CC69000		<20	0.02	<10	<10	38	<10	241

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC33915		0.26	0.004	0.2	0.38	80	<10	60	0.6	<2	7.09	4.7	21	6	44	7.45
CC33916		0.18	0.001	<0.2	0.40	9	<10	70	<0.5	<2	9.92	1.3	3	7	8	0.83
CC33917		0.34	0.002	0.2	0.10	21	<10	80	<0.5	<2	15.9	0.9	2	2	11	0.54
CC33918		0.20	0.006	<0.2	1.17	13	<10	140	0.5	<2	0.68	0.5	9	22	17	2.48
CC33919		0.20	<0.001	0.2	0.43	11	<10	70	<0.5	<2	14.3	0.6	3	7	6	0.78
CC33920		0.22	<0.001	1.1	0.50	39	<10	410	<0.5	2	8.90	3.2	4	9	18	1.68
CC33921		0.30	0.002	1.6	1.13	64	<10	210	0.9	2	1.90	1.9	10	19	80	8.97
CC33922		0.22	0.003	0.3	0.88	13	<10	130	<0.5	<2	5.94	<0.5	5	13	12	5.88
CC33923		0.20	<0.001	0.3	1.30	16	<10	120	0.6	<2	4.22	<0.5	10	29	17	4.08
CC33924		0.24	<0.001	1.2	0.79	162	<10	160	0.6	<2	8.45	1.5	14	19	52	5.13
CC68731		0.20	<0.001	0.3	0.25	18	<10	30	<0.5	<2	4.98	<0.5	10	4	35	2.68
CC68732		0.12	0.010	3.3	1.12	26	<10	1250	<0.5	<2	1.31	6.7	8	57	115	2.95
CC68733		0.16	0.003	3.3	1.24	56	<10	380	<0.5	<2	0.57	13.8	16	120	84	4.50
CC68734		0.12	NSS	1.7	0.91	15	<10	1050	<0.5	<2	1.05	8.3	4	35	104	3.01
CC68735		0.12	NSS	1.7	1.32	18	<10	210	<0.5	<2	0.18	7.7	14	28	111	4.76
CC68736		0.20	0.009	1.5	1.16	18	<10	260	<0.5	<2	0.28	2.7	12	26	103	4.02
CC68737		0.12	NSS	1.5	0.52	15	<10	200	<0.5	<2	0.06	3.7	2	21	30	1.52
CC68738		0.16	0.008	4.5	1.26	43	<10	380	<0.5	<2	0.28	1.2	4	57	119	2.75
CC68739		0.14	0.001	1.2	0.43	25	<10	420	<0.5	<2	0.17	0.7	1	29	47	1.59
CC68740		0.14	<0.001	3.9	1.84	34	<10	510	<0.5	<2	0.12	1.4	3	69	88	3.15
CC68741		0.14	NSS	1.0	1.88	22	<10	230	<0.5	2	0.07	2.2	16	79	184	4.82
CC68742		0.14	NSS	0.7	1.42	5	<10	190	<0.5	<2	0.12	5.0	12	25	31	2.91
CC68743		0.12	0.004	0.4	1.31	6	<10	210	<0.5	2	0.08	0.9	8	23	37	2.50
CC68744		0.10	0.009	0.5	0.84	7	<10	100	<0.5	<2	0.17	2.3	14	16	93	4.05
CC68745		0.14	0.003	0.2	0.49	27	<10	70	<0.5	<2	11.80	0.5	3	9	9	1.05
CC68746		0.20	0.005	0.4	1.56	17	<10	200	0.7	<2	0.61	<0.5	8	27	12	2.96
CC68747		0.16	0.003	0.3	1.11	14	<10	150	0.5	<2	3.03	0.5	6	18	11	2.27
CC68748		0.20	0.004	<0.2	1.43	21	<10	150	0.6	<2	0.38	0.5	8	25	13	2.92
CC68749		0.14	0.002	0.2	1.60	16	<10	150	0.5	<2	1.27	0.6	7	25	11	2.84
CC68750		0.16	0.001	<0.2	1.35	26	<10	160	0.5	6	0.95	1.5	8	19	12	2.64

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Finalized Date: 3-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100029

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC33915		<10	<1	0.02	20	4.73	332	1	0.01	37	1510	52	0.02	7	1	28
CC33916		<10	<1	0.02	10	6.59	487	<1	0.02	9	390	182	0.02	<2	1	25
CC33917		<10	<1	0.01	10	9.94	684	<1	0.02	9	380	215	<0.01	3	<1	30
CC33918		<10	<1	0.04	10	0.63	442	1	0.02	25	540	21	0.03	<2	2	15
CC33919		<10	<1	0.02	10	9.00	323	<1	0.02	8	510	26	0.02	2	1	25
CC33920		<10	<1	0.03	10	5.75	2700	<1	0.02	15	530	246	0.02	4	2	25
CC33921		<10	1	0.07	40	0.95	619	43	0.01	109	3460	82	0.09	14	3	59
CC33922		<10	<1	0.03	10	4.09	1050	5	0.02	27	450	23	0.04	<2	2	24
CC33923		<10	<1	0.04	10	3.00	847	3	0.02	25	870	26	0.05	2	3	23
CC33924		<10	<1	0.07	20	5.10	1610	33	0.02	76	2120	84	0.03	17	4	69
CC68731		<10	<1	0.02	10	2.87	432	1	0.01	19	590	34	0.03	9	2	67
CC68732		<10	1	0.14	10	0.84	163	13	0.03	93	2140	18	0.27	13	2	130
CC68733		<10	<1	0.32	10	1.13	307	16	0.02	179	1770	20	0.59	22	5	113
CC68734		<10	<1	0.19	10	0.29	124	25	0.04	74	2190	15	0.34	5	1	111
CC68735		<10	<1	0.18	20	1.06	234	28	0.03	143	1600	9	0.39	4	2	79
CC68736		<10	1	0.21	10	0.85	142	27	0.02	124	2250	12	0.38	4	1	112
CC68737		<10	<1	0.09	10	0.17	73	12	0.01	15	970	15	0.14	4	<1	49
CC68738		<10	1	0.16	10	0.84	160	21	0.01	56	3690	15	0.26	12	2	116
CC68739		<10	1	0.07	10	0.06	80	31	0.01	20	1030	19	0.10	14	<1	76
CC68740		<10	1	0.16	10	1.29	101	17	0.02	115	2200	12	0.21	10	1	194
CC68741		<10	<1	0.10	10	1.14	259	9	0.02	131	1030	10	0.18	3	4	90
CC68742		<10	<1	0.10	10	0.71	433	3	0.01	36	1210	10	0.05	<2	2	16
CC68743		<10	<1	0.11	10	0.39	295	6	0.01	33	590	12	0.02	<2	1	12
CC68744		<10	<1	0.07	10	0.28	747	11	0.01	83	2340	36	0.04	<2	<1	19
CC68745		<10	<1	0.03	10	7.35	455	1	0.02	7	950	13	0.05	<2	1	29
CC68746		<10	<1	0.06	10	0.56	528	1	0.01	23	700	24	0.03	<2	2	13
CC68747		<10	<1	0.04	10	1.64	525	1	0.02	16	810	19	0.06	<2	2	19
CC68748		<10	<1	0.04	10	0.43	572	1	0.01	24	560	46	0.03	<2	2	10
CC68749		<10	<1	0.04	10	0.79	561	1	0.02	18	890	21	0.06	<2	2	13
CC68750		<10	<1	0.03	10	0.51	797	1	0.01	19	870	28	0.03	<2	2	12

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC33915		<20	0.02	<10	<10	57	<10	1120
CC33916		<20	0.02	<10	<10	17	<10	173
CC33917		<20	<0.01	<10	<10	11	<10	366
CC33918		<20	0.03	<10	<10	43	<10	109
CC33919		<20	0.01	<10	<10	12	<10	175
CC33920		<20	0.02	<10	<10	25	<10	776
CC33921		<20	0.02	<10	<10	189	<10	695
CC33922		<20	0.02	<10	<10	30	<10	159
CC33923		<20	0.03	<10	<10	43	<10	124
CC33924		<20	0.02	<10	<10	63	<10	408
CC68731		<20	<0.01	<10	<10	5	<10	101
CC68732		<20	0.06	<10	10	138	<10	390
CC68733		<20	0.12	<10	<10	169	<10	672
CC68734		<20	0.03	<10	<10	233	<10	419
CC68735		<20	0.04	<10	<10	110	<10	874
CC68736		<20	0.03	<10	<10	118	<10	576
CC68737		<20	0.02	<10	<10	80	<10	86
CC68738		<20	0.05	<10	10	239	<10	207
CC68739		<20	0.02	<10	<10	413	<10	95
CC68740		<20	0.06	<10	10	296	<10	397
CC68741		<20	0.05	<10	<10	71	<10	322
CC68742		<20	0.04	<10	<10	47	<10	331
CC68743		<20	0.02	<10	<10	72	<10	143
CC68744		<20	0.01	<10	<10	42	<10	447
CC68745		<20	0.01	<10	<10	16	<10	142
CC68746		<20	0.02	<10	<10	48	<10	112
CC68747		<20	0.02	<10	<10	33	<10	99
CC68748		<20	0.02	<10	<10	44	<10	124
CC68749		<20	0.02	<10	<10	51	<10	103
CC68750		<20	0.03	<10	<10	48	<10	222

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100029

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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CERTIFICATE VA09100028

Project: RAU

P.O. No.:

This report is for 112 Soil samples submitted to our lab in Vancouver, BC, Canada on 14-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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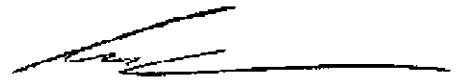
This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09100028

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC72516		0.20	0.002	0.3	1.68	6	<10	190	0.5	<2	4.06	<0.5	13	28	37	3.78
CC72517		0.18	0.001	<0.2	1.55	7	<10	110	0.5	<2	2.96	<0.5	11	17	31	3.93
CC72518		0.18	0.001	0.2	1.59	5	<10	80	0.5	<2	6.42	<0.5	12	16	39	3.74
CC72519		0.16	0.001	0.2	1.37	9	<10	90	<0.5	<2	6.83	<0.5	9	14	29	3.36
CC72520		0.18	0.001	<0.2	1.18	4	<10	110	<0.5	<2	6.39	<0.5	12	11	40	3.63
CC72521		0.22	0.002	0.2	0.75	<2	<10	60	<0.5	<2	8.33	<0.5	12	7	39	3.60
CC72522		0.18	0.002	<0.2	1.23	3	<10	80	<0.5	<2	8.54	<0.5	9	11	35	3.53
CC72523		0.20	0.002	0.2	1.18	5	<10	90	<0.5	<2	7.34	<0.5	11	11	36	4.12
CC72524		0.16	0.002	0.3	2.51	24	<10	370	0.6	<2	2.48	<0.5	21	104	59	4.96
CC72525		0.16	0.003	0.4	3.89	13	<10	700	0.5	<2	3.02	<0.5	29	154	66	5.73
CC72526		0.16	0.004	1.2	1.91	32	<10	400	0.8	<2	0.85	6.2	12	43	66	3.38
CC72527		0.24	0.002	0.3	3.96	29	<10	490	0.6	<2	2.27	0.6	31	154	78	5.90
CC72528		0.16	0.001	0.2	2.02	9	<10	210	0.7	<2	0.85	0.6	12	27	34	4.60
CC72529		0.20	<0.001	<0.2	1.40	8	<10	100	<0.5	<2	3.74	<0.5	13	16	38	4.20
CC72530		0.20	0.001	0.2	1.81	8	<10	120	0.5	<2	3.77	<0.5	14	20	41	4.90
CC72531		0.14	0.003	0.3	1.75	11	<10	170	0.5	<2	2.22	<0.5	10	24	37	4.11
CC72532		0.16	<0.001	0.3	1.65	14	<10	200	0.5	<2	2.16	<0.5	12	31	35	3.89
CC72533		0.18	0.002	0.3	1.61	12	<10	150	0.5	2	1.89	0.5	10	23	37	4.16
CC72534		0.18	0.002	0.2	2.02	9	<10	210	0.5	<2	3.02	<0.5	13	40	39	4.33
CC72535		0.20	0.001	<0.2	1.55	7	<10	130	<0.5	<2	2.44	0.5	11	18	36	4.16
CC72536		0.18	0.001	<0.2	1.66	6	<10	100	<0.5	<2	8.22	<0.5	11	16	36	4.28
CC72537		0.18	0.002	<0.2	1.77	10	<10	110	0.5	<2	2.15	<0.5	12	19	37	4.73
CC72538		0.16	0.002	0.2	1.73	7	<10	140	0.5	2	2.32	<0.5	10	20	37	4.29
CC72539		0.18	0.001	0.2	1.44	7	<10	90	<0.5	<2	6.12	<0.5	12	13	38	4.29
CC72540		0.20	0.002	<0.2	1.71	9	<10	110	<0.5	<2	5.11	<0.5	11	18	38	4.41
CC72541		0.18	0.002	0.2	1.64	10	<10	110	0.5	<2	2.43	<0.5	12	19	37	4.44
CC72542		0.22	0.002	0.2	2.35	12	<10	220	0.7	<2	1.46	<0.5	9	30	17	3.68
CC72543		0.20	0.001	0.4	1.26	14	<10	150	0.5	<2	4.81	0.9	9	22	23	2.80
CC72544		0.14	0.005	<0.2	2.77	6	<10	210	0.7	<2	0.81	<0.5	16	29	40	5.99
CC72545		0.18	0.002	0.2	1.91	8	<10	130	0.5	<2	2.27	<0.5	17	20	51	5.30
CC72546		0.16	0.002	0.2	2.02	10	<10	140	0.5	<2	1.76	<0.5	12	21	39	4.78
CC72547		0.20	0.002	0.2	1.84	2	<10	100	<0.5	<2	2.16	<0.5	13	22	46	4.76
CC72548		0.26	0.001	0.2	1.47	8	<10	240	0.5	2	1.40	0.6	23	22	56	4.35
CC72549		0.16	0.004	0.2	1.59	10	<10	130	0.5	<2	4.11	0.6	13	20	46	4.32
CC72550		0.20	0.002	<0.2	1.78	6	<10	110	0.5	<2	2.10	<0.5	14	20	48	5.02
CC33651		0.22	0.004	<0.2	1.02	9	<10	100	<0.5	<2	4.54	0.7	14	14	42	4.40
CC33652		0.20	0.003	0.3	1.08	10	<10	140	<0.5	<2	3.90	<0.5	10	17	32	3.26
CC33653		0.22	0.003	0.3	0.98	15	<10	140	<0.5	<2	6.08	0.6	12	15	32	3.20
CC33654		0.18	0.003	0.3	1.96	15	<10	320	0.7	<2	0.59	<0.5	10	32	14	3.29
CC33655		0.16	0.002	0.3	1.70	15	<10	220	0.8	<2	0.87	<0.5	11	28	18	3.20

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100028

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC72516		<10	1	0.28	20	2.71	582	1	0.02	32	750	26	0.02	<2	3	51
CC72517		<10	<1	0.26	20	2.29	583	<1	0.02	20	710	24	0.03	2	3	48
CC72518		<10	<1	0.37	20	3.55	543	<1	0.02	21	690	27	0.01	<2	3	84
CC72519		<10	<1	0.28	10	3.66	512	<1	0.02	19	740	26	0.02	<2	2	94
CC72520		<10	<1	0.34	10	3.17	632	<1	0.02	21	620	24	0.04	<2	2	94
CC72521		<10	<1	0.23	10	3.20	614	<1	0.02	21	650	11	0.03	2	2	113
CC72522		<10	<1	0.36	20	3.95	578	<1	0.02	17	640	20	0.03	<2	2	120
CC72523		<10	<1	0.29	10	2.99	648	<1	0.02	19	700	21	0.02	<2	2	79
CC72524		10	<1	0.33	10	2.51	589	1	0.03	65	710	22	0.04	3	9	52
CC72525		10	<1	0.55	10	3.70	743	<1	0.03	122	780	7	0.03	<2	12	85
CC72526		10	1	0.22	20	0.84	545	11	0.03	74	1010	35	0.02	7	5	35
CC72527		10	1	0.49	10	4.08	686	1	0.03	129	960	15	0.01	<2	10	55
CC72528		10	<1	0.38	20	1.09	765	1	0.02	26	810	24	0.03	<2	4	21
CC72529		<10	<1	0.21	20	2.56	748	<1	0.01	24	720	23	0.02	<2	2	42
CC72530		10	<1	0.29	20	2.58	860	<1	0.02	25	720	23	0.02	<2	3	46
CC72531		<10	<1	0.22	20	1.74	462	1	0.02	24	730	25	0.03	2	3	31
CC72532		<10	1	0.21	10	1.31	560	1	0.02	32	650	32	0.04	2	3	36
CC72533		<10	<1	0.25	20	1.40	491	1	0.02	23	760	40	0.05	6	3	27
CC72534		10	<1	0.27	10	2.03	607	<1	0.03	37	760	23	0.05	<2	4	50
CC72535		<10	1	0.20	20	1.86	685	<1	0.02	23	790	26	0.03	2	3	33
CC72536		<10	<1	0.30	20	2.69	767	1	0.03	19	670	21	0.02	<2	2	60
CC72537		<10	<1	0.20	20	1.91	705	<1	0.02	21	770	25	0.03	2	3	27
CC72538		<10	<1	0.26	20	1.79	659	1	0.03	21	830	21	0.04	<2	3	32
CC72539		<10	1	0.28	20	3.17	777	1	0.03	19	680	19	0.03	<2	2	72
CC72540		10	<1	0.24	20	3.02	722	1	0.03	22	710	19	0.02	<2	3	60
CC72541		<10	<1	0.20	20	2.16	756	<1	0.02	24	670	24	0.02	3	3	26
CC72542		10	<1	0.16	20	1.38	544	1	0.03	21	350	20	0.02	2	4	21
CC72543		<10	1	0.11	10	2.90	812	1	0.03	21	850	38	0.05	<2	2	39
CC72544		10	1	0.27	20	1.69	1670	<1	0.03	24	650	19	0.03	<2	4	21
CC72545		<10	1	0.26	20	2.12	955	<1	0.03	27	710	38	0.03	<2	3	38
CC72546		10	1	0.25	20	1.39	795	<1	0.03	17	830	22	0.07	<2	3	35
CC72547		<10	<1	0.15	20	2.25	724	<1	0.02	24	840	20	0.02	<2	3	31
CC72548		<10	<1	0.20	20	1.28	4060	1	0.03	40	850	22	0.02	<2	4	29
CC72549		<10	<1	0.22	20	2.70	767	<1	0.03	27	870	35	0.03	3	3	43
CC72550		10	1	0.22	20	1.86	978	<1	0.02	27	910	21	0.03	3	3	30
CC33651		<10	1	0.14	20	3.09	896	1	0.02	28	730	24	0.05	2	2	47
CC33652		<10	<1	0.19	20	2.45	708	1	0.03	22	870	27	0.04	2	2	31
CC33653		<10	<1	0.16	10	3.93	1045	<1	0.03	28	770	32	0.02	<2	2	39
CC33654		10	1	0.11	20	0.61	545	<1	0.04	21	610	23	0.03	<2	4	21
CC33655		<10	<1	0.12	10	0.61	903	<1	0.03	20	710	30	0.05	<2	3	21

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CERTIFICATE OF ANALYSIS VA09100028

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC72516		<20	0.03	<10	<10	35	<10	92
CC72517		<20	0.01	<10	<10	24	<10	68
CC72518		<20	0.01	<10	<10	21	<10	67
CC72519		<20	0.01	<10	<10	17	<10	67
CC72520		<20	<0.01	<10	<10	14	<10	68
CC72521		<20	<0.01	<10	<10	9	<10	52
CC72522		<20	<0.01	<10	<10	14	<10	65
CC72523		<20	<0.01	<10	<10	13	<10	65
CC72524		<20	0.11	<10	<10	79	<10	113
CC72525		<20	0.36	<10	<10	111	<10	123
CC72526		<20	0.04	<10	<10	123	<10	273
CC72527		<20	0.32	<10	<10	109	<10	142
CC72528		<20	0.02	<10	<10	42	<10	100
CC72529		<20	0.02	<10	<10	21	<10	83
CC72530		<20	0.02	<10	<10	28	<10	78
CC72531		<20	0.02	<10	<10	37	<10	104
CC72532		<20	0.03	<10	<10	39	<10	124
CC72533		<20	0.01	<10	<10	31	<10	189
CC72534		<20	0.05	<10	<10	41	<10	99
CC72535		<20	0.02	<10	<10	27	<10	96
CC72536		<20	0.02	<10	<10	21	<10	76
CC72537		<20	0.02	<10	<10	28	<10	101
CC72538		<20	0.02	<10	<10	31	<10	87
CC72539		<20	0.02	<10	<10	18	<10	65
CC72540		<20	0.02	<10	<10	27	<10	80
CC72541		<20	0.02	<10	<10	28	<10	82
CC72542		<20	0.03	<10	<10	57	<10	83
CC72543		<20	0.02	<10	<10	37	<10	108
CC72544		<20	0.02	<10	<10	45	<10	88
CC72545		<20	0.01	<10	<10	27	<10	112
CC72546		<20	0.01	<10	<10	29	<10	108
CC72547		<20	0.01	<10	<10	24	<10	87
CC72548		<20	0.02	<10	<10	36	<10	104
CC72549		<20	0.01	<10	<10	28	<10	134
CC72550		<20	0.01	<10	<10	28	<10	91
CC33651		<20	0.01	<10	<10	17	<10	88
CC33652		<20	0.01	<10	<10	23	<10	95
CC33653		<20	0.01	<10	<10	23	<10	110
CC33654		<20	0.03	<10	<10	61	<10	85
CC33655		<20	0.03	<10	<10	50	<10	95

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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC33656		0.18	0.002	0.3	1.73	15	<10	260	0.6	<2	1.15	<0.5	9	28	14	2.87
CC33657		0.20	0.002	0.2	1.13	13	<10	130	0.5	<2	8.24	0.5	6	18	16	1.94
CC33658		0.16	0.004	0.5	1.41	40	<10	250	0.6	<2	1.71	0.6	8	23	22	2.72
CC33659		0.14	0.015	0.5	1.31	15	<10	240	0.5	2	2.46	0.7	8	21	20	2.20
CC33660		0.16	0.001	0.3	1.18	12	<10	170	<0.5	<2	7.27	0.5	5	18	15	1.97
CC33661		0.14	0.009	<0.2	1.08	9	<10	270	<0.5	<2	4.84	<0.5	7	15	16	1.60
CC33662		0.18	0.001	0.3	0.79	30	<10	130	<0.5	2	9.56	0.7	5	13	12	2.29
CC33663		0.14	0.001	0.4	0.98	17	<10	140	<0.5	<2	10.50	0.7	5	15	12	1.60
CC33664		0.22	0.001	0.3	0.72	5	<10	80	<0.5	2	14.1	<0.5	4	11	7	1.03
CC33665		0.20	0.002	0.4	1.35	14	<10	170	0.6	<2	4.20	0.7	8	21	15	2.53
CC54299		0.20	0.002	0.3	0.25	10	<10	40	<0.5	<2	18.4	0.5	<1	6	1	0.39
CC54300		0.16	0.001	0.4	1.46	11	<10	130	0.6	<2	7.24	<0.5	5	23	9	2.16
CC54301		0.18	0.001	<0.2	2.35	8	<10	240	0.8	2	1.19	0.7	10	34	10	3.13
CC54302		0.20	0.002	<0.2	1.64	11	<10	240	0.5	<2	4.62	0.8	6	24	12	2.31
CC63851		0.18	<0.001	<0.2	0.15	2	<10	30	<0.5	<2	18.6	<0.5	1	3	<1	0.26
CC63852		0.18	0.002	0.3	0.54	15	<10	80	<0.5	2	12.65	0.6	2	9	6	1.19
CC63853		0.16	<0.001	0.4	1.55	19	<10	270	0.6	2	5.72	1.0	8	24	20	2.96
CC63854		0.16	0.003	0.4	1.64	16	<10	260	0.7	<2	2.21	1.0	10	28	20	3.31
CC63855		0.20	0.001	0.4	1.15	17	<10	170	0.5	<2	8.26	<0.5	5	24	18	2.08
CC63856		0.14	0.002	0.4	2.02	15	<10	230	0.8	2	1.19	0.6	8	35	14	3.31
CC63857		0.22	0.001	0.2	0.69	10	<10	100	<0.5	<2	14.2	<0.5	3	11	8	1.09
CC63858		0.18	0.001	0.4	0.82	10	<10	110	<0.5	<2	11.95	0.5	4	15	13	1.34
CC63859		0.16	0.003	0.5	1.41	24	<10	190	0.5	<2	6.20	0.8	6	22	18	2.22
CC63860		0.20	0.001	0.4	1.39	19	<10	180	0.6	<2	5.95	0.7	8	22	18	2.89
CC63861		0.12	<0.001	<0.2	0.34	5	<10	50	<0.5	<2	16.8	<0.5	1	6	2	0.63
CC63862		0.20	0.001	0.4	0.79	16	<10	110	<0.5	<2	12.65	0.5	3	13	9	1.29
CC63863		0.18	0.001	<0.2	2.39	14	<10	170	0.8	2	1.09	0.8	9	35	8	3.27
CC63864		0.14	0.002	0.3	1.97	16	<10	210	0.7	<2	2.96	0.8	6	32	12	2.92
CC72501		0.18	0.001	0.3	1.95	19	<10	220	0.7	<2	0.63	<0.5	7	33	10	3.06
CC72502		0.18	0.002	0.5	1.59	107	<10	210	0.7	3	1.23	1.2	7	28	11	3.72
CC72503		0.18	0.002	0.4	1.64	28	<10	190	0.6	2	2.79	0.7	7	26	13	2.69
CC72504		0.12	0.007	0.3	1.47	24	<10	180	0.5	<2	1.81	0.8	8	24	13	2.49
CC72505		0.16	0.003	0.2	1.42	20	<10	190	0.5	2	1.16	0.7	7	25	16	2.74
CC72506		0.16	0.007	0.2	1.48	16	<10	210	0.5	<2	1.14	1.0	8	26	15	2.62
CC72507		0.18	0.005	0.2	1.36	19	<10	190	0.5	<2	1.33	0.9	7	24	18	2.52
CC72508		0.16	0.005	0.3	1.40	14	<10	190	0.5	<2	1.74	0.6	7	27	22	2.51
CC49345		0.18	0.007	0.2	0.58	15	<10	80	<0.5	<2	4.89	0.6	10	11	35	3.15
CC49346		0.24	0.003	0.4	0.67	14	<10	110	<0.5	2	4.46	1.3	11	12	40	3.13
CC49347		0.24	0.001	0.3	1.48	14	<10	260	0.6	<2	1.41	0.8	8	27	27	3.10
CC49348		0.20	0.003	0.3	1.01	18	<10	140	<0.5	<2	1.72	0.7	8	19	19	2.73

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 3-OCT-2009
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CERTIFICATE OF ANALYSIS VA09100028

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC33656		10	<1	0.12	10	0.59	627	<1	0.04	17	650	32	0.05	2	3	23
CC33657		<10	<1	0.09	10	5.21	586	<1	0.03	14	770	37	0.04	<2	2	46
CC33658		<10	<1	0.13	10	0.58	691	1	0.03	18	870	49	0.07	<2	2	32
CC33659		<10	<1	0.10	10	0.83	615	1	0.04	17	1040	29	0.10	<2	2	28
CC33660		<10	<1	0.12	10	4.36	534	<1	0.04	15	930	32	0.07	<2	2	46
CC33661		<10	<1	0.13	10	2.18	404	<1	0.04	11	1800	24	0.11	<2	1	38
CC33662		<10	1	0.16	10	5.88	378	<1	0.03	11	970	135	0.05	7	2	55
CC33663		<10	1	0.10	<10	6.52	702	<1	0.04	14	960	62	0.07	2	1	58
CC33664		<10	<1	0.06	<10	8.77	333	<1	0.03	7	640	16	0.05	<2	1	70
CC33665		<10	1	0.11	10	2.48	802	<1	0.03	18	1080	40	0.07	<2	1	26
CC54299		<10	<1	0.03	<10	11.35	245	<1	0.03	1	760	89	<0.01	2	<1	87
CC54300		<10	<1	0.10	10	4.56	609	<1	0.04	14	1000	120	0.06	2	2	38
CC54301		<10	1	0.10	10	0.91	698	<1	0.03	21	530	27	0.05	2	4	19
CC54302		<10	1	0.09	10	2.72	625	<1	0.03	15	860	21	0.08	<2	2	34
CC63851		<10	<1	0.02	<10	11.55	213	<1	0.03	2	230	15	<0.01	<2	<1	98
CC63852		<10	<1	0.05	<10	8.27	746	<1	0.03	7	660	78	0.05	6	1	71
CC63853		<10	<1	0.25	10	3.52	851	1	0.04	25	940	41	0.05	3	3	39
CC63854		<10	<1	0.21	10	1.29	851	1	0.04	27	1070	43	0.07	<2	3	28
CC63855		<10	<1	0.18	10	5.20	493	<1	0.04	20	1020	37	0.05	<2	3	71
CC63856		10	<1	0.15	10	0.80	612	1	0.04	23	1020	29	0.05	2	3	24
CC63857		<10	<1	0.10	<10	8.79	711	<1	0.03	9	600	55	0.03	2	1	66
CC63858		<10	<1	0.09	<10	7.74	750	<1	0.03	11	870	31	0.04	<2	2	78
CC63859		<10	<1	0.14	10	3.58	879	<1	0.04	15	1180	42	0.08	3	2	45
CC63860		<10	<1	0.17	10	3.65	777	1	0.03	21	830	51	0.04	2	3	39
CC63861		<10	1	0.03	<10	10.20	413	<1	0.03	3	1090	15	0.06	<2	1	77
CC63862		<10	1	0.07	<10	8.37	602	<1	0.03	8	660	33	0.04	5	1	66
CC63863		10	1	0.12	10	0.78	721	<1	0.04	17	340	42	0.04	<2	4	19
CC63864		<10	1	0.13	10	1.86	614	1	0.04	19	740	42	0.04	<2	3	29
CC72501		10	1	0.12	20	0.63	388	1	0.04	22	600	21	0.03	<2	3	19
CC72502		<10	1	0.11	10	0.71	887	1	0.03	21	1240	60	0.07	3	2	15
CC72503		10	<1	0.12	10	1.51	688	<1	0.04	16	1050	29	0.08	<2	2	22
CC72504		<10	<1	0.11	10	0.89	628	<1	0.04	19	950	21	0.08	<2	2	22
CC72505		<10	<1	0.13	10	0.69	535	<1	0.05	20	940	24	0.05	<2	3	24
CC72506		<10	1	0.12	10	0.55	631	1	0.04	21	970	21	0.07	<2	2	23
CC72507		<10	1	0.14	10	0.75	477	1	0.06	20	930	18	0.06	<2	3	27
CC72508		<10	<1	0.11	10	1.00	411	1	0.04	24	1070	23	0.06	<2	3	25
CC49345		<10	1	0.05	10	2.97	656	1	0.02	25	760	30	0.03	<2	2	52
CC49346		<10	<1	0.20	10	2.57	797	<1	0.02	24	760	155	0.03	3	3	63
CC49347		<10	1	0.17	10	0.82	622	1	0.05	24	1010	34	0.06	2	3	29
CC49348		<10	<1	0.13	10	0.94	462	1	0.03	21	800	30	0.05	<2	3	24

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CERTIFICATE OF ANALYSIS VA09100028

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC33656		<20	0.03	<10	<10	55	<10	90
CC33657		<20	0.02	<10	<10	32	<10	139
CC33658		<20	0.02	<10	<10	40	<10	168
CC33659		<20	0.02	<10	<10	36	<10	120
CC33660		<20	0.02	<10	<10	31	<10	121
CC33661		<20	0.01	<10	<10	25	<10	98
CC33662		<20	0.01	<10	<10	24	<10	331
CC33663		<20	0.01	<10	<10	26	<10	226
CC33664		<20	0.01	<10	<10	18	<10	73
CC33665		<20	0.02	<10	<10	37	<10	154
CC54299		<20	<0.01	<10	<10	7	<10	112
CC54300		<20	0.02	<10	<10	38	<10	110
CC54301		<20	0.03	<10	<10	67	<10	136
CC54302		<20	0.02	<10	<10	42	<10	199
CC63851		<20	<0.01	<10	10	5	<10	38
CC63852		<20	0.01	<10	<10	19	<10	197
CC63853		<20	0.02	<10	<10	41	<10	147
CC63854		<20	0.02	<10	<10	45	<10	171
CC63855		<20	0.02	<10	<10	31	<10	143
CC63856		<20	0.03	<10	<10	57	<10	149
CC63857		<20	0.02	<10	<10	18	<10	141
CC63858		<20	0.02	<10	<10	24	<10	113
CC63859		<20	0.02	<10	<10	36	<10	170
CC63860		<20	0.02	<10	<10	38	<10	144
CC63861		<20	0.01	<10	<10	9	<10	51
CC63862		<20	0.02	<10	<10	21	<10	123
CC63863		<20	0.04	<10	<10	70	<10	138
CC63864		<20	0.03	<10	<10	54	<10	174
CC72501		<20	0.03	<10	<10	63	<10	116
CC72502		<20	0.02	<10	<10	54	<10	385
CC72503		<20	0.03	<10	<10	49	<10	198
CC72504		<20	0.03	<10	<10	46	<10	159
CC72505		<20	0.04	<10	<10	49	<10	149
CC72506		<20	0.03	<10	<10	48	<10	169
CC72507		<20	0.04	<10	<10	46	<10	149
CC72508		<20	0.03	<10	<10	44	<10	163
CC49345		<20	0.01	<10	<10	19	<10	101
CC49346		<20	0.01	<10	<10	20	<10	268
CC49347		<20	0.03	<10	<10	50	<10	154
CC49348		<20	0.02	<10	<10	36	<10	131

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CERTIFICATE OF ANALYSIS VA09100028

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC49349		0.16	0.008	0.2	1.38	15	<10	240	0.5	2	2.14	1.3	7	24	22	2.67
CC49248		0.20	0.003	0.3	1.55	17	<10	200	0.6	<2	3.26	0.7	8	27	24	2.81
CC49249		0.22	0.003	0.4	1.62	20	<10	220	0.6	<2	2.74	0.5	9	28	23	2.90
CC49250		0.16	0.006	0.2	1.55	11	<10	150	0.7	2	3.18	0.7	8	25	16	2.57
CC21452		0.24	0.007	2.5	1.07	39	<10	2870	0.5	2	0.21	104.0	11	36	192	3.36
CC21453		0.20	0.005	1.5	0.36	8	<10	190	<0.5	<2	0.03	0.9	1	35	81	0.68
CC33925		0.16	0.005	0.4	0.36	13	<10	180	<0.5	2	16.1	1.4	3	10	8	1.08
CC33926		0.16	0.002	0.4	0.39	15	<10	90	<0.5	<2	14.2	1.0	3	9	9	0.94
CC33927		0.16	0.018	0.6	0.74	17	<10	160	<0.5	2	11.75	1.6	5	15	10	1.39
CC33928		0.16	0.015	1.8	0.93	30	<10	730	<0.5	3	7.23	3.6	9	19	20	2.64
CC33929		0.20	0.008	0.5	0.40	19	<10	160	<0.5	8	15.8	1.7	5	11	9	1.19
CC33930		0.16	0.002	0.2	0.16	5	<10	40	<0.5	<2	17.8	<0.5	<1	2	2	0.25
CC33931		0.18	0.001	<0.2	0.13	12	<10	60	<0.5	<2	15.5	0.7	2	3	2	0.49
CC33932		0.16	0.010	0.9	0.43	96	<10	270	<0.5	16	10.60	3.3	4	8	14	2.24
CC33933		0.18	0.001	<0.2	0.42	10	<10	70	<0.5	<2	12.70	0.5	2	7	4	0.83
CC33934		0.16	0.004	0.2	0.32	71	<10	150	<0.5	<2	11.85	1.8	7	8	10	1.84
CC33935		0.20	0.004	0.3	0.18	17	<10	90	<0.5	<2	16.3	0.5	2	4	3	0.60
CC48688		0.24	0.006	0.6	0.93	21	<10	200	<0.5	<2	6.48	1.2	5	17	24	2.26
CC48689		0.24	0.001	0.2	0.10	6	<10	30	<0.5	<2	18.5	<0.5	1	3	<1	0.33
CC48690		0.20	<0.001	<0.2	0.26	11	<10	40	<0.5	<2	16.3	<0.5	1	5	3	0.76
CC48691		0.24	0.002	0.3	0.43	11	<10	60	<0.5	<2	12.35	<0.5	2	8	5	1.12
CC48692		0.16	0.003	0.4	1.28	19	<10	260	0.5	<2	4.18	0.7	7	23	21	2.66
CC48693		0.16	0.001	0.4	1.21	18	<10	210	0.5	<2	5.73	0.6	5	21	18	2.21
CC48694		0.20	0.005	0.2	1.06	17	<10	150	<0.5	<2	8.11	<0.5	5	19	15	1.86
CC48695		0.16	0.005	0.2	1.27	18	<10	190	0.5	<2	5.78	0.7	6	23	15	2.30
CC48696		0.22	0.006	0.3	1.12	21	<10	200	<0.5	<2	6.02	0.6	6	22	20	2.25
CC48697		0.24	0.006	0.3	1.13	19	<10	170	<0.5	<2	7.61	0.5	5	21	20	2.18
CC48698		0.18	0.006	0.4	1.46	21	<10	240	0.5	<2	3.49	0.9	8	28	25	2.92
CC48699		0.16	0.005	0.2	1.35	20	<10	190	0.5	<2	1.18	0.8	9	27	24	2.90
CC48700		0.18	0.006	0.3	1.16	19	<10	150	<0.5	<2	3.47	<0.5	7	22	23	2.43
CC49199		0.12	0.003	0.3	1.32	15	<10	150	0.5	<2	7.85	0.7	5	20	9	2.25
CC49200		0.18	0.004	0.3	1.46	17	<10	180	0.6	<2	4.08	<0.5	7	26	19	2.55

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC49349		<10	1	0.16	10	1.03	618	<1	0.04	21	1070	37	0.08	<2	2	27
CC49248		<10	1	0.14	10	2.09	517	1	0.03	24	990	49	0.05	<2	3	31
CC49249		<10	<1	0.14	10	1.79	678	1	0.04	26	1020	38	0.04	2	3	31
CC49250		<10	<1	0.11	10	1.51	867	<1	0.04	16	1450	27	0.12	<2	2	26
CC21452		<10	<1	0.16	20	0.17	607	39	0.04	348	1230	88	0.10	23	2	37
CC21453		<10	5	0.16	20	0.03	36	42	0.02	4	410	25	0.05	6	2	41
CC33925		<10	<1	0.05	<10	9.66	1215	2	0.03	12	640	168	0.05	<2	1	55
CC33926		<10	1	0.04	<10	8.61	1025	3	0.03	9	870	78	0.09	<2	<1	59
CC33927		<10	<1	0.05	<10	7.63	1200	1	0.03	13	790	149	0.09	<2	1	42
CC33928		<10	<1	0.09	10	4.29	3950	3	0.03	27	1630	454	0.16	4	1	36
CC33929		<10	1	0.05	<10	9.86	1410	1	0.02	15	870	85	0.08	4	1	53
CC33930		<10	1	0.01	<10	11.55	386	<1	0.02	1	540	14	<0.01	<2	<1	29
CC33931		<10	1	0.01	<10	10.00	644	<1	0.02	2	690	26	0.04	<2	<1	27
CC33932		<10	<1	0.04	<10	6.96	3470	<1	0.02	21	1250	479	0.09	4	1	24
CC33933		<10	<1	0.03	<10	8.63	612	<1	0.02	6	650	28	0.05	<2	1	23
CC33934		<10	<1	0.05	<10	8.00	1230	<1	0.02	26	1260	108	0.06	2	1	25
CC33935		<10	<1	0.02	<10	10.65	654	<1	0.01	7	530	29	<0.01	<2	<1	30
CC48688		<10	<1	0.13	10	3.68	535	1	0.02	14	1440	78	0.09	4	2	56
CC48689		<10	<1	0.01	<10	12.20	337	<1	0.01	1	220	7	<0.01	<2	<1	95
CC48690		<10	<1	0.04	<10	10.70	450	<1	0.01	3	440	11	<0.01	2	<1	105
CC48691		<10	1	0.06	<10	8.48	392	<1	0.02	5	520	14	0.03	2	1	80
CC48692		<10	1	0.17	10	2.49	569	1	0.03	19	990	32	0.07	2	2	38
CC48693		10	<1	0.15	10	3.32	392	1	0.03	17	1070	30	0.08	3	2	41
CC48694		<10	<1	0.11	10	5.55	407	<1	0.03	15	910	25	0.04	3	2	52
CC48695		<10	1	0.13	10	3.49	522	1	0.02	16	1040	38	0.05	5	2	36
CC48696		<10	1	0.14	10	3.74	396	1	0.02	19	890	21	0.05	2	2	37
CC48697		<10	<1	0.18	10	5.36	379	1	0.03	18	830	26	0.02	2	3	50
CC48698		<10	1	0.22	10	2.17	611	1	0.03	27	880	54	0.05	<2	3	33
CC48699		<10	1	0.10	10	0.61	558	1	0.01	26	910	44	0.07	2	2	22
CC48700		<10	<1	0.16	10	2.25	351	1	0.03	22	950	55	0.02	2	3	38
CC49199		<10	<1	0.09	10	5.28	801	<1	0.02	10	860	43	0.06	3	2	44
CC49200		10	<1	0.14	10	2.55	575	1	0.03	25	1080	40	0.05	3	3	38

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

Project: RAU

Finalized Date: 3-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09100028

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC49349		<20	0.02	<10	<10	45	<10	170
CC49248		<20	0.03	<10	<10	44	<10	155
CC49249		<20	0.03	<10	<10	48	<10	121
CC49250		<20	0.02	<10	<10	42	<10	133
CC21452		<20	0.02	<10	<10	409	10	5280
CC21453		<20	<0.01	<10	<10	187	<10	28
CC33925		<20	0.01	<10	10	33	<10	424
CC33926		<20	0.01	<10	<10	30	<10	228
CC33927		<20	0.01	<10	<10	41	<10	441
CC33928		<20	0.01	<10	<10	60	<10	1015
CC33929		<20	0.01	<10	10	42	<10	342
CC33930		<20	<0.01	<10	10	4	<10	62
CC33931		<20	<0.01	<10	10	6	<10	145
CC33932		<20	0.01	<10	<10	40	<10	990
CC33933		<20	0.01	<10	<10	18	<10	129
CC33934		<20	0.01	<10	<10	30	<10	537
CC33935		<20	0.01	<10	10	12	<10	159
CC48688		<20	0.01	<10	<10	34	<10	212
CC48689		<20	<0.01	<10	10	6	<10	42
CC48690		<20	<0.01	<10	10	9	<10	63
CC48691		<20	0.01	<10	<10	16	<10	101
CC48692		<20	0.02	<10	<10	39	<10	153
CC48693		<20	0.02	<10	<10	36	<10	155
CC48694		<20	0.03	<10	<10	35	<10	128
CC48695		<20	0.03	<10	<10	38	<10	135
CC48696		<20	0.02	<10	<10	36	<10	137
CC48697		<20	0.04	<10	<10	36	<10	129
CC48698		<20	0.02	<10	<10	44	<10	203
CC48699		<20	0.02	<10	<10	42	<10	182
CC48700		<20	0.05	<10	<10	41	<10	160
CC49199		<20	0.02	<10	<10	37	<10	240
CC49200		<20	0.03	<10	<10	42	<10	135

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

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE VA09098645

Project: RAU

P.O. No.: Batch 45

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098645

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885733		5.12	0.01	0.13	0.07	186	30	0.16	1.64	20.3	3.00	3.13	1.5	4	0.17	5.3
H885734		4.44	0.01	0.06	0.07	24	30	0.12	0.78	20.0	0.10	3.97	1.0	4	0.30	3.4
H885735		0.34	<0.01	0.26	3.34	6	140	0.56	2.36	21.8	0.09	62.3	14.3	73	32.3	644
H885736		4.94	<0.01	0.04	1.15	6	190	0.22	1.26	28.2	0.02	17.85	3.8	26	2.13	31.2
H885737		0.70	<0.01	0.06	5.13	5	810	0.75	0.50	16.95	<0.02	77.1	35.3	164	16.85	87.4
H885738		3.42	<0.01	0.03	0.09	<5	20	0.07	0.03	20.6	0.06	1.62	1.0	2	0.23	2.0
H885739		0.52	<0.01	0.49	4.44	<5	170	2.69	327	19.90	0.07	34.5	23.1	125	6.73	504
H885740		3.70	<0.01	0.02	0.62	10	90	0.14	0.85	35.3	0.03	9.04	1.6	16	0.64	9.1
H885741		3.42	0.01	0.02	0.49	5	80	0.14	0.35	35.9	0.03	6.38	1.4	8	0.45	8.0
H885742		0.64	0.01	0.15	4.44	5	160	1.58	66.2	18.90	0.06	17.60	15.9	70	1.86	385
H885743		4.50	<0.01	0.01	1.93	11	230	0.48	0.42	28.4	0.04	27.5	4.0	18	1.73	4.7
H885744		0.32	1.53	1.81	0.14	>10000	30	<0.05	383	12.70	0.89	63.8	1.9	8	0.74	21.9
H885745		4.48	<0.01	0.02	4.01	32.7	120	0.52	1.79	9.64	0.05	24.8	15.5	73	15.55	14.3
H885746		5.18	0.01	0.06	8.37	12.3	130	1.06	1.68	5.32	0.07	22.3	50.1	180	40.8	22.5
H885747		4.98	<0.01	0.05	8.32	4.4	80	0.76	0.15	3.61	0.07	22.8	50.1	173	5.96	115.0
H885748		5.14	0.01	0.01	9.35	5.0	340	1.17	0.46	3.98	0.03	25.1	50.0	200	42.7	47.0
H885749		4.92	<0.01	0.03	2.62	14	120	2.19	0.16	26.5	0.21	23.7	9.2	27	2.46	13.3
H885750		2.40	0.01	0.02	2.19	7	110	0.48	0.15	29.3	0.21	21.7	7.6	18	2.16	13.5
H885751		4.76	<0.01	0.04	5.66	6	190	0.95	0.21	17.55	0.15	42.3	19.0	74	6.94	21.4
H885752		1.82	<0.01	0.10	6.80	12	150	1.05	0.29	14.00	0.14	41.3	28.0	111	7.19	49.3
H885753		5.68	0.01	0.06	8.14	9.7	100	0.95	0.16	5.98	0.04	26.1	44.4	197	14.00	42.5
H885754		5.36	0.03	0.07	7.87	2.0	100	0.78	0.12	5.98	0.06	24.6	42.5	184	4.84	63.2
H885755		5.76	<0.01	0.06	7.84	1.3	150	0.83	0.11	5.46	0.06	24.5	47.1	200	3.37	80.4
H885756		4.04	<0.01	0.04	8.16	1.7	130	0.83	0.14	4.65	0.02	26.0	40.0	211	14.10	29.8
H885757		4.12	<0.01	0.07	7.65	2.9	30	0.75	0.24	4.84	0.02	39.1	27.6	183	7.11	12.6
H885758		4.48	<0.01	0.04	8.04	24.6	80	0.80	0.19	3.95	0.02	26.7	37.4	185	17.55	21.8
H885759		3.72	<0.01	0.04	0.10	<5	30	0.07	0.05	20.2	0.07	1.72	1.1	2	0.21	1.5
H885760		10.14	<0.01	0.09	0.54	18	140	0.30	1.59	19.85	0.04	8.34	1.5	7	1.17	9.4
H885761		11.20	<0.01	0.05	1.08	63	230	0.41	5.22	18.05	0.05	8.44	2.7	19	2.83	11.3
H885762		0.30	5.75	0.18	0.12	>10000	30	<0.05	502	9.19	0.05	41.3	2.0	15	0.78	44.3
H885763		4.06	<0.01	0.08	0.46	11	130	0.17	0.40	20.1	0.05	5.95	1.6	8	2.77	4.0
H885764		3.24	<0.01	0.07	7.13	54.7	1700	1.14	1.85	4.81	0.02	28.0	30.2	224	14.90	79.6
H885765		2.94	0.01	0.21	7.28	99.2	2190	0.70	13.20	3.84	0.04	18.10	50.0	233	17.25	21.1
H885766		2.32	<0.01	0.10	7.98	2.9	1770	0.71	0.90	8.70	<0.02	30.0	55.3	238	41.7	17.1
H885767		3.50	<0.01	0.13	7.18	56.6	630	0.63	1.08	5.63	0.03	38.0	50.7	211	59.7	23.0
H885768		0.26	1.30	1.87	0.12	>10000	30	0.05	372	12.55	0.86	61.1	1.8	6	0.80	17.5

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098645

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885733		1.12	0.32	<0.05	<0.1	0.04	0.092	0.02	2.1	4.4	13.30	257	0.93	0.02	0.2	11.8
H885734		0.66	0.31	0.05	<0.1	<0.01	0.005	0.03	2.7	3.8	12.90	207	1.07	0.02	0.2	8.1
H885735		4.64	8.67	0.12	1.9	<0.01	0.101	1.98	36.5	22.6	5.17	587	2.89	0.11	22.4	44.4
H885736		1.00	2.69	0.05	0.4	<0.01	0.031	0.64	12.0	10.3	1.00	273	2.83	0.07	6.4	14.2
H885737		4.13	13.50	0.15	1.1	<0.01	0.037	3.41	42.2	83.8	3.90	412	0.38	0.38	37.0	158.5
H885738		0.45	0.27	<0.05	<0.1	<0.01	0.008	0.04	0.9	1.3	13.40	199	0.22	0.01	0.4	2.5
H885739		5.58	9.16	0.11	1.3	<0.01	0.025	1.26	16.1	21.6	1.14	252	4.20	0.87	22.1	79.1
H885740		0.50	1.39	<0.05	0.2	<0.01	0.011	0.33	5.3	3.9	0.46	128	0.55	0.04	3.9	6.4
H885741		0.34	1.13	0.06	0.1	<0.01	0.013	0.23	3.7	2.8	0.39	148	0.35	0.03	1.9	3.8
H885742		4.43	7.98	0.07	0.7	<0.01	0.022	0.56	7.9	15.4	0.94	378	1.46	1.12	10.9	34.9
H885743		1.03	4.58	0.07	0.5	<0.01	0.012	0.98	13.5	9.2	0.70	686	0.19	0.04	3.4	9.9
H885744		17.30	1.11	0.25	0.1	0.02	0.117	0.07	41.4	2.0	7.35	2230	6.03	0.02	0.5	7.9
H885745		3.18	8.89	0.06	0.8	<0.01	0.043	1.18	12.6	17.4	1.92	531	0.29	0.91	6.7	66.3
H885746		7.35	22.2	0.13	0.8	<0.01	0.109	1.90	10.6	46.8	5.13	849	0.41	2.81	15.9	190.5
H885747		8.20	21.6	0.13	0.6	<0.01	0.070	0.60	10.9	35.3	5.89	668	0.26	3.21	15.6	186.0
H885748		8.67	26.1	0.15	0.6	<0.01	0.105	2.35	12.3	62.6	5.30	783	0.19	2.30	16.8	197.5
H885749		1.58	5.57	0.08	0.5	<0.01	0.026	0.70	10.9	9.5	0.86	1050	1.35	0.71	4.4	23.0
H885750		1.30	4.79	0.06	0.5	<0.01	0.023	0.63	10.1	8.6	0.72	1050	1.47	0.56	3.8	18.2
H885751		4.09	14.30	0.12	0.7	<0.01	0.072	1.35	20.6	25.7	1.90	895	0.19	0.72	10.9	75.8
H885752		4.96	16.85	0.11	0.7	<0.01	0.091	1.20	20.8	26.4	2.39	1020	0.16	1.32	12.6	121.0
H885753		7.40	20.9	0.16	0.8	<0.01	0.067	1.26	13.3	34.2	4.74	1000	0.53	2.24	11.2	199.5
H885754		7.20	19.40	0.13	1.0	<0.01	0.060	0.83	12.6	32.9	4.79	955	0.35	1.97	10.2	195.5
H885755		7.27	21.0	0.13	0.8	<0.01	0.059	1.03	12.1	34.0	4.69	863	0.61	2.08	10.4	197.0
H885756		7.29	19.80	0.13	0.8	<0.01	0.110	1.12	13.2	43.0	4.77	784	0.54	2.86	10.1	196.0
H885757		6.56	19.75	0.12	1.3	<0.01	0.356	0.25	21.0	56.2	4.26	672	0.19	3.18	12.0	167.0
H885758		7.20	20.2	0.14	0.5	<0.01	0.075	1.02	13.3	38.8	4.55	838	0.22	3.43	11.8	180.0
H885759		0.45	0.33	<0.05	<0.1	<0.01	0.008	0.03	0.9	1.5	13.15	193	0.05	0.02	0.3	2.5
H885760		1.04	2.17	0.06	0.3	<0.01	0.014	0.22	6.9	6.3	12.05	680	0.09	0.03	2.8	5.1
H885761		3.12	5.30	0.07	0.6	<0.01	0.044	0.54	5.5	7.7	10.50	1920	0.11	0.02	4.3	7.9
H885762		24.4	1.42	0.32	0.2	0.08	0.113	0.07	25.6	2.2	5.03	1500	11.30	0.01	1.3	16.1
H885763		0.53	1.37	0.06	0.2	<0.01	0.007	0.30	4.0	5.2	11.65	379	0.20	0.02	0.9	5.6
H885764		6.22	19.60	0.14	1.3	<0.01	0.046	4.44	14.7	39.2	3.20	239	0.75	0.09	10.4	128.5
H885765		9.45	20.1	0.16	0.5	<0.01	0.036	5.45	9.2	30.3	2.61	263	0.38	0.13	10.0	243
H885766		5.03	19.60	0.12	0.5	<0.01	0.045	5.76	15.5	49.2	3.47	606	0.37	0.11	12.9	280
H885767		9.55	19.70	0.17	0.7	<0.01	0.037	5.95	20.0	52.0	4.22	516	0.58	0.10	10.9	284
H885768		17.15	1.02	0.24	0.1	0.02	0.112	0.07	39.8	2.0	7.34	2260	6.20	0.01	0.4	7.5

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098645

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885733		390	3.0	1.9	0.004	1.03	0.84	0.4	3	<0.2	71.7	<0.05	0.18	<0.2	<0.005	0.07
H885734		1120	2.2	4.0	0.013	0.89	0.48	0.6	3	<0.2	73.6	<0.05	0.06	<0.2	<0.005	0.07
H885735		1280	2.9	217	0.003	2.45	0.15	9.2	2	30.7	188.0	1.12	0.06	4.8	0.462	1.92
H885736		140	1.6	20.5	0.002	0.57	0.10	3.4	2	5.6	235	0.26	0.05	1.2	0.129	0.16
H885737		2130	1.8	121.5	<0.002	1.18	0.07	20.4	2	18.3	253	2.11	<0.05	4.5	0.764	0.89
H885738		240	1.3	1.3	<0.002	0.02	<0.05	0.4	2	<0.2	50.8	<0.05	<0.05	<0.2	0.005	<0.02
H885739		1060	7.7	106.0	0.002	3.07	2.58	12.0	2	16.6	259	1.13	0.25	3.3	0.506	0.52
H885740		40	1.1	13.2	<0.002	0.30	0.06	2.0	2	1.3	255	0.17	0.07	0.8	0.078	0.05
H885741		30	1.2	8.4	<0.002	0.14	<0.05	1.4	3	0.6	244	0.06	0.05	0.7	0.043	0.03
H885742		280	4.8	24.9	<0.002	2.01	2.75	11.9	2	1.2	315	0.56	0.14	2.0	0.327	0.14
H885743		60	1.8	38.4	<0.002	0.38	0.06	4.1	3	0.7	342	0.18	0.05	3.5	0.108	0.17
H885744		120	15.5	7.0	0.005	>10.0	22.8	0.7	5	1.3	94.4	<0.05	0.87	0.6	0.010	0.10
H885745		310	5.3	119.0	<0.002	0.24	0.28	9.2	1	5.3	231	0.37	<0.05	3.0	0.397	1.25
H885746		790	2.9	255	<0.002	0.11	0.21	26.8	2	16.0	242	0.86	<0.05	1.6	1.020	3.56
H885747		760	1.8	16.6	<0.002	0.02	0.11	24.3	2	1.3	98.0	0.81	<0.05	1.7	1.000	0.34
H885748		670	2.9	202	<0.002	0.22	0.15	25.9	2	17.7	163.5	0.89	<0.05	2.2	1.075	3.62
H885749		200	5.3	26.0	<0.002	0.22	<0.05	5.5	3	0.7	653	0.24	0.06	3.1	0.185	0.12
H885750		160	5.3	22.6	<0.002	0.20	<0.05	4.7	3	0.6	663	0.20	<0.05	2.8	0.154	0.09
H885751		620	7.5	67.7	<0.002	0.07	0.11	14.0	2	11.3	406	0.61	<0.05	5.0	0.449	0.46
H885752		750	10.7	84.3	<0.002	0.15	0.15	18.1	2	23.0	367	0.67	<0.05	4.2	0.619	0.73
H885753		670	4.2	106.5	<0.002	0.02	0.27	22.5	2	9.8	288	0.56	<0.05	2.5	0.831	1.34
H885754		640	2.9	46.5	<0.002	0.01	0.36	21.8	2	2.9	304	0.53	<0.05	2.4	0.792	0.53
H885755		650	2.9	29.9	<0.002	0.01	0.40	22.9	2	1.2	347	0.53	<0.05	2.2	0.794	0.29
H885756		640	2.8	70.6	<0.002	0.01	0.44	23.3	2	5.9	392	0.52	<0.05	2.4	0.815	0.92
H885757		750	4.5	23.0	<0.002	0.01	1.29	23.6	2	14.5	281	0.62	<0.05	3.1	0.926	0.25
H885758		730	2.8	66.6	<0.002	0.01	0.28	22.9	2	9.3	263	0.62	<0.05	2.3	0.896	1.23
H885759		290	1.4	1.4	<0.002	0.01	<0.05	0.4	2	<0.2	54.5	<0.05	<0.05	<0.2	0.006	<0.02
H885760		180	2.3	14.1	<0.002	0.52	0.33	1.6	2	0.6	74.7	0.12	<0.05	0.5	0.075	0.17
H885761		320	2.9	31.7	<0.002	1.64	0.46	2.7	2	1.5	79.8	0.21	<0.05	0.7	0.116	0.39
H885762		70	7.1	5.6	0.004	>10.0	24.8	0.2	9	2.4	61.3	<0.05	1.37	0.4	0.008	0.17
H885763		30	<0.5	23.8	<0.002	0.17	0.50	1.3	3	0.3	52.7	0.05	<0.05	0.6	0.027	0.21
H885764		660	<0.5	227	0.002	6.40	0.75	24.8	2	4.4	24.3	0.54	<0.05	1.7	0.656	1.30
H885765		770	<0.5	326	<0.002	8.65	1.08	22.5	2	4.8	34.8	0.50	0.15	1.3	0.572	1.70
H885766		880	1.4	413	<0.002	2.08	0.14	27.0	2	7.6	61.0	0.60	0.08	1.9	0.629	2.61
H885767		810	2.3	630	<0.002	4.58	0.15	24.2	3	7.2	58.9	0.49	0.06	1.9	0.526	3.71
H885768		120	16.5	8.1	0.005	>10.0	22.3	0.6	5	1.2	89.0	<0.05	0.80	0.5	0.008	0.11

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098645

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885733		5.6	24	0.2	2.6	730	1.1	
H885734		8.6	32	0.2	4.4	38	1.2	
H885735		2.5	76	2.3	13.0	44	72.9	
H885736		1.1	19	0.5	6.6	5	14.3	
H885737		0.8	148	1.2	15.0	36	37.3	
H885738		0.8	2	0.1	0.9	15	<0.5	
H885739		1.4	85	88.0	9.2	13	44.5	
H885740		0.3	6	0.6	2.4	2	6.8	
H885741		0.3	5	0.3	2.0	<2	5.2	
H885742		0.6	60	2.2	8.6	20	20.3	
H885743		0.5	21	0.4	8.9	7	15.4	
H885744		0.7	5	206	7.2	147	3.2	2.61
H885745		0.5	63	1.5	10.5	44	24.7	
H885746		0.3	173	3.4	17.6	103	16.2	
H885747		0.2	166	0.7	17.9	106	11.5	
H885748		0.3	168	3.4	17.2	111	13.6	
H885749		0.6	28	0.4	9.0	30	18.5	
H885750		0.5	24	0.3	7.8	26	18.3	
H885751		0.8	74	0.9	16.0	54	15.3	
H885752		0.7	97	1.2	17.5	67	21.9	
H885753		0.4	142	1.1	17.5	102	18.1	
H885754		0.3	137	0.8	16.6	112	15.6	
H885755		0.4	140	0.6	17.3	104	20.9	
H885756		0.4	142	2.2	17.8	102	18.3	
H885757		0.5	156	10.1	20.8	113	37.9	
H885758		0.4	139	1.9	18.1	102	6.8	
H885759		0.7	3	0.1	1.0	14	<0.5	
H885760		0.5	14	2.4	6.6	16	11.6	
H885761		1.1	32	5.8	7.1	15	22.7	
H885762		0.4	5	36.7	4.5	11	5.3	4.45
H885763		0.2	7	0.3	3.5	9	6.1	
H885764		0.8	132	1.9	12.2	16	45.7	
H885765		0.5	138	2.2	8.2	18	19.9	
H885766		0.3	187	3.3	15.9	24	15.6	
H885767		0.5	164	1.9	11.6	37	20.6	
H885768		0.9	4	203	6.9	142	2.7	2.59

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098645

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

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

Finalized Date: 4-OCT-2009
This copy reported on 21-OCT-2009
Account: RCM

CERTIFICATE VA09098644

Project: RAU

P.O. No.: Batch 46

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-SEP-2009. *CORRECTED COPY*

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098644

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885769		4.22	<0.01	0.03	6.96	22.4	1170	0.81	0.52	8.12	0.04	32.7	45.8	231	72.2	13.9
H885770		4.02	<0.01	0.19	6.73	153.5	780	1.06	2.97	5.69	<0.02	44.7	62.4	211	48.8	61.2
H885771		3.82	<0.01	0.14	7.28	6.1	1870	0.78	0.92	8.34	0.02	33.1	50.8	247	49.7	85.6
H885772		5.60	<0.01	0.08	6.95	132.0	3200	0.94	3.41	5.73	0.02	22.5	51.4	238	23.8	56.0
H885773		5.34	0.01	0.15	0.31	68	110	0.26	9.81	19.80	0.07	7.43	2.5	6	1.47	3.2
H885774		3.86	0.13	0.13	0.06	263	670	0.20	7.29	19.25	0.04	4.16	0.8	2	0.27	2.5
H885775		2.48	3.92	0.14	0.04	3070	30	0.15	58.0	13.05	0.04	4.18	0.4	<1	0.23	2.7
H885776		4.20	0.01	0.05	0.05	34	60	0.29	4.32	19.70	0.05	5.62	0.5	1	0.44	1.7
H885777		2.16	0.01	0.08	0.05	24	60	0.17	2.96	19.75	0.03	5.69	0.5	1	0.38	1.6
H885778		5.70	<0.01	0.20	0.80	109	220	0.29	0.70	34.5	0.57	13.50	2.9	30	0.52	4.9
H885779		1.22	0.01	0.63	2.17	2690	650	0.55	285	12.10	6.74	39.1	25.6	77	3.02	83.8
H885780		0.32	1.56	1.71	0.11	>10000	30	0.17	332	12.60	0.80	63.7	1.5	6	0.66	16.4
H885781		5.22	<0.01	0.14	0.19	31	120	0.20	1.33	35.2	0.36	6.34	1.1	4	0.14	2.3
H885782		5.26	0.01	0.15	0.64	168	450	0.33	1.38	34.2	0.41	7.40	2.8	13	1.43	6.0
H885783		5.66	0.01	0.06	0.22	30	120	0.24	0.22	37.4	0.30	4.29	1.1	3	0.27	2.0
H885784		8.26	<0.01	0.09	0.20	44	90	0.14	0.44	36.5	0.34	3.76	1.3	3	0.24	2.2
H885785		5.38	0.01	0.34	1.09	174	390	0.32	2.64	33.4	0.91	11.25	4.9	23	2.37	10.8
H885786		2.98	0.02	0.42	0.25	103	180	0.32	0.36	35.6	1.06	8.03	1.9	5	0.55	3.2
H885787		4.92	0.03	0.10	0.08	65	30	0.32	2.80	18.75	0.11	3.16	0.5	3	0.34	1.2
H885788		5.78	0.02	0.18	0.18	332	20	0.26	156.5	14.50	0.03	5.13	8.9	4	1.46	9.9
H885789		5.82	0.62	0.38	0.14	1670	20	0.25	101.0	13.95	0.06	4.09	0.8	3	0.52	36.2
H885790		5.82	0.08	0.10	0.13	299	10	0.16	18.95	17.45	0.03	4.72	0.7	2	0.32	3.6
H885791		5.24	0.18	0.33	0.76	1340	30	0.44	411	3.92	0.09	68.1	9.2	25	5.56	50.8
H885792		3.48	<0.01	0.07	0.07	<5	10	0.21	0.92	20.5	0.06	1.49	0.8	<1	0.15	1.6
H885793		4.08	0.10	0.18	0.11	358	10	0.33	244	5.54	0.05	54.9	3.9	9	0.61	56.3
H885794		3.10	0.17	0.49	0.07	2070	10	<0.05	870	0.17	0.03	7.51	14.5	<1	0.14	110.0
H885795		1.76	0.28	0.39	0.07	3050	10	<0.05	522	1.68	0.07	18.65	3.3	3	0.25	16.1
H885796		5.84	0.02	0.15	0.03	144	10	0.12	79.8	17.25	0.04	6.06	2.5	<1	0.23	10.2
H885797		1.20	0.04	0.59	0.06	617	10	<0.05	1165	0.51	<0.02	1.74	15.9	<1	0.64	213
H885798		0.30	1.55	1.75	0.12	>10000	30	<0.05	345	12.00	0.89	59.0	1.6	11	0.65	17.0
H885799		4.66	0.02	1.82	3.17	4350	1300	0.70	320	8.92	10.90	31.4	14.2	78	8.68	37.5
H885800		7.70	0.20	1.31	0.78	9970	550	0.12	760	0.37	1.76	7.14	3.9	27	0.92	13.2
H885801		10.36	0.23	12.45	0.50	>10000	2330	<0.05	1140	0.37	1.36	8.38	2.5	18	0.38	19.5
H885802		3.74	<0.01	0.01	0.12	35	30	0.08	1.43	19.25	0.08	1.62	1.1	5	0.30	2.4
H885803		0.66	2.25	36.0	1.36	2210	6960	0.32	490	0.19	0.11	406	0.4	34	0.22	5.0
H885804		1.70	0.84	28.5	1.18	>10000	2560	0.38	606	0.86	0.69	13.80	2.4	23	3.71	6.2

Comments: **CORRECTED COPY FOR Au-AA26 ON ALL SAMPLES**

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098644

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Sample Description LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885769	6.75	17.55	0.13	1.0	<0.01	0.054	4.42	16.3	55.9	3.66	979	0.53	0.47	14.9	237
H885770	7.51	20.7	0.13	0.9	<0.01	0.030	4.64	24.6	47.4	4.36	441	0.56	0.10	11.5	272
H885771	5.55	21.1	0.12	0.5	<0.01	0.039	5.15	17.1	56.3	4.74	704	0.46	0.08	10.9	246
H885772	8.24	18.40	0.15	0.9	<0.01	0.037	4.32	10.1	33.5	3.52	497	0.42	0.05	7.8	252
H885773	1.65	1.47	<0.05	0.1	<0.01	0.012	0.13	4.2	4.7	11.90	770	0.19	0.02	0.5	7.7
H885774	2.99	0.25	<0.05	<0.1	<0.01	0.010	0.03	2.7	2.7	11.15	768	0.35	0.01	0.1	3.3
H885775	17.10	0.27	0.13	<0.1	<0.1	0.022	0.01	2.9	2.2	7.73	731	0.22	0.01	0.1	1.0
H885776	0.69	0.31	<0.05	<0.1	<0.01	0.010	0.03	4.0	3.8	12.70	517	0.21	0.01	0.1	0.7
H885777	0.62	0.26	<0.05	<0.1	<0.01	0.008	0.03	4.2	3.9	12.80	506	0.21	0.01	0.1	1.0
H885778	1.14	1.83	0.05	0.3	0.01	0.010	0.35	7.9	2.8	0.31	333	1.19	0.01	5.7	8.1
H885779	26.1	8.57	0.23	0.6	<0.1	0.031	0.69	28.7	7.3	0.44	1100	7.76	0.04	6.2	128.0
H885780	16.25	0.95	0.15	0.1	<1	0.096	0.06	40.9	2.0	6.78	2160	5.61	0.01	0.4	6.9
H885781	0.32	0.54	<0.05	0.1	<0.01	0.006	0.08	4.8	0.9	0.45	214	0.68	<0.01	1.1	1.7
H885782	0.84	1.63	<0.05	0.2	<0.01	0.011	0.24	5.6	3.2	0.31	278	1.34	0.01	2.4	12.2
H885783	0.29	0.58	<0.05	0.1	<0.01	0.005	0.08	4.0	0.9	0.25	187	0.42	0.01	1.0	2.9
H885784	0.37	0.55	0.05	0.1	<0.01	0.005	0.08	3.8	0.8	0.24	225	0.33	0.01	1.0	2.3
H885785	1.33	2.72	<0.05	0.4	0.01	0.026	0.36	7.4	6.5	0.47	592	0.50	0.01	4.1	18.9
H885786	0.62	0.74	<0.05	0.1	0.01	0.007	0.09	6.0	0.9	0.28	346	0.28	0.01	2.0	2.7
H885787	1.23	0.33	<0.05	<0.1	<0.1	0.007	0.03	2.4	4.1	12.00	515	0.86	0.02	0.2	1.3
H885788	9.50	1.10	0.10	0.1	<0.1	0.009	0.10	3.0	2.6	9.48	408	1.22	0.01	0.2	9.7
H885789	12.65	0.77	0.11	0.1	<0.1	0.154	0.04	3.0	2.0	8.73	451	1.53	0.01	0.3	2.5
H885790	3.75	0.68	<0.05	0.1	<0.01	0.007	0.03	2.8	2.5	11.30	661	0.39	0.02	0.2	1.5
H885791	26.7	5.29	0.24	0.2	<0.1	0.020	0.34	42.7	3.6	3.99	322	0.36	0.04	0.9	32.0
H885792	0.46	0.24	<0.05	<0.1	<0.01	0.007	0.03	0.7	1.3	13.25	205	0.08	0.01	0.3	0.7
H885793	19.25	0.93	0.16	<0.1	<1	0.020	0.03	36.7	1.9	5.20	378	0.22	0.02	0.2	11.5
H885794	41.8	0.71	0.31	<0.1	<0.01	0.036	0.01	4.8	2.3	0.91	48	0.31	0.01	0.1	15.2
H885795	31.0	0.59	0.27	<0.1	<0.01	<0.005	0.01	11.9	2.3	1.11	184	0.25	0.01	0.1	6.0
H885796	4.43	0.27	<0.05	<0.1	<0.01	0.008	0.01	3.7	3.7	11.20	492	0.12	0.01	0.1	2.4
H885797	>50	0.65	0.34	<0.1	<1	0.047	0.03	0.5	2.2	3.09	93	0.14	0.01	0.2	67.0
H885798	16.45	1.04	0.29	0.1	<0.1	0.097	0.06	35.1	1.7	6.94	2160	5.80	<0.01	0.6	6.9
H885799	28.2	10.20	0.37	0.9	<1	0.117	1.06	17.8	12.1	0.68	2540	3.34	0.01	6.7	76.6
H885800	>50	4.27	0.89	0.8	0.03	0.070	0.28	3.5	2.2	0.22	441	7.43	<0.01	1.9	20.5
H885801	>50	3.15	0.79	0.6	0.04	0.077	0.11	3.9	1.4	0.18	624	8.41	0.02	2.2	10.4
H885802	0.65	0.33	0.06	<0.1	<0.01	0.009	0.05	0.7	1.2	12.40	196	0.18	<0.01	0.4	1.7
H885803	4.68	11.00	0.30	1.0	0.89	0.054	0.02	250	1.8	0.51	86	1.02	0.18	5.3	2.3
H885804	33.2	7.73	0.61	1.1	0.04	0.075	0.48	8.7	7.1	0.17	759	1.39	0.02	4.3	10.9

Comments: **CORRECTED COPY FOR Au-AA26 ON ALL SAMPLES**

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098644

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885769		880	1.5	438	<0.002	0.26	0.31	23.7	2	6.7	80.3	0.76	<0.05	2.0	0.672	3.90
H885770		850	2.0	530	<0.002	5.37	0.28	22.7	2	8.4	44.7	0.59	0.16	1.9	0.438	3.76
H885771		870	1.2	374	<0.002	2.25	0.17	26.7	2	6.5	63.6	0.65	0.07	1.8	0.547	3.41
H885772		780	1.8	301	0.003	9.46	0.47	22.3	2	3.2	42.8	0.43	0.05	1.7	0.409	2.18
H885773		30	3.1	26.5	0.003	1.75	0.35	1.5	2	0.5	123.0	<0.05	0.06	0.3	0.016	0.16
H885774		10	2.3	2.5	0.004	1.60	10.40	0.3	2	0.3	54.4	<0.05	0.09	<0.2	<0.005	0.30
H885775		<10	2.7	1.3	0.010	>10.0	1.85	0.4	4	0.3	74.3	<0.05	0.19	<0.2	<0.005	0.09
H885776		10	1.8	6.0	0.002	0.40	0.38	0.5	2	0.2	114.0	<0.05	<0.05	<0.2	<0.005	0.13
H885777		10	1.6	5.2	0.002	0.37	0.32	0.6	2	0.2	116.5	<0.05	<0.05	<0.2	<0.005	0.10
H885778		70	4.8	10.7	0.003	0.02	0.88	2.9	2	0.3	111.0	0.30	<0.05	0.8	0.122	0.22
H885779		990	26.7	38.2	<0.002	0.02	14.55	6.9	3	2.0	42.4	0.35	0.84	2.5	0.134	2.06
H885780		120	14.7	7.6	0.006	>10.0	22.7	0.5	5	1.2	85.7	<0.05	0.81	0.6	0.006	0.08
H885781		90	2.0	2.7	<0.002	0.01	0.37	0.8	2	<0.2	143.5	0.06	<0.05	0.2	0.022	0.05
H885782		120	16.9	11.7	0.002	0.02	0.70	1.8	2	0.4	139.0	0.14	0.05	0.6	0.068	0.17
H885783		90	3.5	3.2	<0.002	0.01	0.22	0.8	2	<0.2	147.5	0.05	0.10	0.2	0.023	0.03
H885784		100	7.4	3.3	0.002	0.02	0.28	0.8	2	0.3	144.5	0.05	<0.05	0.2	0.022	0.05
H885785		170	48.7	21.4	0.002	0.01	1.66	3.0	2	0.8	111.5	0.23	0.08	1.0	0.099	0.35
H885786		80	8.7	5.8	0.004	0.03	0.61	1.0	2	0.2	105.5	0.12	0.06	0.3	0.025	0.08
H885787		10	5.2	5.2	0.004	1.27	0.42	0.4	2	0.2	36.8	<0.05	<0.05	<0.2	<0.005	0.07
H885788		10	5.0	26.9	0.004	>10.0	1.63	0.7	4	0.3	32.2	<0.05	0.24	<0.2	0.009	0.15
H885789		10	2.9	8.5	0.004	>10.0	2.12	0.4	4	29.1	37.7	<0.05	0.40	0.2	0.006	0.07
H885790		10	1.4	5.2	0.004	4.68	0.60	0.6	2	0.4	43.4	<0.05	0.08	<0.2	0.006	0.03
H885791		210	8.6	99.6	0.004	>10.0	7.73	2.1	8	2.2	19.7	<0.05	0.58	0.6	0.036	0.43
H885792		250	1.3	1.2	<0.002	0.06	0.11	0.3	2	<0.2	46.9	<0.05	<0.05	<0.2	<0.005	<0.02
H885793		30	4.5	5.1	0.002	>10.0	5.97	0.8	7	0.5	16.9	<0.05	0.41	0.3	0.006	0.04
H885794		20	8.3	0.6	0.006	>10.0	13.90	0.1	5	0.6	2.0	<0.05	0.76	0.2	<0.005	<0.02
H885795		10	9.1	1.1	<0.002	>10.0	9.36	0.1	4	0.9	5.8	<0.05	0.09	<0.2	<0.005	<0.02
H885796		<10	2.0	1.6	<0.002	4.34	1.31	0.5	2	0.2	44.2	<0.05	0.11	<0.2	<0.005	<0.02
H885797		<10	3.6	7.1	0.004	>10.0	9.37	0.3	7	1.3	2.8	<0.05	0.88	<0.2	<0.005	0.02
H885798		110	15.9	7.3	0.005	>10.0	21.0	0.2	5	1.2	91.3	<0.05	0.96	0.5	0.006	0.11
H885799		990	168.5	67.9	<0.002	0.06	19.30	7.1	2	2.8	40.7	0.34	1.05	3.0	0.184	1.53
H885800		760	68.5	16.1	0.004	0.09	28.2	3.2	5	1.4	6.0	0.14	2.30	1.4	0.034	0.12
H885801		310	187.5	5.1	0.007	0.12	25.1	2.8	5	4.0	13.3	0.10	2.25	1.0	0.032	0.09
H885802		340	1.6	2.2	<0.002	0.02	0.15	0.1	2	<0.2	48.2	<0.05	<0.05	<0.2	0.005	<0.02
H885803		220	185.5	1.0	0.002	0.20	41.2	0.6	3	34.0	32.9	0.30	0.66	2.2	0.122	0.04
H885804		390	89.8	35.6	0.018	0.62	60.3	2.8	14	5.4	92.1	0.21	1.26	2.2	0.063	1.04

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Project: RAU

Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098644

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885769		0.4	163	1.2	17.0	46	41.0	
H885770		0.6	171	4.1	13.2	24	35.5	
H885771		0.3	177	2.3	15.2	33	14.5	
H885772		0.4	151	1.5	12.4	21	30.7	
H885773		0.7	13	1.2	4.2	16	3.5	
H885774		1.9	5	0.4	2.9	14	0.6	
H885775		0.5	7	0.3	3.6	7	<0.5	
H885776		0.3	7	1.0	3.6	9	0.6	
H885777		0.3	7	0.9	3.7	8	<0.5	
H885778		0.4	12	1.0	8.3	73	12.8	
H885779		3.3	44	17.3	15.4	822	24.5	
H885780		0.7	5	198.5	7.3	132	2.9	2.72
H885781		0.2	3	0.7	5.2	24	4.0	
H885782		0.3	9	1.2	5.2	208	7.1	
H885783		0.1	2	0.3	5.1	49	3.4	
H885784		0.1	2	0.5	4.3	40	3.1	
H885785		0.4	16	2.2	6.9	437	13.6	
H885786		0.2	10	0.9	5.3	78	4.6	
H885787		0.5	5	0.8	2.9	24	1.1	
H885788		0.8	8	2.2	3.0	10	1.8	
H885789		1.2	6	1.8	3.1	15	2.6	
H885790		1.4	5	0.7	2.2	7	1.6	
H885791		1.2	20	160.5	3.3	12	6.2	
H885792		0.7	2	0.3	1.0	15	<0.5	
H885793		0.6	5	14.9	2.3	12	1.2	
H885794		0.2	4	3.1	0.3	10	<0.5	
H885795		0.7	2	1.9	1.8	10	0.6	
H885796		0.2	4	1.3	5.1	10	0.5	
H885797		0.1	3	1820	0.7	10	<0.5	
H885798		1.5	7	221	7.0	131	2.7	2.70
H885799		2.2	70	25.2	25.9	2080	34.9	
H885800		3.6	25	17.6	7.4	367	16.4	
H885801		2.4	20	358	7.4	587	16.5	1.16
H885802		0.5	4	0.6	1.0	15	0.5	
H885803		5.5	39	115.0	4.4	50	37.6	
H885804		4.0	23	1360	8.3	189	42.5	2.67

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

CERTIFICATE OF ANALYSIS VA09098644

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE VA09098644

Project: RAU

P.O. No.: Batch 46

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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CERTIFICATE OF ANALYSIS VA09098644

Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885769	4.22	<0.01	0.03	6.96	22.4	1170	0.81	0.52	8.12	0.04	32.7	45.8	231	72.2	13.9
H885770	4.02	<0.01	0.19	6.73	153.5	780	1.06	2.97	5.69	<0.02	44.7	62.4	211	48.8	61.2
H885771	3.82	<0.01	0.14	7.28	6.1	1870	0.78	0.92	8.34	0.02	33.1	50.8	247	49.7	85.6
H885772	5.60	<0.01	0.08	6.95	132.0	3200	0.94	3.41	5.73	0.02	22.5	51.4	238	23.8	56.0
H885773	5.34	0.01	0.15	0.31	68	110	0.26	9.81	19.80	0.07	7.43	2.5	6	1.47	3.2
H885774	3.86	0.06	0.13	0.06	263	670	0.20	7.29	19.25	0.04	4.16	0.8	2	0.27	2.5
H885775	2.48	0.25	0.14	0.04	3070	30	0.15	58.0	13.05	0.04	4.18	0.4	<1	0.23	2.7
H885776	4.20	<0.01	0.05	0.05	34	60	0.29	4.32	19.70	0.05	5.62	0.5	1	0.44	1.7
H885777	2.16	0.01	0.08	0.05	24	60	0.17	2.96	19.75	0.03	5.69	0.5	1	0.38	1.6
H885778	5.70	0.04	0.20	0.80	109	220	0.29	0.70	34.5	0.57	13.50	2.9	30	0.52	4.9
H885779	1.22	0.01	0.63	2.17	2690	650	0.55	285	12.10	6.74	39.1	25.6	77	3.02	83.8
H885780	0.32	1.74	1.71	0.11	>10000	30	0.17	332	12.60	0.80	63.7	1.5	6	0.66	16.4
H885781	5.22	<0.01	0.14	0.19	31	120	0.20	1.33	35.2	0.36	6.34	1.1	4	0.14	2.3
H885782	5.26	0.01	0.15	0.64	168	450	0.33	1.38	34.2	0.41	7.40	2.8	13	1.43	6.0
H885783	5.66	0.01	0.06	0.22	30	120	0.24	0.22	37.4	0.30	4.29	1.1	3	0.27	2.0
H885784	8.26	<0.01	0.09	0.20	44	90	0.14	0.44	36.5	0.34	3.76	1.3	3	0.24	2.2
H885785	5.38	0.01	0.34	1.09	174	390	0.32	2.64	33.4	0.91	11.25	4.9	23	2.37	10.8
H885786	2.98	0.02	0.42	0.25	103	180	0.32	0.36	35.6	1.06	8.03	1.9	5	0.55	3.2
H885787	4.92	0.03	0.10	0.08	65	30	0.32	2.80	18.75	0.11	3.16	0.5	3	0.34	1.2
H885788	5.78	0.02	0.18	0.18	332	20	0.26	156.5	14.50	0.03	5.13	8.9	4	1.46	9.9
H885789	5.82	0.65	0.38	0.14	1670	20	0.25	101.0	13.95	0.06	4.09	0.8	3	0.52	36.2
H885790	5.82	0.08	0.10	0.13	299	10	0.16	18.95	17.45	0.03	4.72	0.7	2	0.32	3.6
H885791	5.24	0.26	0.33	0.76	1340	30	0.44	411	3.92	0.09	68.1	9.2	25	5.56	50.8
H885792	3.48	<0.01	0.07	0.07	<5	10	0.21	0.92	20.5	0.06	1.49	0.8	<1	0.15	1.6
H885793	4.08	0.11	0.18	0.11	358	10	0.33	244	5.54	0.05	54.9	3.9	9	0.61	56.3
H885794	3.10	0.35	0.49	0.07	2070	10	<0.05	870	0.17	0.03	7.51	14.5	<1	0.14	110.0
H885795	1.76	0.34	0.39	0.07	3050	10	<0.05	522	1.68	0.07	18.65	3.3	3	0.25	16.1
H885796	5.84	0.03	0.15	0.03	144	10	0.12	79.8	17.25	0.04	6.06	2.5	<1	0.23	10.2
H885797	1.20	<0.01	0.59	0.06	617	10	<0.05	1165	0.51	<0.02	1.74	15.9	<1	0.64	213
H885798	0.30	1.60	1.75	0.12	>10000	30	<0.05	345	12.00	0.89	59.0	1.6	11	0.65	17.0
H885799	4.66	0.03	1.82	3.17	4350	1300	0.70	320	8.92	10.90	31.4	14.2	78	8.68	37.5
H885800	7.70	0.20	1.31	0.78	9970	550	0.12	760	0.37	1.76	7.14	3.9	27	0.92	13.2
H885801	10.36	0.22	12.45	0.50	>10000	2330	<0.05	1140	0.37	1.36	8.38	2.5	18	0.38	19.5
H885802	3.74	<0.01	0.01	0.12	35	30	0.08	1.43	19.25	0.08	1.62	1.1	5	0.30	2.4
H885803	0.66	2.39	36.0	1.36	2210	6960	0.32	490	0.19	0.11	406	0.4	34	0.22	5.0
H885804	1.70	0.94	28.5	1.18	>10000	2560	0.38	606	0.86	0.69	13.80	2.4	23	3.71	6.2

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098644

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885769		6.75	17.55	0.13	1.0	<0.01	0.054	4.42	16.3	55.9	3.66	979	0.53	0.47	14.9	237
H885770		7.51	20.7	0.13	0.9	<0.01	0.030	4.64	24.6	47.4	4.36	441	0.56	0.10	11.5	272
H885771		5.55	21.1	0.12	0.5	<0.01	0.039	5.15	17.1	56.3	4.74	704	0.46	0.08	10.9	246
H885772		8.24	18.40	0.15	0.9	<0.01	0.037	4.32	10.1	33.5	3.52	497	0.42	0.05	7.8	252
H885773		1.65	1.47	<0.05	0.1	<0.01	0.012	0.13	4.2	4.7	11.90	770	0.19	0.02	0.5	7.7
H885774		2.99	0.25	<0.05	<0.1	<0.01	0.010	0.03	2.7	2.7	11.15	768	0.35	0.01	0.1	3.3
H885775		17.10	0.27	0.13	<0.1	<0.1	0.022	0.01	2.9	2.2	7.73	731	0.22	0.01	0.1	1.0
H885776		0.69	0.31	<0.05	<0.1	<0.01	0.010	0.03	4.0	3.8	12.70	517	0.21	0.01	0.1	0.7
H885777		0.62	0.26	<0.05	<0.1	<0.01	0.008	0.03	4.2	3.9	12.80	506	0.21	0.01	0.1	1.0
H885778		1.14	1.83	0.05	0.3	0.01	0.010	0.35	7.9	2.8	0.31	333	1.19	0.01	5.7	8.1
H885779		26.1	8.57	0.23	0.6	<0.1	0.031	0.69	28.7	7.3	0.44	1100	7.76	0.04	6.2	128.0
H885780		16.25	0.95	0.15	0.1	<1	0.096	0.06	40.9	2.0	6.78	2160	5.61	0.01	0.4	6.9
H885781		0.32	0.54	<0.05	0.1	<0.01	0.006	0.08	4.8	0.9	0.45	214	0.68	<0.01	1.1	1.7
H885782		0.84	1.63	<0.05	0.2	<0.01	0.011	0.24	5.6	3.2	0.31	278	1.34	0.01	2.4	12.2
H885783		0.29	0.58	<0.05	0.1	<0.01	0.005	0.08	4.0	0.9	0.25	187	0.42	0.01	1.0	2.9
H885784		0.37	0.55	0.05	0.1	<0.01	0.005	0.08	3.8	0.8	0.24	225	0.33	0.01	1.0	2.3
H885785		1.33	2.72	<0.05	0.4	0.01	0.026	0.36	7.4	6.5	0.47	592	0.50	0.01	4.1	18.9
H885786		0.62	0.74	<0.05	0.1	0.01	0.007	0.09	6.0	0.9	0.28	346	0.28	0.01	2.0	2.7
H885787		1.23	0.33	<0.05	<0.1	<0.1	0.007	0.03	2.4	4.1	12.00	515	0.86	0.02	0.2	1.3
H885788		9.50	1.10	0.10	0.1	<0.1	0.009	0.10	3.0	2.6	9.48	408	1.22	0.01	0.2	9.7
H885789		12.65	0.77	0.11	0.1	<0.1	0.154	0.04	3.0	2.0	8.73	451	1.53	0.01	0.3	2.5
H885790		3.75	0.68	<0.05	0.1	<0.01	0.007	0.03	2.8	2.5	11.30	661	0.39	0.02	0.2	1.5
H885791		26.7	5.29	0.24	0.2	<0.1	0.020	0.34	42.7	3.6	3.99	322	0.36	0.04	0.9	32.0
H885792		0.46	0.24	<0.05	<0.1	<0.01	0.007	0.03	0.7	1.3	13.25	205	0.08	0.01	0.3	0.7
H885793		19.25	0.93	0.16	<0.1	<1	0.020	0.03	36.7	1.9	5.20	378	0.22	0.02	0.2	11.5
H885794		41.8	0.71	0.31	<0.1	<0.01	0.036	0.01	4.8	2.3	0.91	48	0.31	0.01	0.1	15.2
H885795		31.0	0.59	0.27	<0.1	<0.01	<0.005	0.01	11.9	2.3	1.11	184	0.25	0.01	0.1	6.0
H885796		4.43	0.27	<0.05	<0.1	<0.01	0.008	0.01	3.7	3.7	11.20	492	0.12	0.01	0.1	2.4
H885797		>50	0.65	0.34	<0.1	<1	0.047	0.03	0.5	2.2	3.09	93	0.14	0.01	0.2	67.0
H885798		16.45	1.04	0.29	0.1	<0.1	0.097	0.06	35.1	1.7	6.94	2160	5.80	<0.01	0.6	6.9
H885799		28.2	10.20	0.37	0.9	<1	0.117	1.06	17.8	12.1	0.68	2540	3.34	0.01	6.7	76.6
H885800		>50	4.27	0.89	0.8	0.03	0.070	0.28	3.5	2.2	0.22	441	7.43	<0.01	1.9	20.5
H885801		>50	3.15	0.79	0.6	0.04	0.077	0.11	3.9	1.4	0.18	624	8.41	0.02	2.2	10.4
H885802		0.65	0.33	0.06	<0.1	<0.01	0.009	0.05	0.7	1.2	12.40	196	0.18	<0.01	0.4	1.7
H885803		4.68	11.00	0.30	1.0	0.89	0.054	0.02	250	1.8	0.51	86	1.02	0.18	5.3	2.3
H885804		33.2	7.73	0.61	1.1	0.04	0.075	0.48	8.7	7.1	0.17	759	1.39	0.02	4.3	10.9

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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Project: RAU

Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098644

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885769		880	1.5	438	<0.002	0.26	0.31	23.7	2	6.7	80.3	0.76	<0.05	2.0	0.672	3.90
H885770		850	2.0	530	<0.002	5.37	0.28	22.7	2	8.4	44.7	0.59	0.16	1.9	0.438	3.76
H885771		870	1.2	374	<0.002	2.25	0.17	26.7	2	6.5	63.6	0.65	0.07	1.8	0.547	3.41
H885772		780	1.8	301	0.003	9.46	0.47	22.3	2	3.2	42.8	0.43	0.05	1.7	0.409	2.18
H885773		30	3.1	26.5	0.003	1.75	0.35	1.5	2	0.5	123.0	<0.05	0.06	0.3	0.016	0.16
H885774		10	2.3	2.5	0.004	1.60	10.40	0.3	2	0.3	54.4	<0.05	0.09	<0.2	<0.005	0.30
H885775		<10	2.7	1.3	0.010	>10.0	1.85	0.4	4	0.3	74.3	<0.05	0.19	<0.2	<0.005	0.09
H885776		10	1.8	6.0	0.002	0.40	0.38	0.5	2	0.2	114.0	<0.05	<0.05	<0.2	<0.005	0.13
H885777		10	1.6	5.2	0.002	0.37	0.32	0.6	2	0.2	116.5	<0.05	<0.05	<0.2	<0.005	0.10
H885778		70	4.8	10.7	0.003	0.02	0.88	2.9	2	0.3	111.0	0.30	<0.05	0.8	0.122	0.22
H885779		990	26.7	38.2	<0.002	0.02	14.55	6.9	3	2.0	42.4	0.35	0.84	2.5	0.134	2.06
H885780		120	14.7	7.6	0.006	>10.0	22.7	0.5	5	1.2	85.7	<0.05	0.81	0.6	0.006	0.08
H885781		90	2.0	2.7	<0.002	0.01	0.37	0.8	2	<0.2	143.5	0.06	<0.05	0.2	0.022	0.05
H885782		120	16.9	11.7	0.002	0.02	0.70	1.8	2	0.4	139.0	0.14	0.05	0.6	0.068	0.17
H885783		90	3.5	3.2	<0.002	0.01	0.22	0.8	2	<0.2	147.5	0.05	0.10	0.2	0.023	0.03
H885784		100	7.4	3.3	0.002	0.02	0.28	0.8	2	0.3	144.5	0.05	<0.05	0.2	0.022	0.05
H885785		170	48.7	21.4	0.002	0.01	1.66	3.0	2	0.8	111.5	0.23	0.08	1.0	0.099	0.35
H885786		80	8.7	5.8	0.004	0.03	0.61	1.0	2	0.2	105.5	0.12	0.06	0.3	0.025	0.08
H885787		10	5.2	5.2	0.004	1.27	0.42	0.4	2	0.2	36.8	<0.05	<0.05	<0.2	<0.005	0.07
H885788		10	5.0	26.9	0.004	>10.0	1.63	0.7	4	0.3	32.2	<0.05	0.24	<0.2	0.009	0.15
H885789		10	2.9	8.5	0.004	>10.0	2.12	0.4	4	29.1	37.7	<0.05	0.40	0.2	0.006	0.07
H885790		10	1.4	5.2	0.004	4.68	0.60	0.6	2	0.4	43.4	<0.05	0.08	<0.2	0.006	0.03
H885791		210	8.6	99.6	0.004	>10.0	7.73	2.1	8	2.2	19.7	<0.05	0.58	0.6	0.036	0.43
H885792		250	1.3	1.2	<0.002	0.06	0.11	0.3	2	<0.2	46.9	<0.05	<0.05	<0.2	<0.005	<0.02
H885793		30	4.5	5.1	0.002	>10.0	5.97	0.8	7	0.5	16.9	<0.05	0.41	0.3	0.006	0.04
H885794		20	8.3	0.6	0.006	>10.0	13.90	0.1	5	0.6	2.0	<0.05	0.76	0.2	<0.005	<0.02
H885795		10	9.1	1.1	<0.002	>10.0	9.36	0.1	4	0.9	5.8	<0.05	0.09	<0.2	<0.005	<0.02
H885796		<10	2.0	1.6	<0.002	4.34	1.31	0.5	2	0.2	44.2	<0.05	0.11	<0.2	<0.005	<0.02
H885797		<10	3.6	7.1	0.004	>10.0	9.37	0.3	7	1.3	2.8	<0.05	0.88	<0.2	<0.005	0.02
H885798		110	15.9	7.3	0.005	>10.0	21.0	0.2	5	1.2	91.3	<0.05	0.96	0.5	0.006	0.11
H885799		990	168.5	67.9	<0.002	0.06	19.30	7.1	2	2.8	40.7	0.34	1.05	3.0	0.184	1.53
H885800		760	68.5	16.1	0.004	0.09	28.2	3.2	5	1.4	6.0	0.14	2.30	1.4	0.034	0.12
H885801		310	187.5	5.1	0.007	0.12	25.1	2.8	5	4.0	13.3	0.10	2.25	1.0	0.032	0.09
H885802		340	1.6	2.2	<0.002	0.02	0.15	0.1	2	<0.2	48.2	<0.05	<0.05	<0.2	0.005	<0.02
H885803		220	185.5	1.0	0.002	0.20	41.2	0.6	3	34.0	32.9	0.30	0.66	2.2	0.122	0.04
H885804		390	89.8	35.6	0.018	0.62	60.3	2.8	14	5.4	92.1	0.21	1.26	2.2	0.063	1.04

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Finalized Date: 4-OCT-2009
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Project: RAU

CERTIFICATE OF ANALYSIS VA09098644

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885769		0.4	163	1.2	17.0	46	41.0	
H885770		0.6	171	4.1	13.2	24	35.5	
H885771		0.3	177	2.3	15.2	33	14.5	
H885772		0.4	151	1.5	12.4	21	30.7	
H885773		0.7	13	1.2	4.2	16	3.5	
H885774		1.9	5	0.4	2.9	14	0.6	
H885775		0.5	7	0.3	3.6	7	<0.5	
H885776		0.3	7	1.0	3.6	9	0.6	
H885777		0.3	7	0.9	3.7	8	<0.5	
H885778		0.4	12	1.0	8.3	73	12.8	
H885779		3.3	44	17.3	15.4	822	24.5	
H885780		0.7	5	198.5	7.3	132	2.9	2.72
H885781		0.2	3	0.7	5.2	24	4.0	
H885782		0.3	9	1.2	5.2	208	7.1	
H885783		0.1	2	0.3	5.1	49	3.4	
H885784		0.1	2	0.5	4.3	40	3.1	
H885785		0.4	16	2.2	6.9	437	13.6	
H885786		0.2	10	0.9	5.3	78	4.6	
H885787		0.5	5	0.8	2.9	24	1.1	
H885788		0.8	8	2.2	3.0	10	1.8	
H885789		1.2	6	1.8	3.1	15	2.6	
H885790		1.4	5	0.7	2.2	7	1.6	
H885791		1.2	20	160.5	3.3	12	6.2	
H885792		0.7	2	0.3	1.0	15	<0.5	
H885793		0.6	5	14.9	2.3	12	1.2	
H885794		0.2	4	3.1	0.3	10	<0.5	
H885795		0.7	2	1.9	1.8	10	0.6	
H885796		0.2	4	1.3	5.1	10	0.5	
H885797		0.1	3	1820	0.7	10	<0.5	
H885798		1.5	7	221	7.0	131	2.7	2.70
H885799		2.2	70	25.2	25.9	2080	34.9	
H885800		3.6	25	17.6	7.4	367	16.4	
H885801		2.4	20	358	7.4	587	16.5	1.16
H885802		0.5	4	0.6	1.0	15	0.5	
H885803		5.5	39	115.0	4.4	50	37.6	
H885804		4.0	23	1360	8.3	189	42.5	2.67

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4-OCT-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098644

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE VA09098643

Project: RAU

P.O. No.: Batch 47

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09098643

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885805		5.60	2.41	2.27	0.98	>10000	2250	0.36	2080	0.82	0.87	11.85	3.1	14	1.68	9.4
H885806		2.36	0.50	0.56	1.43	8220	980	0.48	83.7	0.37	0.45	11.80	14.8	43	3.48	12.5
H885807		10.32	0.55	0.29	8.17	2780	2410	1.89	23.7	0.28	0.09	76.9	9.4	90	15.45	14.5
H885808		4.62	0.38	0.17	8.43	2390	3010	2.14	11.30	0.19	0.08	110.0	8.2	82	19.25	7.5
H885809		0.42	0.62	0.48	4.09	4840	780	1.17	14.00	0.72	0.15	62.8	14.8	61	24.7	10.4
H885810		4.08	5.23	0.39	4.81	>10000	1360	1.27	186.5	2.75	0.32	74.2	13.4	43	15.45	20.2
H885811		5.26	5.71	0.88	0.92	>10000	430	0.19	534	0.95	0.94	14.50	4.1	8	2.15	17.6
H885812		5.28	2.40	0.47	7.51	9690	2820	1.98	185.5	1.71	1.52	62.5	9.7	105	14.00	29.1
H885813		14.12	0.01	0.05	1.07	85	140	0.26	1.48	26.7	0.08	16.50	5.1	37	0.65	4.3
H885814		0.36	5.41	0.21	0.13	>10000	30	<0.05	486	8.90	0.05	36.0	1.7	15	0.69	38.7
H885815		1.30	1.79	0.42	2.48	>10000	630	0.69	78.4	6.73	1.54	17.50	5.6	28	3.03	13.3
H885816		6.24	1.21	0.58	3.32	>10000	1020	1.01	65.4	8.05	3.61	34.0	5.2	32	6.35	19.4
H885817		3.34	4.66	2.70	3.57	>10000	900	1.02	63.9	4.57	6.33	29.3	4.7	40	4.62	25.4
H885818		3.50	0.05	0.02	0.14	315	30	0.08	1.43	18.60	0.13	1.78	0.9	2	0.23	1.7
H885819		0.24	3.45	8.05	1.48	>10000	660	0.48	73.7	0.85	5.82	14.40	2.6	28	1.86	20.0
H885820		0.70	0.71	0.51	2.01	9830	850	0.51	76.4	0.44	3.73	29.7	2.7	47	11.10	15.1
H885821		4.48	0.02	0.18	0.09	63	10	0.09	1160	12.90	0.03	8.12	2.2	2	0.33	15.0
H885822		5.40	0.02	0.12	0.07	178	20	0.05	28.5	16.25	0.06	4.22	3.5	2	0.48	18.2
H885823		5.40	0.05	0.07	0.06	220	10	0.07	14.00	16.40	0.02	4.01	2.4	1	0.48	15.3
H885824		5.92	0.11	0.41	0.08	521	10	0.05	195.5	14.60	0.05	6.10	3.0	2	0.39	22.8
H885825		0.32	0.56	0.82	0.78	5730	130	0.24	101.0	11.85	0.15	30.7	5.4	14	1.71	30.4
H885826		5.28	0.02	0.09	0.06	160	10	<0.05	6.92	16.50	0.03	6.07	2.4	2	0.41	11.4
H885827		2.34	0.02	0.03	0.04	12	10	<0.05	1.30	19.05	0.03	7.70	1.6	1	0.17	3.2
H885828		5.36	0.03	0.08	0.05	128	10	0.06	4.59	17.75	0.08	3.50	6.9	2	0.21	6.1
H885829		5.10	0.02	0.04	0.13	16	20	0.12	1.24	17.60	0.08	3.55	2.7	3	0.18	4.3
H885830		0.86	0.10	0.50	7.84	350	3130	2.65	31.9	4.67	0.16	2.66	54.0	262	8.35	48.1
H885831		3.82	0.01	0.01	0.11	12	50	0.08	0.25	18.90	0.05	1.41	1.1	1	0.17	1.6
H885832		3.06	0.03	0.28	0.39	53	100	0.23	4.42	18.50	0.40	4.17	2.2	12	0.86	7.9
H885833		1.64	0.02	0.29	0.46	25	330	0.26	5.96	19.10	0.38	4.23	2.2	15	0.88	7.4
H885834		5.16	0.01	0.27	0.18	14	160	0.18	1.56	16.30	0.39	3.41	1.0	7	0.28	2.5
H885835		5.12	0.01	1.16	0.40	36	140	0.34	4.84	14.75	2.13	3.57	1.9	13	0.59	4.2
H885836		5.40	0.02	0.39	0.65	41	60	0.32	9.96	15.00	0.26	6.63	2.5	24	2.71	7.2
H885837		3.46	0.05	0.34	0.50	78	30	0.22	11.05	15.80	0.06	4.62	1.5	12	1.55	11.4
H885838		5.24	0.60	13.10	0.36	756	60	0.09	178.5	2.82	0.28	1.13	1.6	12	1.30	697
H885839		2.56	0.03	0.50	1.10	105	70	0.29	29.6	14.95	0.04	8.41	2.1	31	9.85	17.4
H885840		7.82	0.50	1.42	0.85	1170	130	0.17	150.0	0.89	0.04	0.94	1.6	21	2.10	14.7

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885805		41.7	7.04	0.56	1.0	0.02	0.115	0.29	7.6	2.4	0.14	1020	1.30	0.05	10.6	13.1
H885806		16.95	9.18	0.16	1.0	0.01	0.050	0.76	5.2	18.4	1.27	501	0.57	0.04	2.3	46.7
H885807		8.85	34.8	0.18	2.4	0.01	0.061	4.72	46.8	30.2	2.75	284	0.69	0.13	36.2	31.3
H885808		7.61	33.7	0.20	1.0	0.01	0.051	5.38	65.2	38.9	2.72	174	0.66	0.13	39.5	22.2
H885809		7.37	18.25	0.15	1.5	<0.01	0.031	2.33	32.0	22.6	6.62	886	0.71	0.11	26.1	41.8
H885810		26.2	20.5	0.39	2.1	0.01	0.122	2.07	37.1	16.3	3.75	1380	0.88	0.06	8.3	39.5
H885811		33.3	3.14	0.53	0.3	0.01	0.101	0.47	7.3	6.0	0.39	1060	0.87	0.02	1.1	11.0
H885812		13.95	29.8	0.23	3.0	0.01	0.086	3.21	29.4	29.6	2.79	509	0.64	0.13	11.3	37.3
H885813		1.32	2.80	<0.05	0.6	<0.01	0.016	0.51	11.4	5.0	1.29	200	0.28	0.02	6.0	17.5
H885814		23.8	1.08	0.25	0.1	0.01	0.077	0.07	25.4	1.1	4.86	1440	10.70	0.01	1.3	13.4
H885815		19.80	10.90	0.26	1.0	0.01	0.133	0.90	9.8	8.3	3.98	1480	0.43	0.05	5.2	20.6
H885816		16.20	10.40	0.21	1.0	0.01	0.141	1.10	19.7	12.5	5.36	1240	0.56	0.04	9.3	22.6
H885817		20.4	13.15	0.26	1.2	0.02	0.149	1.06	16.4	11.4	2.76	830	0.52	0.04	5.7	22.3
H885818		0.78	0.43	<0.05	<0.1	<0.01	0.005	0.05	0.9	1.3	12.00	191	0.07	0.01	0.7	3.0
H885819		18.50	5.97	0.20	0.5	0.03	0.093	0.42	7.2	4.2	0.44	575	1.02	0.02	1.2	10.9
H885820		14.95	9.99	0.16	0.9	0.01	0.086	1.88	16.0	22.6	1.81	391	0.78	0.06	5.1	8.5
H885821		3.96	0.93	0.06	<0.1	<0.01	<0.005	0.03	4.0	1.6	8.67	440	0.34	0.01	0.2	8.6
H885822		4.46	0.45	<0.05	<0.1	<0.01	0.010	0.05	2.4	3.1	10.90	436	0.26	0.01	0.4	4.0
H885823		4.51	0.42	<0.05	<0.1	<0.01	0.008	0.04	2.6	2.5	10.55	456	0.25	0.01	0.2	4.9
H885824		8.91	0.68	0.08	<0.1	<0.01	0.020	0.02	3.7	2.5	9.60	561	0.22	0.02	0.2	7.6
H885825		14.05	3.53	0.14	0.3	<0.01	0.072	0.37	19.5	4.0	6.54	1960	16.20	0.02	2.2	21.9
H885826		4.97	0.47	<0.05	<0.1	<0.01	0.013	0.02	3.3	2.6	11.05	648	0.36	0.01	0.1	7.4
H885827		0.61	0.39	<0.05	<0.1	<0.01	0.006	0.01	4.2	2.5	11.55	590	0.73	0.01	0.1	7.4
H885828		2.80	0.34	<0.05	<0.1	<0.01	0.012	0.01	2.2	3.0	11.35	681	0.59	0.01	0.1	14.0
H885829		0.56	0.67	<0.05	<0.1	<0.01	0.007	0.01	2.3	3.7	11.35	525	0.19	0.02	0.1	6.8
H885830		10.15	24.1	0.11	1.0	0.01	0.017	3.08	1.1	14.7	2.55	360	0.54	0.12	6.0	257
H885831		0.44	0.37	<0.05	<0.1	<0.01	<0.005	0.04	0.7	1.3	12.10	180	0.08	0.01	0.3	3.7
H885832		1.17	1.78	<0.05	0.1	<0.01	0.009	0.10	2.6	2.3	9.82	815	2.07	0.02	0.8	10.9
H885833		0.88	1.93	<0.05	0.2	<0.01	0.009	0.14	2.7	2.4	10.15	834	1.77	0.02	0.9	11.1
H885834		0.79	0.92	<0.05	0.1	<0.01	0.033	0.04	2.3	1.9	10.25	892	0.52	0.02	0.3	5.1
H885835		1.42	1.76	<0.05	0.2	0.01	0.118	0.11	2.5	2.3	9.09	1450	1.27	0.02	0.6	10.0
H885836		1.49	2.78	<0.05	0.3	<0.01	0.045	0.26	4.3	3.0	9.14	890	1.22	0.03	1.5	14.2
H885837		2.83	2.55	<0.05	0.2	<0.01	0.014	0.15	2.6	2.2	9.64	982	1.16	0.03	0.7	8.7
H885838		24.7	2.53	0.26	0.1	0.01	0.165	0.17	0.5	0.9	1.57	403	0.32	0.01	0.5	13.2
H885839		6.53	7.12	0.05	0.3	<0.01	0.102	0.70	3.5	4.5	8.13	2630	1.47	0.01	1.1	12.3
H885840		39.1	5.43	0.42	0.2	<0.01	0.018	0.35	<0.5	1.7	0.59	67	1.00	0.02	0.8	14.3

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Project: RAU

Finalized Date: 30-SEP-2009
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CERTIFICATE OF ANALYSIS VA09098643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885805		440	574	20.6	0.031	0.19	81.0	2.2	20	8.3	71.7	0.21	4.74	1.5	0.124	2.36
H885806		1330	50.7	85.8	0.002	1.23	4.60	3.2	5	1.1	267	0.12	0.37	2.5	0.065	1.10
H885807		2150	5.5	224	<0.002	1.28	2.28	10.3	7	5.5	176.5	2.19	0.18	9.6	0.327	2.31
H885808		1980	3.2	230	<0.002	1.52	1.78	12.4	10	5.8	315	2.32	0.13	9.0	0.444	2.59
H885809		1860	5.2	287	<0.002	0.35	2.22	8.3	8	3.3	77.4	1.46	0.37	6.0	0.374	2.21
H885810		2140	7.2	111.5	<0.002	0.23	7.91	7.0	13	2.4	46.2	0.63	0.24	6.8	0.115	1.08
H885811		1230	122.0	47.4	0.013	0.50	34.3	2.3	40	0.9	170.0	0.07	1.08	0.9	0.016	0.79
H885812		2270	18.8	130.5	0.002	0.56	8.44	11.1	13	3.4	171.0	0.63	0.31	7.4	0.256	1.46
H885813		370	3.8	19.6	<0.002	0.72	0.39	3.0	2	0.4	503	0.36	<0.05	1.1	0.173	0.11
H885814		60	6.3	7.9	0.004	>10.0	24.4	0.2	8	2.2	64.3	0.07	1.49	0.4	0.007	0.16
H885815		1200	11.4	42.5	<0.002	0.10	10.20	3.3	26	1.4	45.4	0.29	0.15	3.3	0.081	0.43
H885816		1360	52.6	67.6	0.002	0.13	11.50	4.7	14	1.6	60.2	0.55	0.18	3.8	0.132	0.74
H885817		1240	170.0	68.5	0.008	0.15	13.00	5.4	18	1.7	52.8	0.31	0.19	4.2	0.090	0.78
H885818		270	2.6	2.3	<0.002	0.01	0.40	0.4	2	<0.2	46.3	<0.05	<0.05	0.2	0.008	0.02
H885819		620	411	29.1	0.002	0.08	10.70	2.5	13	0.9	25.1	0.07	0.14	1.8	0.027	0.37
H885820		890	12.5	185.5	0.003	2.07	8.95	4.1	5	1.6	343	0.26	0.35	2.9	0.107	1.89
H885821		10	3.9	4.8	<0.002	2.62	7.33	2.0	4	0.3	50.2	<0.05	0.33	<0.2	<0.005	0.02
H885822		20	2.1	7.4	<0.002	2.94	0.79	0.4	3	0.4	42.3	<0.05	0.09	<0.2	0.005	0.05
H885823		10	1.6	7.8	<0.002	4.71	0.70	0.3	2	0.4	40.2	<0.05	0.07	<0.2	<0.005	0.04
H885824		10	4.7	3.7	<0.002	>10.0	6.05	0.4	5	1.9	38.3	<0.05	0.30	<0.2	<0.005	0.03
H885825		220	13.9	30.8	0.016	>10.0	4.36	1.6	6	2.9	90.3	0.13	0.20	0.7	0.061	0.27
H885826		10	1.7	5.0	<0.002	4.90	0.91	0.7	3	1.0	50.5	<0.05	<0.05	<0.2	<0.005	0.03
H885827		10	1.4	1.0	0.002	0.28	0.76	0.6	2	0.7	56.2	<0.05	<0.05	<0.2	<0.005	0.04
H885828		10	3.4	1.1	0.002	3.38	1.08	0.3	3	0.7	46.9	<0.05	0.08	<0.2	<0.005	0.08
H885829		20	2.3	0.8	<0.002	0.48	0.40	0.6	2	0.4	51.9	<0.05	<0.05	0.2	<0.005	0.04
H885830		850	8.6	224	0.037	>10.0	22.8	21.6	3	6.7	11.2	0.32	1.52	1.4	0.381	8.40
H885831		230	1.3	2.3	<0.002	0.06	0.14	0.4	2	<0.2	48.5	<0.05	<0.05	<0.2	0.006	0.04
H885832		20	29.0	15.5	0.007	1.13	5.03	1.2	2	1.3	65.1	<0.05	0.15	0.3	0.031	1.08
H885833		30	32.1	18.6	0.004	0.73	2.46	1.3	2	1.0	66.4	0.05	0.13	0.3	0.035	0.64
H885834		20	84.2	5.3	<0.002	0.45	0.67	0.7	2	1.6	54.2	<0.05	0.06	0.2	0.012	0.09
H885835		20	240	17.0	0.005	1.04	1.46	1.1	2	8.0	50.8	<0.05	0.19	0.3	0.024	0.36
H885836		40	20.4	56.5	0.002	1.35	1.30	2.0	2	2.1	61.0	0.08	0.31	0.4	0.058	0.41
H885837		20	5.4	32.8	<0.002	2.98	1.37	1.4	3	1.6	58.1	<0.05	0.16	0.4	0.027	0.20
H885838		<10	10.9	25.7	<0.002	>10.0	198.5	0.9	18	5.7	13.4	<0.05	0.30	<0.2	0.016	0.22
H885839		80	3.0	121.0	<0.002	5.54	3.74	2.6	4	0.7	76.9	0.05	0.25	0.3	0.061	0.91
H885840		<10	10.8	40.9	<0.002	>10.0	6.33	0.1	36	1.0	5.0	<0.05	0.44	<0.2	0.031	0.41

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885805		3.8	21	3120	9.2	141	36.9	3.02
H885806		2.2	27	206	13.9	65	41.5	
H885807		2.6	95	27.4	11.9	22	111.5	
H885808		0.9	123	24.8	8.1	22	44.8	
H885809		2.4	65	29.9	20.3	39	69.4	
H885810		2.9	52	33.2	23.0	76	83.8	0.99
H885811		3.8	13	1750	13.4	141	12.6	2.96
H885812		4.0	97	159.5	21.5	145	142.5	
H885813		0.7	34	2.2	9.7	30	24.3	
H885814		0.5	7	39.7	4.6	7	5.2	2.28
H885815		2.2	38	56.6	19.0	165	44.1	1.37
H885816		2.4	42	171.5	24.0	452	42.5	1.28
H885817		3.3	48	650	22.7	635	47.4	1.59
H885818		0.6	5	4.0	1.4	20	1.9	
H885819		2.4	26	200	12.5	889	22.2	1.23
H885820		1.7	38	246	8.8	276	38.1	
H885821		0.1	6	4.1	5.3	12	0.8	
H885822		0.9	8	5.0	2.3	7	1.6	
H885823		0.7	9	0.8	2.2	2	0.8	
H885824		1.2	8	1.3	2.8	7	0.7	
H885825		0.8	17	61.1	7.0	28	11.4	
H885826		0.2	10	2.1	4.1	6	<0.5	
H885827		0.2	11	1.0	5.4	7	<0.5	
H885828		0.3	9	7.6	2.9	14	0.5	
H885829		0.8	13	1.0	2.1	18	1.3	
H885830		16.9	176	7.5	4.4	254	40.4	
H885831		0.6	5	0.4	0.9	11	0.9	
H885832		1.3	9	2.3	2.9	103	5.1	
H885833		1.2	11	2.3	2.9	98	5.2	
H885834		0.6	12	1.1	2.2	100	2.6	
H885835		0.9	11	1.9	2.1	547	5.3	
H885836		0.9	13	1.9	3.4	68	10.5	
H885837		0.6	7	1.2	2.7	13	7.6	
H885838		0.3	7	0.7	1.4	26	3.1	
H885839		0.5	19	2.2	11.6	14	11.9	
H885840		0.3	13	1.6	0.7	<2	7.1	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098643

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

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Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE VA09098640

Project: RAU

P.O. No.:

This report is for 70 Rock samples submitted to our lab in Vancouver, BC, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885018		0.74	0.01	0.16	6.07	60.7	2830	0.90	0.23	0.33	0.54	167.5	62.5	304	3.96	186.5
H885019		0.58	0.01	1.03	7.26	40.6	3900	1.05	0.14	0.13	4.15	91.0	92.0	441	2.26	240
H885020		0.90	3.53	11.10	0.10	1150	100	<0.05	326	1.07	14.15	1.58	19.3	4	0.05	88.4
H885021		0.62	0.01	2.51	8.01	72.7	3980	1.47	2.73	0.15	3.48	76.3	70.0	313	6.05	143.0
H885022		0.68	0.12	3.54	0.08	327	70	<0.05	27.5	0.04	2.57	1.86	1.9	9	0.12	5.9
H885023		0.66	0.06	53.3	3.20	153.5	>10000	0.25	4.47	0.24	48.1	32.4	28.6	123	1.63	414
H885024		0.76	0.07	68.8	3.09	218	940	0.29	0.41	0.17	31.0	16.55	6.5	110	3.65	384
H885025		0.84	0.44	>100	0.33	1130	340	0.18	37.6	0.39	40.5	41.5	15.7	12	0.48	1660
H885026		0.80	2.04	>100	0.21	1460	110	<0.05	75.2	0.09	20.8	13.05	4.9	7	0.81	713
H885027		0.64	0.85	>100	0.19	2100	6200	0.11	2390	5.18	55.6	>500	29.4	7	0.17	232
H885028		0.80	0.23	65.4	0.14	6230	8630	0.78	115.0	1.40	73.6	71.3	138.0	14	0.10	1010
H885029		0.58	0.27	21.7	0.22	309	550	0.05	254	0.16	4.88	>500	3.3	8	0.36	63.0
H885030		0.90	0.46	32.6	0.29	961	4390	0.12	142.5	0.12	6.08	11.90	14.1	9	0.59	127.0
H885031		0.76	2.59	14.90	0.53	4490	380	0.19	387	0.34	23.7	47.1	25.1	41	0.10	17.2
H885032		0.78	0.02	4.33	5.63	287	4980	1.39	1.04	2.05	1.59	99.4	63.4	180	2.35	147.5
H885033		0.66	0.03	1.02	6.39	189.5	5760	1.56	1.06	0.37	0.64	58.6	35.4	73	2.00	161.0
H885034		0.58	0.01	0.47	6.66	126.0	5420	1.17	0.62	0.32	0.89	64.9	43.8	111	2.46	138.5
H885035		0.74	0.01	0.24	10.90	19.7	4240	2.31	1.29	0.43	0.09	67.5	27.7	674	10.65	52.1
H885036		0.74	0.32	40.1	0.14	836	150	0.12	2890	17.60	21.4	12.00	4.8	17	0.18	85.6
H885037		0.82	0.02	10.10	4.97	148.5	8400	1.16	18.65	0.85	17.00	63.2	88.4	194	2.08	846
H885038		0.96	0.07	1.06	0.16	525	80	0.06	205	30.3	2.61	4.55	5.1	4	0.06	4.3
H885039		0.66	0.46	4.15	0.06	2190	50	0.13	521	18.05	1.64	43.4	11.6	4	<0.05	7.5
H885040		0.48	0.24	3.11	0.12	2040	60	0.09	390	19.95	3.43	19.60	11.2	4	0.05	5.0
H885041		0.44	0.18	0.36	5.21	109.0	5150	1.15	6.86	0.53	0.34	58.6	45.7	236	0.95	84.5
H885042		0.46	0.86	30.7	0.32	1420	100	0.17	60.1	21.7	10.70	20.9	3.7	15	0.25	53.3
H885043		0.56	0.12	3.07	0.31	665	80	0.19	21.7	22.5	1.63	11.10	4.8	11	0.06	3.8
H885044		0.62	0.22	3.63	7.45	244	6000	1.13	3.13	0.38	7.22	50.6	100.0	321	1.84	244
H885045		0.60	0.10	0.65	2.11	65.1	1410	1.61	5.80	0.24	0.16	4.60	19.2	58	0.38	55.4
H885046		0.58	18.45	>100	0.15	3700	170	0.10	1415	0.22	9.45	5.62	33.4	8	<0.05	461
H885047		1.06	0.30	5.52	0.03	147	190	<0.05	>10000	19.05	0.60	40.1	2.7	6	<0.05	747
H885048		0.70	0.20	6.81	0.22	199.5	190	<0.05	>10000	8.10	1.61	20.7	2.2	7	<0.05	862
H885049		0.74	7.79	3.96	0.25	794	130	0.20	364	24.0	7.52	3.77	8.0	4	0.07	5.6
H885050		0.60	0.11	22.3	8.92	151.5	7880	1.13	489	0.28	24.7	71.1	20.3	143	3.49	109.5
H885051		0.72	4.36	16.70	0.20	4590	120	0.23	1300	2.66	17.50	35.8	45.6	30	<0.05	317
H885052		0.96	0.01	0.47	7.04	50.8	2260	1.48	106.0	4.88	3.08	92.9	85.7	103	2.29	232
H885053		0.54	1.63	11.75	0.42	3030	150	0.12	170.5	0.25	7.92	257	26.2	14	0.60	15.2
H885054		0.90	0.14	3.44	1.08	866	130	0.27	113.0	16.65	2.76	20.0	10.0	13	0.05	10.8
H885055		0.60	0.08	7.29	1.92	5420	1170	0.33	262	0.65	16.50	16.00	26.1	45	0.56	34.9
H885056		0.88	0.43	10.15	5.38	291	9190	0.88	26.0	0.39	31.0	92.5	93.8	375	1.69	222
H885057		0.48	1.57	>100	0.22	>10000	330	0.10	18.10	0.51	47.4	87.8	1.1	12	0.11	2630

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Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885018		20.8	20.6	0.38	2.1	0.12	0.092	2.49	105.5	6.6	0.49	227	7.14	0.12	4.9	240
H885019		17.05	30.6	0.35	2.2	0.08	0.155	3.65	45.2	13.0	0.79	585	7.35	0.09	5.6	407
H885020		>50	0.55	0.76	0.1	0.58	0.024	0.03	1.1	0.2	0.09	205	22.8	0.01	0.6	337
H885021		20.5	27.7	0.38	0.8	0.09	0.289	3.81	31.8	15.2	0.71	519	14.45	0.13	6.7	235
H885022		2.96	0.41	0.07	<0.1	0.02	0.006	0.03	1.0	0.5	0.01	127	0.76	0.01	0.2	11.6
H885023		35.6	8.15	0.49	1.1	0.61	0.275	1.39	16.2	5.4	0.32	760	47.8	0.15	2.5	127.5
H885024		27.7	10.90	0.25	1.1	2.53	0.089	1.29	7.9	5.0	0.24	192	25.9	0.05	1.6	44.6
H885025		22.6	3.66	0.81	0.4	1.08	0.139	0.08	25.5	3.4	0.08	1570	24.7	0.01	0.4	94.4
H885026		31.0	1.73	0.86	0.8	1.7	0.280	0.04	5.3	3.6	0.04	255	54.7	0.01	0.5	119.5
H885027		35.8	10.40	2.36	0.1	0.46	0.252	0.02	1300	1.4	1.00	10350	47.0	0.08	0.4	198.0
H885028		38.0	6.10	1.18	0.1	0.41	0.091	0.03	43.9	0.6	0.09	82300	181.0	0.10	0.4	252
H885029		5.02	4.96	0.50	0.1	0.11	0.020	0.02	670	1.3	0.12	420	6.76	0.03	0.2	32.9
H885030		14.15	1.55	0.16	0.1	0.09	0.087	0.08	6.7	5.8	0.06	908	7.37	<0.01	0.2	96.2
H885031		>50	3.78	0.80	1.7	0.28	0.011	0.09	30.7	0.8	0.22	576	31.0	0.03	1.5	211
H885032		23.4	16.45	0.37	4.1	0.28	0.070	2.34	62.3	9.4	0.52	293	37.7	0.02	7.2	364
H885033		19.45	18.35	0.32	4.0	0.18	0.113	2.36	29.5	11.4	0.49	84	19.60	0.01	15.4	285
H885034		16.50	17.95	0.29	4.1	0.12	0.091	2.72	36.4	10.1	0.46	120	14.75	0.03	13.2	217
H885035		6.85	33.3	0.23	2.3	0.09	0.126	5.22	27.6	19.4	0.86	116	0.51	0.32	16.6	170.5
H885036		12.00	1.19	0.34	0.1	0.20	<0.005	0.04	8.0	0.5	0.32	558	2.30	0.01	0.6	35.5
H885037		33.8	10.95	0.36	2.5	0.22	0.288	1.03	26.7	6.5	0.34	242	8.43	<0.01	2.2	677
H885038		9.23	0.79	0.13	0.2	0.04	0.010	0.02	2.6	<0.2	0.34	720	3.60	0.01	0.5	36.7
H885039		25.1	0.57	0.27	0.2	0.03	<0.005	0.01	27.6	<0.2	0.22	365	2.21	<0.01	0.4	59.6
H885040		23.2	0.75	0.27	0.1	0.06	0.016	0.03	12.4	0.2	0.24	415	1.35	0.01	0.5	57.2
H885041		7.34	8.65	0.14	1.9	0.02	0.020	2.14	28.5	7.5	0.40	121	6.06	<0.01	2.2	188.0
H885042		19.95	1.79	0.25	0.1	0.19	0.038	0.09	17.9	1.2	0.93	414	3.20	0.01	0.6	32.7
H885043		15.65	1.46	0.20	0.3	0.14	0.022	0.03	5.3	0.6	1.21	812	3.38	0.03	0.7	35.3
H885044		21.5	15.65	0.32	2.4	0.09	0.072	3.25	22.2	11.1	0.59	669	4.08	<0.01	3.4	471
H885045		4.04	5.27	0.06	0.4	0.01	0.007	0.53	1.8	5.6	0.20	59	2.81	<0.01	0.6	136.0
H885046		>50	1.14	0.63	0.2	0.45	<0.005	0.03	3.7	0.2	0.21	196	12.75	0.01	0.5	207
H885047		2.81	1.12	1.60	0.1	<1	<0.005	0.01	24.9	0.5	2.58	2420	<0.05	<0.01	0.3	9.2
H885048		1.75	2.14	1.74	0.1	<1	<0.005	0.01	12.4	2.0	0.11	1100	<0.05	0.02	0.2	9.5
H885049		13.35	1.23	0.15	0.1	0.09	0.023	0.07	2.1	0.6	0.34	764	13.30	0.01	0.2	86.4
H885050		14.45	14.25	0.27	6.0	0.55	0.057	4.22	31.6	21.4	0.74	227	5.28	0.09	7.1	86.9
H885051		45.3	2.36	0.79	4.7	0.70	0.105	0.03	20.9	0.7	0.18	427	9.35	0.02	3.6	281
H885052		15.05	12.30	0.34	3.7	0.10	0.070	1.79	53.9	5.5	0.35	165	12.85	0.08	8.4	380
H885053		>50	2.90	0.94	0.1	0.12	0.059	0.13	270	1.4	0.22	1070	2.28	0.01	1.2	142.0
H885054		18.25	7.53	0.24	1.1	0.10	0.016	0.06	9.2	0.9	0.43	375	8.29	0.11	3.2	72.2
H885055		41.5	4.76	0.52	0.7	0.27	0.113	0.58	9.3	2.5	0.17	292	22.5	0.02	1.7	99.6
H885056		31.1	16.35	0.47	4.3	0.22	0.072	2.12	39.0	8.2	0.41	225	11.25	0.05	3.3	635
H885057		34.9	2.34	0.55	0.3	0.39	0.899	0.03	64.0	3.3	0.06	160	11.60	0.01	0.4	17.8

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

Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885018		6470	22.4	41.1	<0.002	0.07	3.33	12.7	4	1.2	36.9	0.25	0.14	5.7	0.183	0.82
H885019		3000	32.5	54.4	<0.002	0.06	8.61	20.6	4	1.7	42.5	0.38	0.05	5.7	0.306	1.57
H885020		1040	967	1.1	<0.002	0.06	35.8	<0.1	8	1.4	2.0	<0.05	0.74	0.2	<0.005	0.30
H885021		2710	536	68.3	<0.002	0.05	4.80	27.5	2	2.2	11.7	0.41	0.07	4.0	0.249	1.10
H885022		230	272	0.9	<0.002	0.01	1.38	0.4	3	0.2	1.5	<0.05	0.05	0.2	<0.005	0.06
H885023		4390	>10000	24.6	<0.002	0.69	88.4	6.4	3	1.5	34.9	0.15	0.10	1.9	0.137	2.49
H885024		2970	>10000	35.5	<0.002	0.62	206	7.9	3	3.5	418	0.08	0.06	1.5	0.060	2.50
H885025		3240	>10000	3.1	<0.002	0.76	185.0	1.5	6	38.5	626	<0.05	0.14	0.7	0.008	0.40
H885026		2030	>10000	2.7	<0.002	2.22	167.5	0.1	22	15.1	197.5	<0.05	0.70	0.5	0.006	0.26
H885027		1930	>10000	1.0	<0.002	0.26	242	0.8	11	4.2	229	<0.05	1.53	<0.2	<0.005	5.17
H885028		8510	>10000	1.4	<0.002	0.09	1145	1.4	6	2.0	35.9	0.08	<0.05	1.1	<0.005	26.8
H885029		680	2400	1.1	<0.002	0.03	95.3	0.2	5	24.0	12.5	<0.05	0.23	11.1	<0.005	0.17
H885030		1160	7210	5.0	<0.002	0.27	36.5	2.1	4	1.4	48.2	<0.05	0.15	0.6	0.005	0.48
H885031		2540	499	4.2	0.004	0.04	63.6	1.1	8	1.2	6.8	0.06	0.40	1.2	0.038	1.55
H885032		6360	553	55.0	<0.002	0.28	33.2	12.5	7	1.3	91.3	0.45	0.35	8.4	0.160	1.85
H885033		4800	80.7	54.5	<0.002	0.08	17.60	7.8	5	1.7	134.0	1.11	0.23	15.3	0.139	1.36
H885034		4950	42.2	60.5	<0.002	0.25	11.05	9.9	5	1.4	199.5	0.97	0.15	12.7	0.145	1.64
H885035		1570	19.4	85.7	<0.002	1.37	1.63	33.9	2	3.0	143.0	1.06	0.07	8.5	0.541	2.01
H885036		1150	3520	2.8	<0.002	0.01	83.9	1.2	5	0.8	11.6	<0.05	1.70	0.4	0.007	0.26
H885037		>10000	810	23.5	<0.002	0.19	24.0	20.7	7	1.3	835	0.14	0.13	4.0	0.088	1.87
H885038		670	89.1	1.1	<0.002	0.02	13.05	0.4	3	0.2	10.1	<0.05	0.18	0.2	0.006	0.27
H885039		740	214	0.3	<0.002	0.08	25.6	0.6	5	0.4	6.8	<0.05	0.33	0.9	<0.005	0.18
H885040		780	259	1.5	<0.002	0.07	18.20	0.5	4	0.2	5.4	<0.05	0.18	0.4	0.005	0.46
H885041		770	20.1	64.1	<0.002	0.02	6.16	7.2	2	1.2	8.7	0.10	0.07	3.5	0.114	0.99
H885042		750	209	4.4	<0.002	0.04	32.8	1.2	5	0.5	9.3	<0.05	0.09	0.4	0.009	0.14
H885043		2620	49.8	1.2	<0.002	0.02	4.85	0.9	4	0.3	17.4	<0.05	0.11	1.3	0.016	0.11
H885044		3020	106.0	78.5	<0.002	0.05	13.95	25.6	3	1.8	9.1	0.16	0.05	4.5	0.180	2.06
H885045		400	7.1	23.3	<0.002	0.03	1.93	2.3	2	0.8	8.1	<0.05	<0.05	0.9	0.020	0.36
H885046		1430	2180	1.7	<0.002	0.06	150.5	0.9	11	1.2	4.0	<0.05	1.04	0.3	0.007	0.09
H885047		320	1990	2.7	<0.002	4.77	6150	2.3	436	17.6	27.2	<0.05	69.7	1.2	<0.005	<0.02
H885048		180	2230	1.6	0.011	5.15	9410	1.3	516	21.6	8.3	<0.05	88.2	1.8	0.005	<0.02
H885049		630	87.7	2.9	0.002	0.03	23.3	0.8	4	0.3	11.0	<0.05	0.22	<0.2	0.005	0.88
H885050		3260	2640	108.5	<0.002	0.14	54.1	28.0	5	2.1	45.4	0.40	0.46	7.4	0.251	4.31
H885051		>10000	3170	1.0	<0.002	0.03	142.0	0.4	9	12.7	29.9	0.12	1.42	3.2	0.072	0.20
H885052		>10000	147.0	33.5	0.006	0.07	8.90	15.2	8	0.8	394	0.50	0.12	4.7	0.215	1.33
H885053		1860	190.0	4.9	0.002	0.10	12.25	0.7	6	0.4	5.2	<0.05	0.14	0.5	0.014	0.49
H885054		6800	1670	2.6	0.002	0.01	26.0	2.4	4	1.0	18.2	0.18	0.16	3.5	0.055	0.12
H885055		1350	268	15.3	0.007	0.07	9.66	3.5	7	0.8	10.3	0.08	1.19	1.4	0.066	0.65
H885056		5140	440	69.5	0.002	0.06	13.60	20.0	4	1.6	16.9	0.18	0.09	6.3	0.143	1.58
H885057		2200	>10000	0.9	<0.002	2.12	71.5	1.7	5	23.5	22.4	<0.05	2.07	1.3	<0.005	0.31

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Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Zn-OG62	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.01
H885018		7.7	197	1.2	16.8	207	83.2				
H885019		13.5	264	0.9	30.3	456	82.2				
H885020		10.7	13	31.0	2.3	5730	3.7				
H885021		2.3	285	3.6	11.5	1180	25.9				
H885022		0.8	3	0.3	0.9	857	1.0				
H885023		5.5	123	1.4	8.9	>10000	39.2		2.48	1.010	
H885024		3.8	121	2.7	3.1	6600	36.8		1.600		
H885025		34.4	20	13.7	8.0	>10000	33.0	130	9.36	1.300	
H885026		47.8	10	2.7	6.5	>10000	52.1	241	10.60	1.125	
H885027		32.4	16	10.7	15.7	>10000	4.2	144	1.755	1.450	
H885028		48.9	25	13.1	27.7	>10000	12.8		7.78	2.71	
H885029		8.5	10	8.7	4.2	1870	1.2				
H885030		10.0	9	1.0	4.3	5170	5.2				
H885031		19.7	27	281	6.1	9200	71.1				
H885032		19.0	198	1.6	18.4	531	171.5				
H885033		13.7	107	1.0	39.6	189	168.0				
H885034		11.9	152	0.6	20.1	162	150.0				
H885035		2.4	381	0.3	8.7	142	94.2				
H885036		3.2	16	17.8	4.5	3170	5.8				
H885037		28.2	163	2.3	58.2	2710	85.4				
H885038		6.1	31	15.5	3.5	539	5.6				
H885039		11.8	46	4.2	2.5	235	5.8				
H885040		8.5	30	12.2	2.9	390	4.9				
H885041		7.3	90	1.9	9.5	101	59.6				
H885042		4.5	79	37.4	10.0	1410	3.7				
H885043		14.7	15	26.5	4.9	547	12.2				
H885044		13.3	194	11.5	21.1	1320	88.2				
H885045		6.8	45	3.3	3.5	37	12.7				
H885046		10.1	31	47.5	6.3	3080	9.2	120			
H885047		27.3	9	104.5	11.1	61	1.3				
H885048		22.6	13	2650	8.3	269	0.7				
H885049		6.0	12	53.7	4.2	2530	2.2				
H885050		8.5	275	8.2	19.6	5820	255				
H885051		28.9	23	79.6	19.9	5000	176.5				
H885052		75.9	152	2.0	80.6	597	139.5				
H885053		26.2	69	25.4	1.8	796	1.1				
H885054		10.4	59	40.6	11.3	4790	42.5				
H885055		23.6	70	750	15.0	3120	27.7				
H885056		16.3	190	18.8	26.4	5240	149.0				
H885057		16.6	50	38.2	7.5	4500	12.1	129	19.35		2.12

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Finalized Date: 29-SEP-2009
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CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885058		0.82	0.67	18.95	2.99	154.5	2080	0.82	22.8	0.21	25.1	50.4	37.6	310	2.47	451
H885059		0.76	0.05	0.97	9.46	259	2870	0.84	2.21	0.08	0.38	96.3	61.2	632	2.00	84.5
H885060		0.66	0.14	8.86	1.46	334	540	0.38	9.31	0.37	10.70	13.15	25.8	260	0.22	243
H885061		0.58	0.08	7.95	1.02	453	190	0.62	69.9	0.12	11.80	12.70	33.3	68	0.30	57.6
H885062		0.96	0.01	1.31	1.60	325	690	0.52	3.37	0.30	0.74	22.6	94.6	167	0.37	383
H885063		0.64	0.15	1.67	7.99	117.5	2520	1.13	2.01	0.13	0.36	107.5	49.6	523	2.60	88.6
H885064		0.50	0.33	5.15	1.39	682	800	0.46	107.5	10.20	13.95	26.3	67.8	96	0.36	68.9
H885065		0.68	0.08	1.04	0.05	82.5	120	0.56	>10000	3.51	0.25	5.70	8.4	10	<0.05	119.5
H885066		0.78	0.38	1.68	0.15	266	80	0.14	33.0	19.75	25.0	2.60	6.4	2	0.09	48.8
H885067		0.50	0.39	6.00	3.22	254	1200	1.30	112.5	3.77	36.9	64.5	105.5	235	0.64	1135
H885068		0.96	0.21	3.82	5.14	260	5710	1.00	4.10	0.33	8.83	37.1	103.5	161	0.69	318
H885069		0.78	0.10	34.9	0.46	1430	240	0.30	246	5.26	44.5	2.59	2.6	22	0.61	269
H885070		0.76	0.32	10.70	0.40	3250	130	0.24	339	0.29	11.30	7.47	25.4	26	0.22	140.5
H885071		0.80	0.27	12.80	0.03	26.7	20	0.08	>10000	0.13	0.47	0.89	0.8	14	0.13	45.1
H885072		0.68	3.13	7.47	0.78	4660	130	0.34	547	0.58	16.00	63.3	47.2	35	0.23	131.0
H885073		0.66	0.06	1.94	0.03	10.9	20	0.07	>10000	0.08	0.13	0.63	0.6	12	0.10	52.7
H885074		0.66	0.27	14.60	0.84	>10000	270	0.59	167.5	6.03	122.0	50.6	3.1	25	0.22	2020
H885075		0.86	0.17	1.27	0.07	2840	60	0.33	311	0.14	7.11	1.63	43.1	6	<0.05	100.0
H885076		1.36	0.24	3.10	0.48	7290	1060	0.79	26.4	0.59	29.9	12.15	35.6	22	0.10	89.9
H885077		0.62	0.04	1.44	9.97	225	5300	1.64	3.90	0.46	2.52	259	35.5	12	3.81	82.0
H885078		0.64	0.05	1.02	3.38	144.5	1900	1.26	3.19	0.16	7.66	14.75	51.1	73	1.41	115.5
H885079		0.68	0.03	3.17	2.00	130.0	820	0.55	3.73	0.18	2.48	16.35	55.5	63	0.73	125.5
H885080		0.68	0.03	>100	3.49	313	1560	1.87	7.58	0.94	11.55	28.9	65.6	54	1.47	342
H885081		0.66	0.06	3.63	2.64	148.0	1730	1.34	4.55	0.16	3.44	18.90	33.4	70	0.92	119.0
H885082		0.64	0.01	3.60	2.05	98.9	460	0.42	2.98	0.26	2.25	9.26	32.3	85	0.40	137.0
H885083		0.74	0.02	1.36	4.43	177.0	4780	1.79	7.92	0.12	3.10	22.1	67.4	55	1.98	93.0
H885084		0.58	3.06	77.7	0.14	>10000	410	<0.05	578	0.39	24.6	17.15	1.6	29	0.05	112.5
H885085		0.84	0.13	0.73	0.86	370	460	0.23	29.8	23.6	1.95	7.56	9.7	35	0.22	14.1
H885086		0.70	0.12	18.75	0.58	2770	310	0.15	28.1	1.36	28.5	102.5	8.1	27	0.73	70.6
H885087		1.24	0.07	18.10	0.59	2280	390	0.18	12.10	3.03	20.0	12.85	8.5	11	0.73	11.4

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885058		29.2	13.80	0.69	1.4	1.96	0.606	1.00	20.2	4.9	0.20	122	12.50	0.02	0.6	368
H885059		11.75	22.0	0.20	7.8	0.03	0.046	4.54	47.0	8.0	0.55	115	20.4	0.09	6.1	251
H885060		47.6	19.20	0.53	0.7	0.39	0.178	0.31	7.3	2.2	0.23	71	26.4	0.01	1.0	187.5
H885061		12.10	5.48	0.18	0.8	0.09	0.013	0.15	4.4	1.6	0.23	430	15.00	0.06	0.5	257
H885062		45.3	7.92	0.53	0.6	0.05	0.065	0.38	10.4	1.2	0.22	284	87.4	0.02	1.2	516
H885063		13.70	25.8	0.28	4.8	0.06	0.067	3.89	56.6	11.6	0.61	220	20.2	0.07	6.9	237
H885064		31.9	6.11	0.35	1.2	0.23	0.456	0.50	12.6	1.9	0.42	3560	22.8	0.02	1.7	443
H885065		2.05	1.12	0.38	0.1	<1	<0.005	0.01	2.3	2.4	0.89	816	0.46	0.01	0.9	56.6
H885066		23.3	0.78	0.31	<0.1	0.24	0.013	0.05	1.9	0.2	0.18	275	62.4	0.02	0.4	86.9
H885067		39.0	11.70	0.69	1.5	0.33	0.205	0.69	26.3	1.5	0.27	811	40.9	0.04	1.6	845
H885068		30.9	9.23	0.33	1.3	0.25	0.037	1.67	14.3	3.6	0.36	506	55.2	0.03	1.0	748
H885069		16.35	2.67	0.32	0.4	0.66	0.160	0.07	5.0	14.6	0.11	225	160.5	<0.01	0.7	56.9
H885070		41.8	1.67	0.73	0.1	0.28	0.035	0.05	3.3	1.2	0.14	569	32.0	<0.01	0.6	181.0
H885071		0.90	0.20	0.18	<0.1	<0.1	<0.005	0.01	0.5	0.6	0.01	53	0.85	<0.01	0.1	7.3
H885072		49.4	2.75	0.41	0.1	0.30	0.079	0.06	39.1	1.2	0.20	1360	19.85	0.01	0.7	293
H885073		0.50	0.19	0.23	<0.1	<0.1	0.015	0.01	<0.5	0.6	0.02	68	0.24	<0.01	0.1	3.3
H885074		44.2	7.54	0.68	0.5	0.32	2.44	0.06	35.3	1.3	0.25	534	21.9	0.01	1.1	57.3
H885075		>50	1.12	0.61	<0.1	0.25	0.014	0.01	1.4	0.2	0.16	165	7.77	<0.01	0.3	237
H885076		>50	3.08	0.79	0.1	0.66	1.305	0.15	7.6	0.4	0.13	859	21.0	0.01	0.7	142.5
H885077		19.50	25.1	0.46	5.3	0.24	0.075	4.16	136.0	12.1	0.68	321	8.58	0.15	13.6	73.4
H885078		46.5	18.70	0.84	0.8	0.08	0.142	0.93	9.0	4.5	0.39	901	12.15	0.02	1.7	149.5
H885079		>50	16.05	0.82	0.4	0.09	0.146	0.54	8.0	3.1	0.32	749	18.95	0.01	1.7	160.5
H885080		38.7	13.05	0.69	0.8	0.29	1.265	0.95	15.7	5.4	0.34	2420	11.45	0.02	1.3	150.5
H885081		43.5	14.45	0.67	0.9	0.08	0.181	0.64	9.8	3.4	0.31	627	10.85	0.01	2.0	113.5
H885082		47.2	19.95	0.51	0.3	0.11	0.206	0.27	4.5	2.0	0.34	575	11.35	0.01	0.8	106.0
H885083		39.2	15.75	0.51	1.5	0.07	0.067	1.42	10.2	9.6	0.43	1390	18.70	<0.01	2.2	166.5
H885084		>50	3.22	0.75	0.1	0.63	1.395	0.01	14.2	0.3	0.12	33	6.15	0.01	0.4	12.5
H885085		10.05	2.02	0.11	0.3	<0.1	0.016	0.36	4.5	1.8	4.51	424	1.15	0.01	0.8	68.1
H885086		>50	2.60	0.66	0.2	0.23	0.153	0.21	74.7	1.9	0.19	1480	2.79	<0.01	1.4	76.9
H885087		48.6	1.91	0.47	0.2	0.09	0.124	0.24	8.1	2.0	0.27	1100	1.95	<0.01	2.2	55.8

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885058		5040	8360	47.6	0.002	0.22	27.8	19.0	3	7.3	43.1	<0.05	<0.05	5.3	0.038	1.13
H885059		2050	254	92.2	0.002	0.19	37.8	37.6	7	1.7	49.3	0.38	0.05	7.2	0.281	3.27
H885060		10000	65.3	8.7	0.002	0.10	11.55	4.9	3	0.6	15.8	0.05	0.08	2.5	0.030	0.44
H885061		1490	616	6.2	0.002	0.03	4.72	7.1	4	1.3	8.4	<0.05	0.12	1.4	0.023	0.30
H885062		8310	37.2	11.1	0.004	0.29	30.6	9.3	6	0.3	40.8	0.07	0.09	4.7	0.027	1.87
H885063		2300	53.7	80.4	0.002	0.08	18.15	24.3	6	1.7	31.5	0.48	0.05	7.3	0.298	2.31
H885064		2520	1300	16.8	0.002	0.09	20.6	6.9	3	1.3	10.3	0.08	0.17	2.5	0.042	1.20
H885065		90	388	8.4	<0.002	0.56	705	2.1	40	4.3	26.1	<0.05	16.30	0.6	<0.005	<0.02
H885066		590	4070	2.2	0.002	0.05	14.40	0.7	5	0.2	4.4	<0.05	0.10	<0.2	<0.005	0.18
H885067		6850	1920	21.9	0.002	0.12	29.7	19.0	5	0.8	27.1	0.08	0.10	5.1	0.045	0.94
H885068		4740	1470	38.3	<0.002	0.09	13.80	15.5	4	0.8	13.8	0.05	0.07	3.3	0.076	1.13
H885069		2790	>10000	5.0	0.004	0.75	202	1.0	48	6.2	9.2	<0.05	0.76	1.5	0.014	0.94
H885070		2370	4510	1.8	<0.002	0.04	17.65	1.9	10	0.5	4.6	<0.05	0.24	1.7	0.008	0.74
H885071		50	605	0.4	<0.002	0.16	350	0.2	32	1.3	1.3	<0.05	13.45	<0.2	<0.005	0.03
H885072		3370	4230	2.4	0.002	0.06	42.6	8.3	14	1.0	5.8	0.07	0.24	2.6	0.008	0.94
H885073		40	190.5	0.3	<0.002	0.29	384	0.2	34	1.3	3.5	<0.05	11.95	<0.2	<0.005	0.03
H885074		7050	>10000	3.7	0.002	0.07	84.2	5.7	6	33.3	11.0	0.08	4.98	3.0	0.017	1.02
H885075		860	255	0.2	<0.002	0.03	39.9	0.3	16	<0.2	1.7	<0.05	0.26	<0.2	<0.005	0.04
H885076		940	789	5.0	<0.002	0.04	32.0	1.9	6	1.3	3.8	<0.05	1.11	0.2	0.011	0.58
H885077		4990	248	74.9	<0.002	0.03	20.5	11.3	3	3.1	59.2	0.81	0.10	17.4	0.257	2.09
H885078		1750	128.5	36.4	<0.002	0.06	10.30	4.9	4	1.1	4.4	0.09	0.08	6.4	0.051	0.62
H885079		1990	296	20.7	<0.002	0.07	10.40	2.6	6	0.7	4.8	0.08	0.10	6.6	0.046	0.44
H885080		2140	1940	38.6	<0.002	0.07	187.5	6.8	4	3.8	25.0	0.07	0.10	8.9	0.053	4.00
H885081		2250	122.5	25.5	<0.002	0.06	5.58	7.4	4	0.6	4.2	0.11	0.09	8.8	0.076	0.38
H885082		2230	255	10.0	<0.002	0.08	7.34	2.5	5	0.9	3.9	0.05	0.07	9.0	0.025	0.34
H885083		1360	123.0	50.8	<0.002	0.07	7.35	7.9	6	1.0	6.4	0.15	0.13	8.7	0.122	1.25
H885084		900	1450	1.0	<0.002	0.07	71.1	0.7	4	13.2	9.4	<0.05	1.65	0.4	<0.005	0.17
H885085		750	29.1	11.5	<0.002	0.01	5.37	2.4	2	0.5	24.0	<0.05	0.07	0.5	0.027	0.30
H885086		1950	2640	9.4	<0.002	0.07	22.0	2.4	3	6.5	4.1	0.08	0.08	1.3	0.043	0.63
H885087		1230	1585	9.6	<0.002	0.05	9.97	1.4	2	0.6	6.4	0.12	0.05	0.7	0.061	0.48

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09098640

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	As-OG62 As % 0.01
H885058		14.1	163	13.4	16.1	4740	47.4				
H885059		10.6	528	1.1	12.4	91	326				
H885060		7.0	343	39.1	5.1	825	60.3				
H885061		10.7	44	10.2	9.6	3170	31.2				
H885062		34.3	117	1.7	13.1	338	25.3				
H885063		7.3	307	2.6	14.1	76	180.0				
H885064		14.2	112	116.0	16.1	5050	51.8				
H885065		1.4	5	217	7.5	107	2.9				
H885066		13.9	31	27.8	2.3	5120	1.6				
H885067		51.1	267	44.1	34.6	9600	78.7				
H885068		16.4	165	19.8	27.8	3980	50.3				
H885069		8.2	85	63.4	6.4	5890	15.1		2.70		
H885070		16.2	23	16.2	6.8	2520	8.1				
H885071		1.3	2	8.8	0.8	121	<0.5				
H885072		28.0	48	56.5	18.6	3440	8.5				
H885073		0.6	1	0.6	0.4	22	<0.5				
H885074		38.3	151	124.0	35.0	>10000	20.8		1.475	1.065	1.23
H885075		4.8	111	104.0	2.2	2050	0.7				
H885076		11.7	162	14.5	7.4	5970	3.1				
H885077		7.2	261	2.8	28.5	2710	251				
H885078		12.3	156	3.1	13.9	2920	28.7				
H885079		10.6	153	3.6	8.2	1840	16.1				
H885080		17.2	97	3.2	19.3	2930	34.5	112			
H885081		10.9	118	1.9	9.3	1600	38.5				
H885082		17.2	134	2.5	5.7	1240	11.0				
H885083		27.9	88	3.6	12.2	992	48.9				
H885084		4.6	16	67.3	2.1	1600	5.7				1.31
H885085		3.8	37	3.4	4.1	99	9.9				
H885086		11.9	45	52.1	14.2	>10000	6.5			1.090	
H885087		11.8	47	23.7	6.8	>10000	7.0			1.400	

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Finalized Date: 29-SEP-2009
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CERTIFICATE OF ANALYSIS VA09098640

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE VA09097200

Project: RAU

P.O. No.: Batch 43

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 8-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09097200

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885661		0.82	0.42	7.97	0.17	>10000	2670	0.07	434	0.59	2.36	25.1	2.5	22	0.14	12.1
H885662		0.52	0.47	15.65	0.28	>10000	2030	<0.05	797	0.46	2.11	12.10	3.0	10	0.14	15.8
H885663		3.04	0.51	5.93	0.38	>10000	3480	<0.05	812	0.46	2.12	16.00	3.4	17	0.28	12.9
H885664		4.70	2.75	2.07	0.38	>10000	3980	0.08	755	0.80	2.51	7.30	1.7	13	0.34	9.1
H885665		7.28	1.26	1.04	0.24	>10000	3170	0.06	459	1.01	5.41	4.31	1.5	10	0.21	8.0
H885666		4.12	<0.01	0.02	0.08	127	40	0.12	1.98	20.1	0.07	2.89	0.9	2	0.18	1.6
H885667		7.58	2.15	1.65	0.98	>10000	3800	0.36	429	1.06	6.67	25.2	5.3	27	1.10	29.4
H885668		6.40	1.50	3.82	1.65	>10000	2410	0.67	544	0.53	12.15	31.1	11.1	40	3.89	26.3
H885669		5.14	0.12	1.67	1.95	>10000	1280	0.58	75.1	0.68	13.40	42.4	8.1	29	6.54	26.5
H885670		7.56	0.17	0.86	1.47	>10000	960	0.43	262	1.26	8.18	31.2	4.4	31	4.04	27.0
H885671		0.28	5.76	0.25	0.12	>10000	30	0.06	484	9.20	0.07	36.2	1.8	14	0.76	40.5
H885672		4.02	1.98	0.50	0.33	>10000	150	<0.05	3030	0.54	0.86	31.7	3.1	3	0.24	<0.2
H885673		3.76	<0.01	0.01	0.09	106	20	0.09	1.21	20.3	0.07	1.68	1.0	2	0.18	1.3
H885674		2.52	0.12	0.15	0.10	2040	140	<0.05	676	19.55	0.14	20.8	2.6	1	0.19	<0.2
H885675		7.52	0.14	0.20	0.12	1020	80	<0.05	35.1	20.7	1.14	13.45	0.8	1	0.28	11.7
H885676		6.20	0.06	0.21	0.08	1680	60	0.08	18.90	19.00	1.61	9.82	0.9	1	0.27	38.8
H885677		11.16	0.03	0.42	0.07	1100	50	0.08	13.95	18.20	2.01	10.20	0.8	1	0.32	3.9
H885678		3.08	0.30	1.48	0.10	2890	280	0.11	270	2.10	8.52	30.5	2.5	<1	0.17	12.3
H885679		3.22	0.08	0.90	0.11	944	20	0.08	235	12.50	2.71	8.17	1.2	1	0.28	3.9
H885680		6.16	0.02	0.16	0.10	357	30	0.15	20.3	18.40	1.37	5.85	1.3	2	0.20	2.1
H885681		2.52	0.18	2.25	0.17	4410	70	<0.05	1275	11.05	3.10	10.15	2.6	1	0.15	<0.2
H885682		10.24	0.13	0.43	0.14	870	20	0.10	39.3	16.30	0.28	9.88	0.9	2	0.41	1.7
H885683		5.12	0.11	0.51	0.15	1100	20	0.07	43.4	17.45	0.35	11.85	0.9	2	0.49	1.7
H885684		6.64	0.07	0.40	0.13	793	50	<0.05	64.6	14.25	0.79	11.30	1.2	1	0.39	3.4
H885685		8.62	0.05	0.76	0.35	659	50	0.18	75.4	15.90	1.10	9.95	2.2	5	0.86	10.3
H885686		5.46	0.03	0.95	0.16	518	30	0.10	54.2	17.00	0.98	8.67	1.9	2	0.26	3.9
H885687		5.48	0.04	0.22	0.11	455	30	0.07	23.4	20.5	0.45	8.56	1.0	2	0.19	2.4
H885688		11.66	0.02	0.31	0.16	381	20	0.11	32.2	17.80	1.84	6.71	0.9	3	0.32	3.7
H885689		11.24	0.02	0.26	0.12	222	10	0.12	52.2	18.15	1.67	6.88	1.3	1	0.38	7.9
H885690		11.66	0.52	0.42	0.20	472	10	0.08	256	15.95	1.97	9.36	5.5	3	0.54	10.1
H885691		4.86	<0.01	0.04	0.01	6.6	40	0.07	1.07	1.73	0.06	1.56	2.0	4	0.05	7.6
H885692		4.20	<0.01	0.09	6.56	7	660	0.41	1.43	12.70	0.09	23.9	46.4	178	14.35	110.0
H885693		5.20	<0.01	0.08	7.35	2.7	540	0.57	0.50	7.64	0.03	26.9	45.1	207	30.2	44.8
H885694		0.28	0.51	0.89	0.84	6110	120	0.29	105.5	12.85	0.14	36.0	6.0	15	2.12	33.1
H885695		5.02	0.01	0.05	7.78	7.7	1010	0.73	0.77	6.50	0.04	27.8	34.1	225	24.3	39.1
H885696		5.10	<0.01	0.02	0.86	<5	200	0.13	0.41	33.0	0.04	5.57	8.1	22	0.78	8.9

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09097200

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885661		>50	0.82	0.70	<0.1	0.06	0.065	0.04	15.1	0.4	0.13	188	7.58	0.01	0.8	10.5
H885662		>50	1.29	0.55	0.1	0.03	0.102	0.06	6.5	0.7	0.13	236	10.45	0.02	1.1	17.9
H885663		>50	1.97	0.76	0.3	0.02	0.222	0.11	6.8	1.1	0.15	873	4.69	0.02	1.0	16.5
H885664		>50	2.90	0.76	0.1	0.04	0.149	0.21	4.1	2.0	0.10	560	5.23	0.02	0.9	9.5
H885665		>50	2.14	0.72	0.3	0.02	0.174	0.09	1.8	0.5	0.08	882	4.35	0.01	1.0	5.3
H885666		0.66	0.26	<0.05	<0.1	<0.01	0.007	0.03	1.4	1.3	13.20	196	0.17	0.01	0.4	0.4
H885667		47.0	4.34	0.62	0.3	0.02	0.259	0.36	15.1	1.8	0.22	1520	3.49	0.02	3.2	23.5
H885668		45.1	6.87	0.65	0.8	0.03	0.241	0.65	16.2	4.5	0.24	2660	3.37	0.02	4.7	49.8
H885669		46.4	7.00	0.73	0.5	0.03	0.211	0.70	24.8	4.0	0.24	4270	2.65	0.02	3.1	32.9
H885670		46.5	6.55	0.66	0.3	0.02	0.477	0.57	16.7	3.5	0.16	3690	1.51	0.02	2.6	19.4
H885671		24.4	1.10	0.36	<0.1	0.03	0.098	0.07	23.4	1.3	5.01	1460	10.55	0.01	1.6	13.1
H885672		>50	2.99	0.42	0.2	0.01	0.207	0.08	12.3	1.0	0.21	6040	1.08	0.02	0.8	10.2
H885673		0.53	0.29	<0.05	<0.1	<0.01	0.005	0.04	0.8	1.4	13.15	203	0.14	0.01	0.4	1.3
H885674		13.75	1.18	<0.05	<0.1	<0.01	0.084	0.03	9.0	1.0	5.08	8140	0.59	0.01	0.5	6.3
H885675		6.19	0.91	0.10	0.1	<0.01	0.130	0.04	5.8	1.7	8.91	6850	0.27	0.02	0.4	2.3
H885676		5.60	0.68	0.09	<0.1	<0.1	0.119	0.02	4.1	2.2	10.70	4330	0.12	0.01	0.3	1.0
H885677		5.70	0.66	0.10	<0.1	<0.01	0.146	0.02	4.2	2.3	10.55	4690	0.17	0.01	0.4	0.6
H885678		>50	1.27	0.77	<0.1	0.01	0.254	0.05	17.2	0.6	0.89	7330	0.37	0.01	0.9	8.9
H885679		16.60	1.11	0.24	<0.1	<0.1	0.100	0.04	3.1	1.3	7.26	4110	0.12	0.01	0.5	2.9
H885680		4.87	0.67	0.08	<0.1	<0.01	0.059	0.01	3.4	2.1	11.75	2290	0.07	0.02	0.3	2.8
H885681		34.6	1.74	0.17	<0.1	<0.1	0.111	0.02	5.1	1.4	6.57	3450	0.15	0.02	0.6	7.4
H885682		9.57	1.12	0.15	<0.1	<0.01	0.114	0.05	4.1	1.9	9.45	4370	0.05	0.01	0.6	1.5
H885683		9.22	1.22	0.16	<0.1	<0.01	0.122	0.06	5.1	2.1	10.10	4460	0.06	0.01	0.7	1.1
H885684		11.70	1.11	0.16	0.1	<0.01	0.104	0.02	4.7	1.6	9.11	5570	0.06	0.01	0.4	3.3
H885685		10.95	2.55	0.16	0.1	<0.01	0.131	0.11	4.0	2.4	9.56	4630	0.11	0.02	1.2	6.5
H885686		11.75	1.37	0.17	<0.1	<0.01	0.178	0.04	3.4	1.9	9.59	5230	0.06	0.01	0.7	3.6
H885687		9.65	1.02	0.16	<0.1	<0.01	0.103	0.04	3.3	2.3	11.55	5350	0.05	0.01	0.5	1.0
H885688		7.72	1.29	0.13	<0.1	<0.01	0.106	0.04	2.7	2.4	10.15	3970	0.05	0.01	0.8	1.6
H885689		5.84	1.07	0.11	<0.1	<0.01	0.121	0.02	2.9	2.3	10.50	3980	0.11	0.02	0.5	2.7
H885690		10.85	1.61	0.18	<0.1	0.01	0.122	0.04	3.6	1.8	9.10	4480	0.08	0.02	0.7	10.3
H885691		0.26	0.48	0.05	<0.1	<0.01	<0.005	0.02	0.9	1.2	0.06	140	0.31	<0.01	0.4	2.9
H885692		6.24	16.10	0.14	0.8	<0.01	0.053	2.39	11.9	39.6	3.21	849	0.30	1.30	13.1	177.0
H885693		8.13	18.55	0.18	0.5	<0.01	0.086	3.13	13.5	60.2	5.20	808	0.17	0.81	14.7	196.5
H885694		15.20	3.82	0.27	0.1	<0.01	0.078	0.42	20.8	4.4	7.17	2080	15.80	0.03	4.2	22.1
H885695		7.82	20.1	0.18	0.9	<0.1	0.070	4.69	14.1	69.0	3.99	683	0.16	0.64	15.9	167.5
H885696		0.73	2.07	<0.05	0.1	<0.01	0.011	0.44	2.8	3.5	0.39	280	0.52	0.10	2.2	15.2

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Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09097200

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885661		750	304	1.9	<0.002	0.10	13.55	0.6	3	0.8	16.3	<0.05	1.08	0.4	0.008	0.05
H885662		400	589	3.0	0.002	0.11	23.6	0.9	3	2.1	13.9	<0.05	1.23	0.4	0.017	0.04
H885663		540	577	4.8	<0.002	0.16	39.1	2.8	9	2.1	20.2	<0.05	1.30	0.7	0.023	0.07
H885664		350	160.5	10.9	0.003	0.29	72.5	0.9	6	1.8	46.9	<0.05	0.53	0.5	0.018	0.15
H885665		300	81.0	5.0	<0.002	0.12	43.1	0.9	4	0.8	26.8	<0.05	0.72	0.3	0.027	0.15
H885666		250	1.9	1.7	<0.002	0.01	0.24	0.5	2	0.3	52.3	<0.05	0.09	<0.2	<0.005	<0.02
H885667		390	213	17.9	0.003	0.17	44.0	3.1	3	2.6	26.8	0.14	0.73	1.3	0.076	0.41
H885668		530	219	38.2	0.006	0.13	51.7	5.0	<1	4.5	22.1	0.25	0.54	1.7	0.102	0.67
H885669		700	82.4	36.6	<0.002	0.16	23.1	4.8	3	1.8	50.3	0.15	0.48	1.8	0.093	0.57
H885670		610	54.5	26.8	0.003	0.19	18.75	5.3	4	2.1	125.5	0.11	0.97	2.5	0.078	0.60
H885671		80	6.5	8.9	0.004	>10.0	24.2	0.5	9	2.4	62.2	0.06	1.46	0.3	0.009	0.17
H885672		400	15.6	6.2	0.010	0.12	33.1	0.5	10	2.5	18.5	<0.05	2.48	0.3	0.016	0.28
H885673		280	2.5	1.7	<0.002	0.02	0.14	0.4	2	0.2	53.2	<0.05	0.05	<0.2	<0.005	<0.02
H885674		150	10.2	2.6	<0.002	0.04	10.70	<0.1	<1	1.1	53.7	<0.05	0.24	<0.2	0.008	0.02
H885675		120	53.2	2.7	<0.002	0.05	2.42	0.6	2	0.5	108.5	<0.05	0.09	<0.2	0.008	0.06
H885676		110	72.2	2.3	0.002	0.04	2.74	0.6	2	0.6	107.0	<0.05	0.13	<0.2	0.006	0.06
H885677		80	78.5	2.2	0.002	0.05	1.30	0.9	2	0.5	130.0	<0.05	0.14	<0.2	0.006	0.04
H885678		130	107.0	3.6	0.003	0.09	6.03	1.0	7	0.9	19.2	<0.05	0.30	0.2	<0.005	0.22
H885679		90	83.1	4.7	<0.002	0.97	5.34	1.2	4	0.9	86.7	<0.05	0.24	<0.2	0.008	0.05
H885680		80	33.8	1.6	<0.002	0.19	1.18	0.6	2	0.4	52.0	<0.05	0.09	<0.2	0.007	0.03
H885681		110	114.0	2.1	<0.002	1.59	11.85	<0.1	4	0.8	53.0	<0.05	0.86	<0.2	0.012	0.05
H885682		90	22.2	6.3	<0.002	5.31	1.13	0.7	3	0.8	118.0	<0.05	0.18	<0.2	0.014	0.07
H885683		90	21.6	7.0	<0.002	4.75	1.20	0.7	3	1.0	126.5	<0.05	0.18	<0.2	0.015	0.08
H885684		70	33.2	2.6	<0.002	5.48	1.83	0.7	4	0.4	86.3	<0.05	0.14	<0.2	0.010	0.06
H885685		140	31.6	12.7	<0.002	1.90	3.11	1.5	2	3.2	99.4	<0.05	0.16	<0.2	0.030	0.10
H885686		100	22.6	4.0	<0.002	3.04	1.61	0.9	3	1.8	120.5	<0.05	0.14	<0.2	0.014	0.05
H885687		70	10.9	3.7	0.002	3.04	0.89	0.8	3	0.6	152.5	<0.05	0.10	<0.2	0.008	0.04
H885688		90	80.3	4.8	<0.002	4.72	1.25	0.7	3	1.6	113.0	<0.05	0.10	<0.2	0.016	0.04
H885689		80	73.1	2.2	0.002	2.87	1.93	0.9	2	0.8	108.0	<0.05	0.10	<0.2	0.009	0.11
H885690		100	81.8	6.5	0.003	>10.0	3.50	1.2	2	2.3	104.0	<0.05	0.33	<0.2	0.016	0.11
H885691		<10	1.3	0.8	<0.002	0.02	0.34	0.5	2	0.2	115.5	<0.05	0.06	0.2	0.010	0.08
H885692		640	3.5	58.2	<0.002	1.32	0.13	20.7	1	0.9	188.5	0.70	<0.05	1.5	0.715	0.45
H885693		760	2.3	144.5	<0.002	0.03	0.45	23.0	1	2.1	114.5	0.80	<0.05	1.7	0.804	1.80
H885694		250	14.9	34.7	0.016	>10.0	4.68	2.0	6	3.5	92.6	0.21	0.24	0.7	0.108	0.30
H885695		780	2.0	105.0	<0.002	0.06	0.13	24.8	1	1.7	112.5	0.84	<0.05	1.8	0.864	0.56
H885696		50	1.2	11.2	0.002	0.56	0.06	2.9	2	1.4	252	0.09	0.05	0.5	0.113	0.04

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CERTIFICATE OF ANALYSIS VA09097200

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885661		2.8	6	24.1	4.4	616	3.6	1.12
H885662		2.9	6	24.3	5.4	1060	10.7	1.48
H885663		2.2	17	205	15.8	1100	13.5	1.64
H885664		2.4	10	49.5	3.8	588	9.8	2.90
H885665		2.5	16	10.4	3.7	613	15.9	3.61
H885666		0.7	1	0.2	1.1	17	0.5	
H885667		3.3	28	221	13.4	1780	17.0	3.24
H885668		3.0	50	213	33.7	4140	49.0	2.03
H885669		3.3	34	52.6	46.9	3300	23.0	2.71
H885670		4.1	32	232	22.8	1440	18.3	4.46
H885671		0.6	5	34.6	4.9	10	5.1	4.20
H885672		4.4	17	820	35.5	688	12.2	1.77
H885673		0.6	1	0.6	1.2	16	0.6	
H885674		1.2	7	25.4	29.5	102	3.1	
H885675		0.7	4	70.0	12.3	353	3.5	
H885676		0.5	3	93.7	8.6	384	2.7	
H885677		0.3	4	77.9	9.6	342	2.6	
H885678		1.4	8	319	17.7	1260	3.9	
H885679		0.4	5	3.4	10.7	460	3.4	
H885680		0.3	5	6.3	5.7	200	2.3	
H885681		0.7	5	137.0	11.1	657	7.1	
H885682		0.3	4	82.5	8.7	85	4.2	
H885683		0.3	4	64.2	9.4	87	3.9	
H885684		0.5	7	118.5	11.4	285	3.9	
H885685		0.6	9	23.9	17.7	359	10.5	
H885686		0.4	4	51.8	9.4	199	5.1	
H885687		0.3	2	116.0	8.0	82	3.2	
H885688		0.3	3	75.7	6.2	349	5.6	
H885689		0.6	3	99.7	7.3	303	4.0	
H885690		0.5	5	273	11.4	402	6.4	
H885691		0.5	<1	1.2	1.0	81	2.0	
H885692		0.6	156	1.6	16.3	86	36.9	
H885693		0.5	175	1.0	19.1	125	24.3	
H885694		0.5	17	64.2	7.9	30	11.3	
H885695		0.6	158	0.9	19.3	108	41.9	
H885696		0.8	10	0.3	3.4	2	8.9	

***** See Appendix Page for comments regarding this certificate *****

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ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: RAU

Finalized Date: 27-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09097200

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 17-SEP-2009
Account: RCM

CERTIFICATE VA09094231

Project: RAU

P.O. No.: Batch 44

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 28-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 17-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094231

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885697		4.60	<0.01	<0.01	1.43	8	340	0.24	0.72	25.6	<0.02	11.75	4.7	42	3.33	7.7
H885698		5.52	<0.01	<0.01	1.24	<5	220	0.38	0.20	26.4	<0.02	21.7	6.1	52	3.92	61.3
H885699		5.20	<0.01	<0.01	1.93	<5	220	0.50	0.23	21.4	0.03	26.6	9.4	107	8.44	67.4
H885700		5.12	<0.01	<0.01	2.45	<5	210	0.71	0.39	23.7	0.02	26.8	8.6	84	10.50	45.6
H885701		5.22	<0.01	0.01	2.39	5	380	0.39	0.61	23.4	<0.02	21.6	6.3	92	3.06	33.9
H885702		5.10	<0.01	0.01	0.73	6	170	0.15	0.32	31.3	0.03	7.76	2.3	27	1.23	42.0
H885703		3.00	<0.01	0.06	0.28	17	80	0.13	0.76	29.7	0.41	5.10	1.7	8	0.95	9.9
H885704		4.82	0.07	0.18	1.71	1320	20	0.47	190.0	13.40	0.12	10.05	5.7	21	5.62	21.9
H885705		7.24	<0.01	0.10	0.08	62	20	<0.05	21.3	15.95	0.57	9.70	1.7	2	0.48	8.3
H885706		11.50	<0.01	0.15	0.03	72	<10	<0.05	4.38	12.85	0.48	10.00	1.3	4	0.43	14.1
H885707		11.26	<0.01	0.13	0.10	104	10	<0.05	17.75	17.50	0.49	15.40	1.7	1	0.48	5.4
H885708		3.84	<0.01	0.01	0.07	<5	<10	<0.05	0.28	19.75	0.06	1.40	1.1	2	0.18	2.1
H885709		11.88	0.01	0.08	0.31	72	<10	0.13	39.7	18.15	0.36	10.85	1.8	2	0.70	6.5
H885710		4.18	<0.01	1.41	0.72	85	<10	0.26	145.5	17.55	0.66	10.30	5.5	8	0.77	7.5
H885711		0.28	1.51	1.75	0.11	>10000	10	0.08	348	12.85	0.84	63.8	1.9	5	0.69	19.2
H885712		7.38	0.01	0.81	1.19	193	10	0.22	481	16.55	1.62	12.20	6.8	17	1.02	16.9
H885713		11.46	<0.01	0.23	0.15	228	<10	<0.05	18.95	19.10	0.67	6.35	1.1	4	0.53	8.5
H885714		12.80	0.02	0.44	1.81	1220	10	0.75	181.5	15.45	1.05	12.25	11.2	34	8.98	21.0
H885715		6.50	0.03	0.06	1.33	233	40	0.64	15.15	17.25	0.04	10.30	7.0	31	11.00	4.6
H885716		9.14	0.04	0.80	0.49	361	260	0.17	38.9	16.50	3.02	11.30	4.3	10	1.25	6.5
H885717		7.46	0.02	0.23	0.50	28	70	0.16	3.63	19.75	0.96	8.33	2.1	10	0.58	3.3
H885718		11.74	0.01	0.02	0.30	26	70	0.21	2.81	19.15	0.11	7.48	1.4	6	0.41	2.4
H885719		10.04	0.01	0.15	0.25	13	90	0.27	1.62	19.30	0.71	6.90	1.5	5	0.41	6.4
H885720		7.00	<0.01	0.03	0.48	10	180	0.31	1.53	19.95	0.05	8.17	1.7	8	1.04	4.5
H885721		7.42	<0.01	0.04	0.73	<5	180	0.46	1.45	19.80	0.04	8.73	2.3	13	1.69	24.8
H885722		4.40	<0.01	0.08	6.60	120	950	1.71	1.52	10.15	0.04	104.0	15.7	59	15.20	27.1
H885723		2.98	0.01	<0.01	7.78	49	1150	1.55	3.32	10.75	<0.02	127.0	22.3	49	33.5	23.7
H885724		5.10	<0.01	<0.01	10.70	91.3	1850	1.98	0.63	7.16	0.02	131.0	18.4	82	12.95	25.5
H885725		2.44	<0.01	<0.01	10.90	68.0	1870	2.19	0.66	7.36	0.02	140.0	17.5	75	13.75	26.9
H885726		5.02	<0.01	<0.01	7.20	59	1350	1.27	2.37	17.40	0.04	136.5	19.4	45	8.85	6.6
H885727		5.06	<0.01	<0.01	6.28	29	1290	1.24	1.57	16.30	0.03	82.9	25.3	39	13.50	20.8
H885728		0.28	0.41	0.91	0.80	5330	100	0.26	104.0	12.15	0.16	34.5	5.9	14	2.03	37.7
H885729		3.14	0.01	0.01	5.78	96	1400	1.13	2.01	13.70	0.15	79.1	44.9	37	12.45	24.8
H885730		3.78	<0.01	<0.01	0.09	<5	20	<0.05	0.09	19.75	0.05	1.54	1.3	2	0.18	2.2
H885731		2.64	0.03	0.40	4.17	300	210	1.03	6.49	9.89	0.28	60.5	32.9	58	9.20	134.5
H885732		5.00	0.01	0.16	0.34	464	20	0.20	3.20	17.70	0.32	6.80	6.5	26	0.95	8.9

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 17-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094231

Sample Description	Method Analyte Units LOR	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
H885697		1.39	3.32	<0.05	0.4	<0.01	0.013	0.88	6.7	14.8	1.29	171	0.61	0.02	4.7	22.2
H885698		1.75	3.16	<0.05	0.3	<0.01	0.039	0.66	12.6	12.2	0.88	511	0.44	0.11	7.9	16.8
H885699		2.40	4.57	0.06	0.3	<0.01	0.032	1.15	14.3	21.2	1.21	506	0.46	0.17	8.8	31.5
H885700		2.19	5.68	0.05	0.5	<0.01	0.043	1.27	14.3	27.4	1.61	587	0.69	0.24	11.9	33.3
H885701		2.49	5.50	0.06	0.6	<0.01	0.025	1.42	12.1	19.1	1.12	227	1.15	0.14	9.9	28.3
H885702		0.91	1.75	<0.05	0.2	<0.01	0.059	0.39	4.7	4.8	0.64	233	1.17	0.02	2.9	11.1
H885703		0.64	0.73	<0.05	0.1	<0.01	0.095	0.11	3.8	0.9	0.90	345	1.83	0.01	1.4	3.1
H885704		10.70	12.15	0.16	1.2	<0.01	0.041	0.46	4.1	4.3	7.84	3100	0.23	0.09	5.8	19.6
H885705		4.32	0.68	0.07	0.1	<0.01	0.053	0.02	3.4	1.6	9.40	4060	0.10	0.02	0.3	2.5
H885706		2.98	0.34	<0.05	<0.1	<0.01	0.046	0.01	3.5	1.7	7.12	2940	0.12	0.01	<0.1	2.4
H885707		4.55	0.81	<0.05	0.1	<0.1	0.060	0.02	7.4	2.2	10.60	4320	0.10	0.02	0.3	0.9
H885708		0.40	0.34	0.11	<0.1	<0.01	<0.005	0.03	0.7	1.3	13.05	194	0.14	0.01	0.3	0.8
H885709		4.43	2.29	<0.05	0.2	<0.1	0.065	0.03	4.3	3.1	10.95	4590	0.11	0.04	1.2	2.2
H885710		4.33	4.96	<0.05	0.5	<0.01	0.096	0.03	4.0	3.1	10.65	4750	0.11	0.08	3.0	8.4
H885711		17.30	1.09	0.28	0.1	<0.1	0.118	0.07	41.5	2.0	7.12	2280	6.28	0.01	0.6	7.1
H885712		4.38	7.56	<0.05	1.0	<0.1	0.153	0.07	5.0	3.0	9.52	4560	0.68	0.11	3.6	14.7
H885713		1.38	0.95	<0.05	0.1	<0.1	0.085	0.03	3.3	2.8	12.30	2520	0.12	0.02	0.7	1.8
H885714		7.59	12.00	<0.05	1.2	<0.01	0.218	0.73	4.8	8.0	9.22	3790	0.57	0.06	3.7	25.9
H885715		5.30	7.58	<0.05	0.8	<0.1	0.019	0.98	5.6	5.7	10.10	2370	0.09	0.02	4.3	15.4
H885716		8.24	3.72	<0.05	0.3	<0.1	0.105	0.26	4.2	3.0	9.33	5500	0.12	0.01	1.3	9.3
H885717		2.20	2.42	<0.05	0.3	<0.01	0.023	0.23	6.0	2.7	11.20	1600	0.11	0.01	2.4	4.0
H885718		1.66	1.37	<0.05	0.2	<0.01	0.012	0.12	5.8	2.6	11.10	1280	0.12	0.01	1.4	2.2
H885719		1.10	1.11	<0.05	0.2	<0.01	0.008	0.10	5.7	3.3	11.80	846	0.34	0.01	1.2	2.0
H885720		1.02	1.84	<0.05	0.2	<0.01	0.010	0.26	6.7	5.1	11.35	580	0.25	0.01	2.4	3.7
H885721		1.33	3.10	<0.05	0.4	<0.01	0.015	0.33	6.7	5.9	11.60	734	0.13	0.02	3.8	3.3
H885722		7.33	15.20	0.16	2.4	<0.01	0.050	3.08	55.2	18.7	4.29	1190	0.52	0.08	25.0	52.4
H885723		2.70	16.60	0.21	5.4	<0.01	0.030	3.95	62.6	33.2	5.57	417	0.15	0.08	38.7	55.7
H885724		1.36	23.3	0.34	1.4	<0.01	0.066	4.55	58.4	19.8	2.12	254	0.28	0.08	69.3	61.2
H885725		1.33	24.3	0.39	1.5	<0.01	0.070	4.58	61.4	20.8	2.15	262	0.23	0.08	76.4	60.5
H885726		2.04	17.20	0.24	1.6	<0.01	0.033	3.24	72.2	11.2	1.75	507	0.13	0.14	39.4	45.3
H885727		2.20	16.15	0.16	1.2	<0.01	0.034	2.74	42.3	14.5	3.83	482	0.12	0.09	30.5	57.9
H885728		15.00	3.66	0.25	0.2	<0.1	0.079	0.41	19.8	4.5	6.87	2000	16.80	0.02	3.1	24.5
H885729		2.20	18.05	0.10	1.3	0.01	0.068	2.70	39.2	15.5	7.09	550	0.20	0.11	25.2	80.8
H885730		0.43	0.40	0.15	<0.1	<0.01	<0.005	0.03	0.7	1.4	13.00	194	0.09	0.01	0.4	<0.2
H885731		5.28	13.50	0.15	2.6	<0.1	0.156	1.94	30.3	11.1	5.40	264	21.2	0.09	14.3	192.5
H885732		1.02	2.02	<0.05	0.2	0.02	0.019	0.10	4.1	5.5	11.35	253	58.6	0.03	1.3	188.0

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Project: RAU

Finalized Date: 17-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094231

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885697		80	1.3	28.6	<0.002	1.24	0.14	3.8	2	2.4	507	0.30	<0.05	1.2	0.142	0.29
H885698		270	1.3	38.3	<0.002	0.73	<0.05	5.2	2	6.1	346	0.50	<0.05	1.1	0.202	0.28
H885699		290	1.7	62.2	<0.002	0.70	<0.05	7.8	2	4.1	254	0.60	<0.05	1.5	0.284	0.48
H885700		420	2.0	77.3	<0.002	0.51	0.05	7.7	2	3.3	333	0.74	<0.05	1.6	0.307	0.52
H885701		120	1.6	35.4	<0.002	1.33	0.06	6.3	2	1.4	449	0.66	<0.05	1.7	0.282	0.16
H885702		10	1.6	14.1	<0.002	0.60	0.14	2.2	2	4.2	322	0.17	<0.05	0.5	0.083	0.11
H885703		20	23.9	9.8	<0.002	0.37	0.82	0.8	2	3.7	188.5	0.09	<0.05	0.3	0.031	0.14
H885704		490	6.7	87.8	<0.002	>10.0	3.31	2.7	2	4.4	83.3	0.40	0.25	0.6	0.197	0.66
H885705		30	19.0	1.5	0.002	2.20	0.84	1.5	2	0.4	97.2	<0.05	0.05	<0.2	0.008	0.10
H885706		30	18.0	1.2	0.004	1.09	0.49	1.9	2	0.3	74.9	<0.05	<0.05	<0.2	<0.005	0.06
H885707		70	21.0	1.3	0.003	2.05	0.70	0.9	2	0.4	107.5	<0.05	<0.05	<0.2	0.007	0.05
H885708		240	1.5	1.4	<0.002	<0.01	<0.05	0.4	1	<0.2	49.7	<0.05	<0.05	<0.2	<0.005	<0.02
H885709		120	11.9	3.3	0.003	1.66	1.21	1.4	2	1.1	117.0	0.07	0.05	0.2	0.030	0.09
H885710		500	66.5	3.5	<0.002	2.43	2.47	2.8	2	2.4	114.5	0.16	0.19	0.2	0.086	0.07
H885711		120	15.7	7.7	0.007	>10.0	23.0	0.6	4	1.2	93.3	<0.05	0.94	0.5	0.010	0.09
H885712		700	95.7	10.4	0.006	2.08	7.33	3.4	2	3.8	104.0	0.21	0.63	0.7	0.121	0.36
H885713		90	30.5	3.7	<0.002	0.31	0.74	1.3	2	1.4	71.5	<0.05	0.06	<0.2	0.019	0.08
H885714		700	55.3	122.0	0.004	5.95	3.73	3.9	2	4.3	92.9	0.19	0.42	1.8	0.148	0.73
H885715		540	2.7	136.0	<0.002	4.64	0.66	3.0	1	1.7	87.0	0.24	0.11	0.7	0.146	0.89
H885716		210	98.5	20.8	0.002	6.46	1.35	3.0	2	2.1	123.0	0.07	0.08	0.2	0.039	0.19
H885717		190	33.6	14.1	<0.002	1.25	0.71	1.4	2	0.9	83.6	0.13	0.06	0.5	0.066	0.17
H885718		120	3.2	6.5	<0.002	0.94	0.67	1.1	2	0.5	73.3	0.08	<0.05	0.3	0.037	0.12
H885719		120	28.8	8.1	<0.002	0.57	0.42	1.1	2	0.4	67.6	0.07	<0.05	0.2	0.033	0.09
H885720		150	2.4	18.7	<0.002	0.76	0.28	1.5	2	0.5	91.7	0.13	<0.05	0.4	0.067	0.14
H885721		220	3.5	30.8	<0.002	0.59	0.46	2.0	2	0.9	86.9	0.21	<0.05	0.6	0.109	0.26
H885722		3130	6.1	149.5	0.003	3.77	1.78	14.8	1	5.4	184.0	1.42	0.27	4.8	0.779	1.78
H885723		1990	1.4	238	<0.002	1.45	0.24	17.5	1	4.4	233	2.28	0.12	5.9	1.245	2.64
H885724		2100	1.2	110.5	<0.002	0.54	0.34	17.8	1	6.5	293	4.14	<0.05	4.7	2.28	1.55
H885725		1700	1.2	120.0	0.002	0.55	0.38	19.3	1	6.7	299	4.50	0.05	5.0	2.39	1.63
H885726		1170	1.9	197.0	<0.002	1.97	0.55	15.1	1	6.8	262	2.23	0.09	4.7	1.260	0.92
H885727		1270	1.2	146.0	<0.002	2.07	0.78	12.5	1	2.7	268	1.77	0.06	3.8	0.993	1.06
H885728		240	14.9	32.2	0.016	>10.0	4.45	1.8	7	3.0	88.4	0.17	0.22	0.8	0.077	0.28
H885729		2670	1.5	113.0	<0.002	2.25	1.82	12.3	2	2.4	215	1.50	<0.05	3.5	0.845	1.10
H885730		230	1.3	1.6	<0.002	0.01	0.05	0.5	2	<0.2	49.9	<0.05	<0.05	<0.2	0.006	<0.02
H885731		3890	4.8	92.3	0.189	6.04	8.83	9.9	11	3.6	122.5	0.85	0.43	3.3	0.477	1.16
H885732		2550	3.4	15.2	0.403	1.29	2.20	1.4	5	0.4	77.2	0.08	0.22	0.6	0.030	0.28

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 17-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094231

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H885697		0.4	16	0.3	4.7	6	16.6	
H885698		0.3	29	0.5	8.9	6	12.3	
H885699		0.2	43	0.6	7.8	15	10.7	
H885700		0.4	46	0.9	9.6	22	18.9	
H885701		0.5	24	0.4	7.5	10	21.0	
H885702		0.7	7	0.4	3.3	5	9.3	
H885703		0.9	7	0.7	2.7	97	5.5	
H885704		1.8	31	65.9	10.9	57	48.4	
H885705		0.4	5	66.8	12.7	159	2.9	
H885706		0.3	4	1140	13.7	153	0.7	
H885707		0.3	5	199.5	9.3	124	3.1	
H885708		0.7	3	2.0	0.9	14	<0.5	
H885709		4.0	10	94.7	10.6	107	8.5	
H885710		1.1	23	3.4	12.7	174	19.7	
H885711		0.7	6	181.0	7.3	132	3.0	2.59
H885712		4.3	35	107.5	14.2	475	39.1	
H885713		0.4	7	1.7	6.7	153	5.0	
H885714		5.5	47	38.5	14.8	208	50.9	
H885715		1.1	36	3.4	7.9	20	33.6	
H885716		0.6	16	216	15.5	599	12.0	
H885717		0.4	14	2.8	6.1	223	11.9	
H885718		0.3	7	2.1	5.9	42	8.3	
H885719		0.2	8	1.3	6.0	122	6.3	
H885720		0.3	11	1.3	6.2	7	10.1	
H885721		0.5	17	1.9	6.7	20	16.8	
H885722		3.1	204	4.6	25.2	11	102.0	
H885723		7.0	191	3.5	21.8	13	243	
H885724		0.7	281	4.2	13.0	6	54.3	
H885725		0.8	291	4.4	13.5	6	59.2	
H885726		1.3	172	5.2	19.5	5	65.1	
H885727		0.9	146	1.8	16.3	12	47.1	
H885728		0.5	17	62.8	7.5	34	8.9	
H885729		1.4	132	1.2	15.9	48	52.4	
H885730		0.9	4	0.2	0.9	12	0.8	
H885731		14.1	253	1.7	19.9	76	109.5	
H885732		13.4	140	3.9	8.7	87	10.2	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 17-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094231

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 18-SEP-2009
Account: RCM

CERTIFICATE VA09094230

Project: RAU

P.O. No.:

This report is for 31 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
EXTRA-01	Extra Sample received in Shipment
CRU-QC	Crushing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 18-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094230

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
B375661		0.24		1.00	1.43	<0.2	20	4.56	56.6	8.29	0.09	2.24	1.9	28	0.80	117.0
B375662		0.32		0.14	0.52	0.7	10	9.56	7.04	4.88	0.07	2.13	5.1	26	1.45	90.4
B375663		0.22		0.02	0.53	7	10	9.02	1.44	13.20	0.12	2.17	3.1	29	0.14	23.7
B375664		0.14		1.44	0.11	4.9	10	0.90	2.30	0.47	3.04	1.68	25.1	10	1.60	170.0
B375665		0.12		0.10	0.54	<5	10	11.10	50.5	12.15	0.07	5.45	2.7	6	0.33	3.8
B375666		0.10		0.03	0.63	<5	60	5.38	0.80	10.25	0.11	4.69	2.0	34	7.17	2.9
B375667		0.22		0.05	0.94	<5	10	15.50	0.63	11.20	<0.02	10.75	2.8	92	5.54	3.4
B375668		0.22		0.05	0.92	<5	50	14.90	0.26	12.90	0.23	13.90	44.5	78	3.75	1820
B375669		0.70		0.02	0.52	<5	20	6.70	0.09	13.20	0.11	2.25	2.3	12	0.47	15.2
B375670		0.34		0.04	0.60	<5	20	13.95	1.24	13.45	0.16	2.45	2.7	3	1.18	7.4
B375671		0.24		0.26	1.01	<5	20	176.0	2.50	12.55	<0.02	6.04	20.2	6	0.20	292
B375672		0.36		0.16	1.21	<5	80	0.82	0.26	13.90	0.05	5.12	1.3	37	0.55	16.1
B375673		0.34		0.23	8.69	0.7	140	118.0	1.53	5.85	0.16	83.7	6.0	1	19.35	72.1
B375674		0.42		<0.01	9.88	1.0	170	60.8	0.11	2.55	0.07	30.6	0.6	3	6.79	3.7
B375675		0.52		<0.01	6.54	0.9	20	6.85	19.20	0.30	<0.02	17.85	0.3	4	7.13	3.0
B375676		0.24		0.01	0.77	<0.2	2300	0.54	0.22	6.42	0.43	3.54	1.2	20	0.61	10.0
B375677		0.10		<0.01	6.37	0.3	20	7.64	0.73	0.26	0.03	4.40	0.7	5	13.50	3.7
B375678		0.18		<0.01	6.72	1.5	330	7.93	0.32	0.14	0.02	3.18	0.5	9	5.17	3.7
B375651		0.74	<0.01	0.06	8.71	<0.2	2070	29.4	1.21	5.56	<0.02	63.2	7.2	98	25.8	194.5
B375652		0.52	<0.01	0.31	1.16	<5	50	97.9	0.99	13.30	0.15	73.2	19.6	11	0.66	787
B375653		0.78	<0.01	0.01	1.18	<5	270	0.56	0.05	26.4	0.04	10.15	2.6	11	3.01	8.5
B375654		1.62	<0.01	0.45	1.63	<5	60	75.2	2.46	11.75	0.04	57.6	20.8	14	0.85	1005
B375655		0.54	0.45	0.07	4.88	7	200	2.11	0.56	17.90	<0.02	42.8	9.8	40	13.55	26.5
B375656		0.98	<0.01	<0.01	5.63	<5	110	80.1	4.47	13.15	<0.02	83.4	5.6	23	4.13	51.3
B375657		1.20	0.02	0.52	3.02	<5	70	228	12.00	10.75	0.19	22.9	20.8	16	1.56	963
B375658		0.58	<0.01	0.04	2.99	<5	450	2.63	0.19	23.7	0.03	28.4	5.1	24	18.15	23.8
B375659		2.48	0.17	0.79	1.75	<0.2	70	106.0	139.0	9.42	<0.02	13.40	7.4	12	0.64	676
B375660		3.38	<0.01	<0.01	7.79	<0.2	360	8.00	2.67	0.63	<0.02	17.70	0.3	6	8.26	10.2
H237990		0.52	0.17	0.90	5.82	191.5	2660	1.68	5.82	0.19	1.65	21.8	140.0	157	0.66	363
H237991		0.46	0.15	2.44	3.51	564	960	1.27	7.58	0.31	2.13	113.0	191.5	218	1.16	728
B375679		0.12		0.45	6.72	9.1	30	6.70	0.42	0.31	0.06	6.31	3.4	9	17.30	12.1

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 18-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094230

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
B375661		8.24	9.32	0.19	0.6	0.318	0.15	1.6	14.0	11.90	917	4.41	0.27	2.8	44.5	630
B375662		5.67	6.52	0.13	0.5	0.460	0.16	1.3	9.0	4.82	1690	25.7	0.11	2.7	162.5	330
B375663		5.35	7.66	0.12	0.4	0.563	0.10	1.7	9.5	9.13	3190	0.80	0.14	1.8	45.1	390
B375664		10.20	1.26	0.29	<0.1	0.077	0.04	1.3	6.6	0.13	274	30.1	0.01	0.3	866	70
B375665		5.31	7.90	0.12	0.2	0.635	0.12	5.1	6.4	8.33	3220	1.45	0.14	1.5	42.3	280
B375666		3.51	6.72	0.09	0.7	0.515	0.26	2.7	20.5	4.05	2220	4.78	0.02	5.9	23.9	620
B375667		6.13	11.90	0.16	2.4	0.622	0.42	6.1	27.0	7.61	3850	1.75	0.18	44.5	39.8	900
B375668		9.82	9.64	0.22	1.6	0.605	0.28	6.2	19.5	7.51	4150	4.36	0.14	16.7	181.0	660
B375669		3.88	8.19	0.09	0.3	0.523	0.07	1.5	14.1	10.45	3050	1.04	0.13	1.3	26.8	230
B375670		4.79	8.68	0.11	0.1	0.721	0.14	2.1	8.1	9.66	3230	0.14	0.14	0.5	30.8	140
B375671		17.40	24.5	0.31	0.4	5.78	0.21	2.5	6.7	3.18	7030	1.61	0.21	21.9	5.4	60
B375672		1.63	6.44	0.07	0.3	0.061	0.04	2.5	28.3	9.11	944	1.19	0.08	2.7	10.6	350
B375673		3.54	78.5	0.12	4.7	0.154	2.51	29.5	39.8	0.71	432	0.40	3.60	133.0	0.9	110
B375674		0.54	63.9	0.07	3.5	0.059	2.80	11.3	23.7	0.26	356	0.15	4.14	79.5	0.7	60
B375675		0.47	38.7	0.07	2.8	0.077	3.08	6.6	12.4	0.02	790	0.45	3.59	117.5	1.2	20
B375676		1.01	2.97	0.05	0.4	0.071	0.63	1.5	7.0	4.24	917	0.27	0.10	1.9	3.5	190
B375677		0.70	29.3	0.07	3.9	0.051	3.17	2.0	15.7	0.05	339	0.64	2.97	137.0	1.5	10
B375678		0.41	29.3	0.07	3.3	0.025	3.17	1.3	7.6	0.04	94	0.49	1.34	101.0	1.2	20
B375651		5.17	33.4	0.19	1.3	0.092	4.34	31.5	91.5	1.80	764	3.10	1.10	14.0	32.8	110
B375652		17.05	15.60	0.29	0.5	3.17	0.20	39.0	5.7	3.23	7940	4.96	0.26	30.9	10.8	70
B375653		0.56	3.01	0.05	0.2	0.012	0.67	5.1	11.5	6.91	150	0.18	0.05	2.0	6.5	190
B375654		19.50	15.50	0.27	0.6	2.23	0.24	28.2	7.1	2.84	5900	7.50	0.36	40.4	24.6	90
B375655		2.48	13.05	0.09	0.8	0.024	2.83	22.8	54.1	6.44	355	0.34	0.14	8.2	25.2	120
B375656		5.94	29.3	0.13	0.8	1.105	0.47	41.8	15.3	2.08	3150	9.28	1.80	40.5	14.3	120
B375657		15.90	18.45	0.27	0.6	1.880	0.26	10.5	14.4	1.48	4590	4.29	0.57	48.0	19.8	420
B375658		1.65	8.86	0.12	0.5	0.034	2.42	14.4	55.4	5.94	425	0.25	0.14	4.4	20.3	110
B375659		24.5	26.5	0.38	0.6	5.28	0.34	5.4	7.8	0.93	6540	2.83	0.36	50.2	3.7	100
B375660		0.53	43.9	0.09	3.7	0.066	5.39	5.9	7.6	0.09	90	0.45	2.08	50.2	1.2	20
H237990		28.6	6.71	0.39	1.2	0.018	1.19	9.8	3.7	0.26	214	14.45	0.03	1.1	691	770
H237991		39.5	12.10	0.70	1.4	0.137	1.28	58.2	7.6	0.46	642	5.37	0.02	3.3	757	3400
B375679		1.42	31.4	0.08	1.2	0.063	4.26	2.8	46.3	0.01	397	0.53	2.54	112.5	15.4	60

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Project: RAU

Finalized Date: 18-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094230

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
B375661		1.2	10.6	<0.002	0.10	0.58	2.7	11	9.8	5.0	0.16	2.08	0.7	0.069	0.18	2.7
B375662		0.7	19.4	0.015	0.01	0.39	2.0	3	7.9	4.3	0.16	0.11	0.7	0.046	0.18	3.5
B375663		1.8	1.7	<0.002	<0.01	0.12	4.0	2	7.1	10.1	0.11	0.05	0.3	0.031	0.03	1.0
B375664		476	6.6	<0.002	0.06	1.49	0.3	22	4.2	2.1	<0.05	0.12	<0.2	<0.005	0.45	7.8
B375665		8.2	5.5	0.008	<0.01	0.11	0.9	2	6.8	9.5	0.10	2.12	1.1	0.022	0.16	3.9
B375666		11.7	40.6	0.002	0.01	0.24	3.6	2	7.3	43.8	0.44	0.06	1.3	0.092	0.39	2.0
B375667		0.9	83.4	0.006	<0.01	0.16	8.6	2	13.2	19.6	2.31	<0.05	19.0	0.611	0.68	4.1
B375668		1.7	49.0	<0.002	0.01	0.37	12.1	6	9.0	25.3	1.01	<0.05	0.6	0.234	0.54	14.3
B375669		1.7	4.5	0.002	<0.01	0.11	1.3	2	8.1	6.4	0.08	<0.05	0.8	0.029	0.03	2.8
B375670		2.9	15.3	<0.002	<0.01	0.15	0.6	2	7.4	8.4	<0.05	0.07	0.3	0.012	0.11	1.2
B375671		4.3	3.5	0.009	3.83	0.26	1.3	2	47.2	10.7	0.51	0.24	1.7	0.040	0.21	0.9
B375672		5.9	5.9	<0.002	0.08	0.60	3.7	3	2.8	41.2	0.16	<0.05	2.0	0.060	0.03	1.0
B375673		7.9	296	<0.002	0.15	0.34	42.2	1	11.8	138.5	82.1	0.09	21.4	<0.005	2.34	7.1
B375674		3.7	316	<0.002	0.01	0.35	7.9	1	12.5	86.1	85.6	<0.05	14.2	<0.005	1.52	6.4
B375675		78.1	810	<0.002	<0.01	0.18	6.2	1	6.4	3.1	48.7	<0.05	12.8	<0.005	4.42	9.2
B375676		1.6	56.6	<0.002	<0.01	0.16	1.6	2	3.3	13.4	0.24	<0.05	1.0	0.036	0.24	0.7
B375677		72.8	580	<0.002	<0.01	0.26	2.5	1	7.5	4.2	14.05	<0.05	22.6	0.005	3.62	28.9
B375678		46.7	311	<0.002	<0.01	0.19	1.3	1	21.0	24.0	14.00	<0.05	13.6	<0.005	2.69	16.3
B375651		5.7	470	<0.002	0.50	0.07	14.0	2	21.5	192.0	1.25	<0.05	10.2	0.438	3.61	1.6
B375652		6.3	10.2	0.021	2.28	0.25	2.3	4	28.7	19.2	4.10	0.12	2.9	0.053	0.59	1.8
B375653		1.2	26.4	<0.002	0.09	<0.05	2.0	2	0.6	289	0.17	<0.05	1.6	0.057	0.16	1.8
B375654		3.9	17.5	0.033	2.63	0.21	2.6	6	25.5	29.9	9.85	0.31	6.3	0.074	0.63	1.7
B375655		2.0	189.5	<0.002	1.00	<0.05	8.5	2	7.5	194.5	0.65	<0.05	6.9	0.248	1.40	1.2
B375656		9.0	69.4	0.036	0.24	0.14	12.9	2	21.3	155.5	13.65	0.11	15.4	0.121	1.03	1.9
B375657		10.6	20.4	0.020	4.74	0.60	5.8	5	19.4	72.0	1.45	0.61	1.9	0.110	0.54	1.3
B375658		1.6	128.0	<0.002	0.06	0.05	6.3	3	2.5	224	0.32	<0.05	3.7	0.145	1.03	1.2
B375659		10.1	19.0	0.005	1.19	0.32	5.8	3	48.3	24.7	2.40	4.32	2.2	0.082	0.23	1.1
B375660		41.6	1280	<0.002	0.02	0.10	5.4	2	2.9	54.4	57.3	0.10	13.2	<0.005	4.46	2.4
H237990		91.5	37.4	<0.002	0.06	20.7	16.5	6	0.8	5.1	0.28	0.07	1.1	0.052	1.21	37.9
H237991		86.5	29.4	<0.002	0.18	24.8	23.6	3	1.2	9.9	0.27	<0.05	6.1	0.094	0.95	11.8
B375679		93.2	770	<0.002	<0.01	0.66	4.8	2	11.4	6.9	17.65	<0.05	15.6	0.013	4.51	21.6

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

Project: RAU

Finalized Date: 18-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094230

Sample Description	Method / Analyte / Units / LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
B375661		138	59.0	15.4	88	20.0	0.096
B375662		94	112.0	9.1	93	22.0	0.004
B375663		146	1.8	15.1	176	13.7	0.001
B375664		20	3.5	8.0	2400	1.9	0.004
B375665		61	710	11.1	197	7.6	0.127
B375666		146	10.0	15.9	82	28.4	0.003
B375667		307	26.6	72.4	139	91.7	0.002
B375668		202	6.1	103.0	165	60.1	0.001
B375669		98	2.7	11.7	164	13.1	0.001
B375670		54	16.3	12.1	167	2.1	0.001
B375671		8	850	28.6	205	13.5	0.016
B375672		73	5.2	11.3	74	10.4	0.003
B375673		6	130.5	32.9	51	25.3	0.005
B375674		2	10.1	7.9	17	23.9	0.001
B375675		1	4.3	24.0	24	26.9	0.001
B375676		49	2.3	6.3	103	16.2	0.001
B375677		1	7.7	16.3	36	52.3	0.002
B375678		1	5.0	15.5	11	41.9	0.002
B375651		91	111.5	12.9	52	43.7	
B375652		13	2250	24.8	309	11.4	
B375653		14	9.8	3.8	12	7.9	
B375654		16	3110	27.8	240	11.4	
B375655		44	19.2	14.6	37	25.2	
B375656		27	3970	35.1	135	13.7	
B375657		30	1860	31.1	199	14.9	
B375658		29	15.5	11.9	27	17.5	
B375659		16	1800	35.2	208	16.3	
B375660		<1	22.6	9.9	3	18.4	
H237990		101	3.2	17.3	340	41.9	
H237991		134	11.9	30.6	211	54.7	
B375679		3	8.4	20.7	52	15.3	0.005

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1016-510 W HASTINGS ST
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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 18-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09094230

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

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Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE VA09090674

Project: RAU

P.O. No.: Batch 40

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 24-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090674

Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885553	0.28	5.55	0.26	0.13	>10000	50	0.25	481	9.12	0.13	34.9	1.7	13	0.70	40.3
H885554	2.04	<0.01	0.19	7.73	35	1230	1.49	0.52	13.20	0.04	54.1	45.8	224	6.71	50.6
H885555	1.58	0.01	0.17	4.56	15	810	0.89	0.28	21.1	0.06	41.7	52.6	125	3.02	47.7
H885556	2.22	<0.01	0.20	7.86	10	1430	1.63	0.02	10.80	0.11	56.2	62.1	218	5.57	59.7
H885557	1.30	<0.01	0.11	1.91	5	350	0.50	<0.01	25.2	0.34	17.70	23.4	58	1.17	33.7
H885558	3.04	<0.01	0.04	0.40	<5	80	0.14	<0.01	31.2	0.20	5.24	2.7	14	0.20	2.0
H885559	5.06	0.01	0.05	0.16	15	50	0.06	<0.01	34.2	0.02	4.71	2.1	12	0.06	0.8
H885560	3.48	<0.01	0.08	1.29	6	150	0.46	<0.01	30.2	0.02	20.5	3.1	15	0.63	3.2
H885561	4.00	<0.01	0.06	0.75	8	110	0.24	<0.01	32.3	0.09	11.40	2.1	8	0.29	2.4
H885562	4.42	<0.01	0.10	0.89	16	170	0.26	<0.01	31.0	0.07	23.9	13.8	22	0.41	3.2
H885563	2.28	<0.01	0.21	1.06	27	260	0.36	0.40	24.9	0.24	46.9	93.1	704	0.92	203
H885564	4.70	<0.01	0.18	8.58	3.5	1330	1.89	<0.01	9.20	0.07	56.9	48.7	293	2.30	100.5
H885565	4.02	<0.01	0.16	0.11	<5	20	0.12	0.02	19.45	0.06	1.89	1.0	2	0.24	1.2
H885566	2.04	<0.01	0.25	7.37	<5	1730	2.04	<0.01	11.00	0.10	57.9	63.6	219	1.09	81.4
H885567	4.04	<0.01	0.02	5.97	5	150	1.06	0.02	13.15	0.10	49.4	32.3	192	0.24	49.5
H885568	2.64	<0.01	0.03	5.96	<5	180	1.32	0.01	12.25	0.10	53.7	58.3	188	0.30	56.1
H885569	1.56	<0.01	0.08	7.77	53.5	1740	2.49	<0.01	0.34	0.07	114.0	77.5	346	2.30	78.6
H885570	1.02	<0.01	0.17	8.33	44.1	2320	1.96	<0.01	0.31	0.04	142.5	30.6	226	4.24	48.5
H885571	1.92	<0.01	0.15	9.14	17.0	2520	1.93	<0.01	0.27	<0.02	103.0	14.6	51	4.20	14.7
H885572	1.30	<0.01	0.17	9.57	21.4	3310	1.94	<0.01	0.20	<0.02	87.0	10.9	53	4.96	10.8
H885573	2.42	<0.01	0.18	9.24	22.1	3490	1.85	0.03	0.06	<0.02	57.7	1.1	52	4.74	5.2
H885574	0.84	<0.01	0.22	9.68	20.6	650	2.06	<0.01	0.14	<0.02	45.0	1.0	56	4.82	4.7
H885575	1.12	<0.01	<0.01	11.00	24.6	6740	2.43	0.04	0.05	<0.02	51.9	1.5	76	9.12	1.6
H885576	2.22	<0.01	0.11	2.48	35	3310	0.90	0.07	15.50	0.64	47.4	20.7	53	1.70	17.4
H885577	1.90	0.01	0.19	1.95	37	2370	0.90	0.07	20.6	0.78	34.8	20.3	56	1.36	12.2
H885578	0.80	<0.01	0.19	1.89	34	2260	0.87	0.06	20.4	0.77	34.8	18.6	56	1.40	11.6
H885579	3.24	<0.01	0.12	1.50	27	700	0.70	0.02	24.7	0.53	27.4	12.6	48	0.95	9.1
H885580	3.16	<0.01	0.02	0.72	11	150	0.24	0.03	35.4	0.22	9.79	3.2	18	0.31	4.7
H885581	0.28	5.44	0.20	0.12	>10000	30	<0.05	479	9.02	0.04	35.8	1.8	14	0.71	41.6
H885582	8.62	0.10	0.12	5.19	1100	740	1.38	4.03	12.20	0.36	60.9	28.2	30	6.48	27.7
H885583	2.28	0.09	0.16	3.45	725	450	0.83	2.78	14.25	0.25	32.3	30.2	19	4.28	24.3
H885584	6.42	0.07	0.19	2.73	613	370	0.80	1.60	16.10	0.47	39.3	19.6	17	3.32	19.4
H885585	3.30	<0.01	0.17	0.08	8	20	0.08	0.07	19.45	0.06	1.44	1.0	1	0.17	2.2
H885586	2.76	0.04	0.19	0.88	563	120	0.36	9.44	18.80	1.34	13.40	3.7	12	1.46	6.8
H885587	4.02	0.05	0.23	0.82	1140	130	0.37	26.5	17.70	2.53	14.50	6.7	14	1.35	8.1
H885588	4.64	0.02	0.21	0.20	936	30	0.20	3.12	18.30	1.42	9.20	2.7	1	0.11	4.5

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090674

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885553		24.4	1.30	0.56	0.2	<1	0.061	0.07	21.7	1.5	4.99	1480	11.05	0.01	1.2	12.8
H885554		5.16	19.15	0.21	0.6	<0.01	0.073	3.97	26.2	28.8	1.33	1020	0.82	0.07	29.1	188.5
H885555		5.91	10.90	0.16	0.4	<0.01	0.043	2.42	20.7	15.1	0.72	1280	1.20	0.04	18.2	170.0
H885556		7.07	19.30	0.22	0.8	<0.1	0.068	3.96	29.6	25.6	0.92	1040	0.89	0.07	28.1	238
H885557		5.23	4.27	0.12	0.5	<0.01	0.021	1.02	9.5	6.8	1.24	761	1.04	0.02	7.0	108.0
H885558		0.88	0.93	0.09	0.2	<0.01	0.012	0.21	3.1	1.7	2.42	217	0.59	0.01	1.8	10.2
H885559		0.74	0.35	0.08	0.1	<0.01	0.007	0.08	3.0	0.5	0.40	150	0.27	<0.01	1.2	4.2
H885560		0.97	3.23	0.13	0.7	<0.01	0.014	0.73	11.4	4.4	1.67	249	0.62	0.01	8.7	8.3
H885561		0.76	1.77	0.11	0.4	<0.1	0.010	0.40	6.2	2.3	1.21	464	0.74	0.01	4.4	5.3
H885562		1.99	2.34	0.12	0.5	<0.1	0.013	0.44	11.5	2.5	1.74	1720	0.43	0.01	8.3	15.6
H885563		7.24	3.27	0.17	0.7	<0.01	0.026	0.33	24.4	3.7	1.21	3440	1.41	0.01	20.4	119.5
H885564		9.04	18.95	0.21	0.6	0.01	0.076	2.58	27.7	22.7	1.87	1200	0.98	0.06	33.5	267
H885565		0.41	0.37	0.23	<0.1	<0.01	0.019	0.05	1.1	1.2	12.95	189	0.14	0.01	0.5	2.0
H885566		8.15	18.40	0.26	0.7	0.02	0.073	0.46	27.9	24.1	1.79	1580	1.56	<0.01	35.1	287
H885567		6.22	17.50	0.12	0.6	0.01	0.057	0.01	24.8	19.1	1.25	1580	1.10	<0.01	23.5	175.0
H885568		6.54	18.85	0.15	0.4	<0.1	0.059	0.08	27.5	29.2	0.66	1740	1.17	<0.01	21.4	195.5
H885569		11.55	21.5	0.31	0.4	0.04	0.077	1.88	48.5	33.2	0.44	937	1.52	0.06	11.1	376
H885570		9.94	23.8	0.27	2.2	0.09	0.075	3.76	87.9	26.5	0.69	307	1.65	0.10	20.3	152.5
H885571		8.79	25.0	0.24	2.1	0.03	0.079	4.43	65.0	27.2	0.78	261	0.96	0.11	43.8	31.7
H885572		5.88	27.5	0.21	2.1	0.04	0.087	5.02	58.6	29.5	0.84	75	1.47	0.11	44.8	22.5
H885573		4.90	26.9	0.18	1.8	0.07	0.065	5.20	44.2	27.8	0.80	39	1.58	0.10	63.0	2.6
H885574		8.10	28.1	0.23	1.9	0.16	0.075	5.57	26.2	26.2	0.82	12	1.20	0.12	75.1	3.3
H885575		5.18	42.0	0.15	4.6	0.04	0.092	6.20	33.0	40.4	1.00	24	1.99	0.12	122.0	6.2
H885576		3.40	6.91	0.15	1.5	<0.1	0.032	1.11	41.0	13.1	0.25	649	1.04	0.03	15.7	46.6
H885577		2.72	5.60	0.16	1.5	0.02	0.034	0.84	29.3	13.0	0.24	1130	1.18	0.02	11.6	66.9
H885578		2.69	5.37	0.15	1.5	<0.1	0.031	0.82	29.2	12.8	0.23	1080	1.11	0.02	11.0	66.8
H885579		2.77	4.13	0.13	1.2	0.02	0.019	0.61	23.2	8.2	0.21	1600	0.68	0.02	9.6	46.6
H885580		0.61	2.06	0.10	0.4	<0.1	0.012	0.32	8.4	2.6	0.31	257	0.14	0.01	4.6	8.2
H885581		24.2	1.08	0.33	0.2	<1	0.070	0.07	23.1	1.6	4.88	1460	10.95	0.01	1.5	12.9
H885582		4.96	15.90	0.19	1.1	<0.01	0.033	2.59	31.3	21.6	7.49	705	0.22	0.03	22.7	58.0
H885583		3.67	11.45	0.16	0.9	<0.01	0.030	1.62	15.7	20.4	7.60	605	0.21	0.02	14.5	61.9
H885584		3.24	8.22	0.16	0.8	<0.01	0.022	1.34	21.0	15.1	9.54	569	0.33	0.02	11.8	49.4
H885585		0.41	0.32	0.18	<0.1	<0.01	0.009	0.04	0.9	1.2	12.95	189	0.08	0.01	0.5	0.6
H885586		2.37	3.06	0.11	0.6	<0.1	0.022	0.44	8.9	6.4	10.05	531	0.30	0.01	5.3	9.0
H885587		3.12	2.61	0.12	0.6	<0.01	0.020	0.39	9.2	3.8	11.00	540	0.45	0.01	4.5	14.6
H885588		2.86	0.61	0.09	0.1	<0.1	0.015	0.04	5.6	1.3	11.15	508	0.37	0.01	0.5	5.4

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090674

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885553		70	6.7	8.9	<0.002	>10.0	23.6	0.7	9	3.0	57.1	0.07	1.12	0.3	0.008	0.16
H885554		1870	1.4	101.5	<0.002	0.04	0.17	27.6	2	1.8	92.3	1.82	<0.05	3.4	1.120	1.44
H885555		1360	2.0	66.9	<0.002	0.04	0.15	16.6	2	1.1	143.0	1.04	<0.05	2.2	0.601	0.83
H885556		1990	1.4	95.8	<0.002	0.03	0.13	25.4	2	1.7	43.9	1.65	<0.05	3.4	1.030	1.51
H885557		320	1.7	27.9	<0.002	0.02	0.11	7.2	2	0.5	241	0.40	0.05	1.1	0.224	0.47
H885558		40	1.4	5.4	<0.002	0.14	0.11	1.6	2	<0.2	234	0.09	0.07	0.4	0.043	0.09
H885559		30	1.9	2.0	<0.002	0.33	0.16	1.4	2	<0.2	185.0	<0.05	0.11	0.3	0.024	0.06
H885560		170	1.4	21.3	<0.002	0.01	0.11	2.7	2	0.4	323	0.51	0.06	1.6	0.126	0.11
H885561		140	0.9	10.7	<0.002	0.03	0.10	1.4	2	0.2	264	0.24	0.05	0.8	0.063	0.09
H885562		530	2.5	11.8	<0.002	0.05	0.36	3.2	2	0.4	254	0.44	0.09	1.3	0.120	0.14
H885563		730	4.9	12.8	<0.002	0.03	0.37	6.5	2	0.5	220	1.11	0.07	3.5	0.466	0.50
H885564		2010	2.1	58.7	<0.002	0.05	0.95	25.6	2	1.6	122.5	2.10	<0.05	3.5	1.500	0.78
H885565		290	1.2	2.0	<0.002	0.01	<0.05	0.3	1	<0.2	47.6	<0.05	0.05	<0.2	0.006	<0.02
H885566		1560	3.5	16.9	<0.002	0.04	0.84	25.4	2	1.7	100.0	2.14	<0.05	3.6	1.260	0.26
H885567		1210	2.3	0.5	<0.002	0.01	0.29	22.9	2	1.1	88.1	1.48	<0.05	3.0	0.827	0.11
H885568		1220	1.9	2.6	<0.002	0.01	0.54	24.0	2	1.0	53.7	1.38	<0.05	3.0	0.783	0.20
H885569		3010	2.8	60.5	<0.002	0.04	10.20	26.8	2	1.4	141.5	0.81	<0.05	6.8	0.660	0.74
H885570		5350	3.5	98.4	<0.002	0.31	7.88	18.5	2	1.9	282	1.10	<0.05	11.4	0.384	3.70
H885571		8630	3.3	114.5	<0.002	0.41	2.07	11.9	2	2.3	217	2.44	<0.05	12.2	0.418	1.56
H885572		5580	4.9	134.5	<0.002	0.29	3.43	11.6	2	2.7	171.5	2.59	<0.05	9.2	0.412	1.23
H885573		1740	7.9	142.0	<0.002	1.10	3.57	11.7	2	3.2	156.0	3.31	<0.05	8.4	0.506	2.05
H885574		2910	6.1	120.5	<0.002	2.40	3.88	12.2	2	3.5	213	3.85	<0.05	11.8	0.651	1.57
H885575		1230	6.1	148.5	<0.002	1.15	3.25	14.6	3	4.7	188.0	6.93	<0.05	11.6	0.816	2.24
H885576		1060	8.7	36.7	<0.002	0.16	5.19	5.0	2	0.9	129.0	0.86	0.08	3.2	0.305	0.48
H885577		710	10.6	31.1	<0.002	0.05	4.91	6.4	2	0.7	63.7	0.66	0.09	2.1	0.294	0.38
H885578		700	11.3	30.4	<0.002	0.04	5.45	6.3	2	0.7	59.8	0.62	0.09	2.0	0.290	0.40
H885579		550	6.7	22.8	<0.002	0.01	3.10	5.4	2	0.5	63.8	0.52	0.07	1.7	0.253	0.43
H885580		250	1.7	12.0	<0.002	0.01	0.40	2.2	2	0.2	243	0.24	0.09	0.6	0.117	0.10
H885581		60	6.4	7.6	<0.002	>10.0	23.4	0.4	9	2.1	59.6	0.09	1.41	0.3	0.008	0.15
H885582		1630	6.2	82.3	<0.002	0.05	1.74	10.9	2	2.0	46.4	1.39	<0.05	2.7	0.719	0.63
H885583		1640	2.5	53.7	<0.002	0.02	1.46	7.4	2	1.4	54.2	0.83	<0.05	1.6	0.445	0.34
H885584		1350	2.0	42.6	<0.002	0.01	1.31	5.8	2	1.0	59.0	0.70	0.05	1.7	0.360	0.29
H885585		220	1.3	1.1	<0.002	0.01	0.08	0.3	1	<0.2	46.9	<0.05	<0.05	<0.2	0.005	<0.02
H885586		420	2.5	17.3	<0.002	0.01	1.13	2.2	2	0.5	84.4	0.30	0.06	0.9	0.104	0.13
H885587		490	4.1	20.1	<0.002	0.01	1.95	1.8	2	0.4	69.1	0.26	0.05	0.9	0.088	0.16
H885588		100	2.7	2.2	<0.002	0.01	0.60	0.5	2	<0.2	81.5	<0.05	0.06	<0.2	0.008	0.02

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090674

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885553		0.5	7	37.1	4.5	9	5.2	3.79
H885554		0.6	205	1.8	21.2	23	25.0	
H885555		0.6	104	1.3	18.0	18	12.9	
H885556		0.7	183	2.1	19.5	22	30.2	
H885557		0.6	45	0.4	11.2	62	18.8	
H885558		0.3	12	0.1	4.7	43	9.4	
H885559		0.3	12	<0.1	6.7	<2	4.9	
H885560		0.4	18	0.3	7.2	11	27.0	
H885561		0.3	10	0.2	3.6	15	18.7	
H885562		0.5	21	0.3	16.1	6	22.9	
H885563		1.3	84	0.7	23.1	121	27.1	
H885564		0.6	244	3.6	17.4	96	22.7	
H885565		0.5	4	0.1	1.0	14	7.3	
H885566		0.7	242	6.1	18.7	95	25.2	
H885567		0.6	203	1.9	18.0	67	22.6	
H885568		0.5	198	3.4	19.3	82	16.9	
H885569		1.3	259	26.3	23.0	167	13.9	
H885570		2.0	159	13.8	19.7	65	98.9	
H885571		1.2	104	9.8	16.5	44	89.6	
H885572		1.0	118	7.5	15.0	75	88.3	
H885573		0.8	99	3.8	8.1	10	77.4	
H885574		1.1	120	4.2	9.3	9	78.9	
H885575		2.4	141	4.6	15.7	13	196.5	
H885576		1.6	66	3.2	14.1	128	56.0	
H885577		1.9	67	3.0	17.1	317	58.6	
H885578		1.9	66	3.1	16.5	309	53.9	
H885579		1.3	53	3.3	18.6	521	44.0	
H885580		0.3	21	0.6	8.2	66	19.7	
H885581		0.4	5	34.2	4.6	11	5.6	3.74
H885582		0.6	116	4.5	13.7	103	45.3	
H885583		0.5	78	4.9	10.4	71	31.5	
H885584		0.5	63	2.0	11.0	151	31.5	
H885585		0.3	2	0.1	1.0	14	0.5	
H885586		0.4	30	1.3	12.3	194	20.7	
H885587		0.7	33	2.1	8.9	216	22.5	
H885588		0.3	12	1.0	6.9	190	2.7	

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090674

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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

Finalized Date: 8-SEP-2009
Account: RCM

CERTIFICATE VA09090673

Project: RAU

P.O. No.: Batch 41

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 24-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 8-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090673

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885589		2.42	0.26	1.70	5.84	8990	750	2.10	10.45	2.32	14.50	88.0	23.7	46	4.26	92.2
H885590		1.94	0.33	0.71	3.62	>10000	660	1.16	22.4	0.58	8.86	60.7	14.7	31	2.01	64.7
H885591		3.98	<0.01	0.02	0.09	26	60	0.07	0.09	21.5	0.11	1.47	0.7	1	0.15	3.0
H885592		2.04	0.04	0.16	9.23	3710	1770	2.41	34.4	0.26	2.01	106.5	9.3	63	6.45	29.1
H885593		2.70	0.06	0.40	8.97	1920	1910	1.83	5.11	0.33	1.04	132.0	5.1	61	6.25	21.6
H885594		0.32	0.08	3.51	11.40	689	2350	2.01	4.52	0.13	0.26	19.35	0.9	84	5.59	12.8
H885595		4.38	0.06	0.21	9.33	890	2410	1.98	4.94	0.10	0.54	40.7	4.6	61	6.03	21.2
H885596		2.70	0.09	0.07	8.65	1120	1900	1.60	2.77	0.24	0.97	79.2	4.0	54	5.01	16.9
H885597		0.28	1.50	1.76	0.15	>10000	40	0.07	351	13.35	0.86	57.4	1.5	6	0.66	19.2
H885598		1.90	0.04	0.09	8.93	1920	2410	1.71	2.12	0.21	2.49	70.9	20.4	59	5.83	81.7
H885599		3.02	0.02	0.06	6.95	573	1990	1.42	3.51	0.37	3.05	108.5	46.0	44	10.40	79.2
H885600		1.94	0.01	0.01	6.22	318	1290	1.00	0.11	0.34	2.33	64.9	48.5	41	14.65	54.3
H885601		3.14	0.02	0.01	7.77	938	1540	1.78	0.23	0.37	2.33	129.5	50.7	58	14.85	52.8
H885602		2.50	0.06	1.75	3.31	3350	1310	1.61	6.22	0.45	6.48	54.8	15.1	34	5.41	45.6
H885603		4.28	<0.01	0.01	0.11	7	20	0.16	0.09	22.1	0.07	1.61	0.8	2	0.18	2.1
H885604		2.58	0.02	0.25	3.32	1500	920	1.19	5.02	0.22	6.80	32.2	22.7	27	2.48	28.4
H885605		2.86	0.09	8.29	2.81	2360	670	0.76	4.19	12.45	4.59	36.1	11.8	24	4.13	28.5
H885606		8.38	<0.01	0.09	8.18	50.9	1240	2.30	0.32	0.44	1.14	109.5	34.0	66	17.20	22.2
H885607		9.00	<0.01	0.08	9.29	40.7	1580	2.18	0.09	1.08	0.47	119.0	27.4	69	13.25	5.8
H885608		5.38	<0.01	0.01	9.68	14.1	1680	2.45	0.04	1.49	0.33	129.5	34.6	73	12.25	1.4
H885609		6.22	<0.01	<0.01	5.32	19	900	1.34	0.01	20.4	0.18	74.8	18.8	32	5.36	45.1
H885610		7.58	<0.01	<0.01	6.18	36	1170	1.53	0.03	17.00	0.37	94.9	23.1	36	7.99	26.0
H885611		8.18	<0.01	<0.01	8.73	42.4	1230	2.16	0.03	6.20	0.08	126.0	27.1	63	12.25	<0.2
H885612		3.80	<0.01	<0.01	8.78	29.8	1200	2.09	0.02	5.11	0.07	125.5	27.0	62	11.90	<0.2
H885613		6.04	<0.01	0.12	6.86	99	1230	1.60	0.23	12.55	0.43	96.0	22.2	40	9.59	8.7
H885614		1.00	<0.01	<0.01	5.31	100	1140	1.58	0.15	19.65	0.33	72.8	19.4	31	5.16	17.5
H885615		1.32	0.09	0.29	0.53	360	270	0.27	4.51	27.6	1.43	10.45	3.0	11	1.64	3.9
H885616		0.42	0.35	8.51	1.66	>10000	1640	1.08	55.7	0.92	8.97	44.1	3.6	31	1.37	29.1
H885617		0.88	0.25	1.83	0.61	6350	800	0.88	14.85	1.35	1.49	15.15	1.9	15	0.55	8.0
H885618		0.28	0.49	0.93	0.82	6080	20	0.30	99.8	13.10	0.15	33.7	5.3	14	1.96	34.8
H885619		0.42	0.24	0.55	0.46	942	330	0.33	7.18	33.8	1.86	9.13	1.8	10	1.19	3.0
H885620		0.94	0.17	0.12	0.44	1900	410	0.25	2.53	32.6	0.27	8.63	2.1	11	0.87	2.0
H885621		2.18	0.17	0.14	0.78	994	610	0.38	4.81	25.2	0.23	8.90	2.6	14	1.89	1.7
H885622		2.06	0.09	0.24	0.41	643	420	0.29	3.30	25.2	1.50	7.54	1.5	7	0.41	1.8
H885623		0.68	0.21	0.52	0.18	1340	460	0.13	13.55	27.0	2.46	7.67	1.9	5	0.10	2.1
H885624		0.82	0.07	0.61	0.18	327	190	0.21	2.24	23.7	1.84	6.09	1.0	3	0.17	2.9

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 8-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090673

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885589		27.8	16.85	0.36	1.0	0.20	0.125	1.50	39.2	25.9	2.80	622	3.41	0.04	4.0	146.0
H885590		34.1	17.75	0.49	0.8	0.11	0.131	0.83	29.8	10.2	0.77	570	3.96	0.03	2.3	101.5
H885591		0.52	0.30	<0.05	<0.1	<0.01	<0.005	0.03	0.7	0.3	13.45	192	0.34	0.01	0.3	3.1
H885592		15.60	38.9	0.25	3.0	0.04	0.095	4.19	59.7	14.0	0.78	185	1.59	0.10	10.9	35.7
H885593		11.05	30.7	0.25	0.9	0.04	0.112	4.28	65.2	21.9	2.04	156	0.83	0.09	15.7	27.0
H885594		4.94	44.1	0.13	2.6	0.03	0.095	5.23	8.6	9.8	0.58	44	3.09	0.13	57.2	7.2
H885595		7.11	35.4	0.13	2.2	0.02	0.073	4.36	22.0	11.2	0.48	48	0.72	0.14	20.1	13.5
H885596		7.13	28.0	0.19	1.0	0.02	0.057	3.88	35.6	11.8	1.23	69	0.43	0.10	19.4	18.5
H885597		17.45	1.16	0.33	0.1	0.03	0.086	0.08	36.9	0.9	7.26	2280	5.81	0.01	0.7	8.4
H885598		16.10	32.7	0.22	0.2	0.02	0.125	3.72	34.6	8.3	0.44	294	0.91	0.13	5.6	65.2
H885599		26.2	20.4	0.33	0.2	0.03	0.099	2.61	50.2	13.6	0.97	2250	0.56	0.08	12.0	147.0
H885600		32.4	16.10	0.52	0.2	0.03	0.081	1.63	29.3	18.2	1.43	3300	0.74	0.03	34.2	193.5
H885601		24.1	23.9	0.34	0.5	0.02	0.094	2.80	63.1	24.5	1.66	1620	0.44	0.06	37.6	212
H885602		39.9	10.90	0.49	0.6	0.05	0.058	1.14	26.7	5.4	0.47	3270	2.69	0.03	6.6	72.2
H885603		0.50	0.38	0.05	<0.1	<0.01	<0.005	0.05	0.7	<0.2	13.65	194	0.13	0.01	0.3	3.0
H885604		40.6	11.50	0.61	0.7	0.03	0.105	1.21	16.8	3.0	0.35	3660	1.05	0.04	5.5	63.6
H885605		22.7	9.02	0.23	0.3	0.02	0.043	1.21	18.0	2.9	0.45	1820	6.37	0.03	14.6	47.2
H885606		20.4	24.0	0.31	0.2	0.06	0.099	4.46	52.2	23.3	1.09	781	0.70	0.08	7.9	126.0
H885607		15.90	25.4	0.25	0.2	0.03	0.121	4.68	56.8	28.3	0.97	389	0.33	0.11	4.9	112.5
H885608		16.20	25.5	0.29	0.2	0.02	0.123	5.18	59.1	29.2	1.01	278	0.61	0.12	6.4	133.5
H885609		5.79	15.35	0.16	0.2	0.01	0.065	2.74	35.8	11.8	0.88	701	0.26	0.12	21.2	66.6
H885610		7.25	17.60	0.19	0.2	0.01	0.080	3.15	47.1	10.3	0.69	790	0.23	0.08	27.0	71.0
H885611		12.00	26.1	0.25	0.2	0.01	0.111	4.59	59.6	17.4	0.89	228	0.24	0.11	19.5	91.3
H885612		12.10	26.4	0.24	0.2	0.01	0.110	4.58	58.7	18.5	0.94	221	0.24	0.11	16.6	89.8
H885613		8.70	23.0	0.19	0.3	0.02	0.078	3.43	45.9	11.1	0.72	954	0.21	0.08	26.7	70.8
H885614		4.62	16.50	0.15	0.2	0.04	0.065	2.04	34.5	7.4	0.34	1190	0.23	0.06	37.1	63.3
H885615		1.49	2.43	0.07	0.3	0.01	0.031	0.21	6.3	0.9	4.72	1410	0.34	0.02	1.9	9.4
H885616		42.3	7.30	0.81	0.5	0.05	0.390	0.25	18.9	1.1	0.19	1690	1.26	0.03	0.9	21.2
H885617		14.60	2.45	0.20	0.2	0.02	0.090	0.13	6.6	<0.2	0.07	452	0.29	0.02	0.4	7.4
H885618		14.95	3.86	0.21	0.2	0.01	0.071	0.41	19.0	2.4	6.89	2040	17.20	0.02	1.8	23.8
H885619		3.31	2.37	0.07	0.3	0.02	0.021	0.10	5.6	<0.2	1.22	1570	0.33	0.01	1.8	8.5
H885620		6.22	2.20	0.09	0.3	0.01	0.023	0.11	5.1	<0.2	1.00	1570	0.27	0.02	1.7	10.1
H885621		4.70	3.91	0.08	0.5	0.01	0.023	0.34	5.6	1.4	6.01	1470	0.18	0.02	1.9	10.7
H885622		3.38	2.48	0.07	0.3	0.01	0.062	0.14	5.3	0.4	8.12	1780	0.15	0.02	1.6	6.7
H885623		11.30	1.19	0.10	0.3	0.01	0.145	0.06	4.3	<0.2	2.70	2930	0.63	0.01	0.5	8.1
H885624		2.87	1.04	0.06	0.1	0.01	0.088	0.06	4.1	2.9	11.35	1500	0.34	0.02	0.4	4.6

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 8-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090673

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885589		3750	11.5	53.2	0.002	0.51	8.96	13.3	8	0.9	274	0.23	0.17	2.9	0.134	0.75
H885590		3770	8.6	27.9	<0.002	0.27	11.45	7.1	4	1.2	103.0	0.13	0.26	3.1	0.085	0.57
H885591		300	1.7	1.2	0.002	0.01	0.08	0.3	1	<0.2	48.7	<0.05	<0.05	<0.2	<0.005	<0.02
H885592		1790	16.8	119.0	<0.002	0.62	4.52	19.5	3	2.7	121.0	0.62	<0.05	5.8	0.386	1.04
H885593		2370	7.0	120.0	<0.002	1.35	3.14	20.9	3	2.9	218	0.90	<0.05	5.5	0.552	1.12
H885594		1070	6.4	138.0	<0.002	0.35	1.67	24.3	4	5.3	85.0	3.25	<0.05	3.9	1.890	0.98
H885595		1320	8.1	123.0	<0.002	0.50	2.54	19.8	3	4.8	114.0	1.19	<0.05	4.1	0.714	1.00
H885596		2430	5.7	102.0	<0.002	0.65	2.42	19.5	3	3.5	279	1.15	<0.05	5.4	0.679	1.11
H885597		130	15.3	7.7	0.005	>10.0	22.1	0.6	5	1.2	91.6	<0.05	0.82	0.5	0.015	0.10
H885598		3060	17.5	97.2	0.002	0.31	6.98	18.3	3	2.6	124.5	0.31	<0.05	5.6	0.259	0.72
H885599		3530	9.5	93.4	0.003	0.61	1.67	14.3	2	2.2	106.5	1.01	<0.05	4.5	0.658	0.89
H885600		2700	22.5	109.0	<0.002	0.04	1.35	10.5	2	2.1	30.0	2.00	<0.05	3.2	1.405	1.05
H885601		2840	49.8	162.0	<0.002	0.05	3.03	14.6	2	2.4	97.2	2.15	<0.05	4.4	1.560	1.41
H885602		2670	184.5	63.2	<0.002	0.05	20.8	8.1	3	0.8	18.0	0.38	0.10	2.3	0.223	0.72
H885603		410	1.7	1.6	<0.002	0.01	0.09	0.4	1	<0.2	49.1	<0.05	<0.05	<0.2	0.007	0.02
H885604		2140	13.5	47.0	0.002	0.03	2.92	6.2	3	0.7	12.9	0.33	0.09	2.3	0.181	0.25
H885605		1160	11.0	54.9	<0.002	0.03	2.72	4.9	2	0.8	75.7	0.88	0.08	1.6	0.473	0.37
H885606		1250	11.7	154.5	0.002	0.01	1.22	16.0	1	2.0	28.1	0.51	0.25	4.9	0.412	0.55
H885607		1610	2.5	148.5	<0.002	0.01	0.85	19.6	1	2.2	36.4	0.30	<0.05	5.8	0.338	0.61
H885608		1430	2.0	167.5	<0.002	0.01	0.33	20.7	1	2.3	30.5	0.36	<0.05	6.1	0.315	0.49
H885609		1940	5.3	83.4	0.002	0.01	0.53	11.2	1	1.3	167.0	1.29	<0.05	3.3	0.743	0.27
H885610		2080	4.5	101.5	<0.002	0.01	1.79	13.1	1	1.7	84.7	1.58	<0.05	3.9	0.878	0.51
H885611		1200	3.2	167.0	<0.002	<0.01	1.38	18.0	2	2.2	43.6	1.32	<0.05	5.5	0.995	0.77
H885612		1290	2.8	165.5	<0.002	<0.01	1.06	18.3	2	2.1	39.1	1.13	<0.05	5.4	0.921	0.82
H885613		1940	6.5	127.0	<0.002	0.01	3.65	13.4	1	2.0	55.0	1.61	<0.05	4.3	0.945	0.83
H885614		2270	8.9	87.9	<0.002	0.04	5.16	11.1	3	3.1	48.3	2.13	0.07	3.2	1.285	0.60
H885615		210	17.4	25.5	<0.002	0.01	0.89	1.9	1	1.1	74.0	0.11	0.12	0.6	0.057	0.28
H885616		480	98.9	14.5	0.003	0.06	47.1	10.7	4	1.0	18.0	0.05	0.11	2.6	0.021	0.35
H885617		130	20.9	7.8	0.002	0.03	5.62	5.0	3	1.0	7.4	<0.05	<0.05	0.4	0.010	0.08
H885618		240	13.9	30.4	0.017	>10.0	4.56	1.6	6	3.1	88.0	0.10	0.21	0.7	0.049	0.29
H885619		180	18.0	13.7	<0.002	0.02	0.89	1.6	1	0.7	22.3	0.10	0.11	0.5	0.053	0.23
H885620		120	4.7	12.6	<0.002	0.02	0.69	1.2	1	0.7	20.7	0.09	0.06	0.5	0.054	0.15
H885621		300	5.0	21.8	<0.002	0.02	0.74	1.9	1	1.1	33.1	0.11	0.14	0.6	0.062	0.22
H885622		140	25.7	10.8	<0.002	0.02	0.74	1.9	1	2.4	40.6	0.09	0.10	0.3	0.049	0.11
H885623		70	90.4	3.1	<0.002	0.02	0.95	1.7	1	1.0	28.3	<0.05	0.16	0.2	0.012	0.08
H885624		40	67.2	5.1	<0.002	0.02	0.60	0.8	1	1.3	37.7	<0.05	0.05	0.2	0.011	0.07

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Project: RAU

Finalized Date: 8-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090673

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H885589		10.7	84	9.9	29.1	802	33.5	
H885590		6.0	107	8.2	23.3	696	29.7	0.94
H885591		0.6	1	0.1	1.0	18	0.5	
H885592		3.4	319	10.3	14.7	331	107.5	
H885593		2.0	205	7.7	13.1	227	29.6	
H885594		2.3	293	21.3	5.1	31	91.6	
H885595		2.1	236	9.0	5.1	105	79.0	
H885596		1.6	193	6.0	9.1	175	31.4	
H885597		0.7	7	213	7.3	139	4.0	2.57
H885598		2.1	216	3.7	8.3	548	7.7	
H885599		4.1	167	116.0	19.0	1160	7.3	
H885600		3.7	154	0.8	17.0	2200	7.3	
H885601		3.3	196	10.4	20.8	2460	16.8	
H885602		5.9	92	75.0	31.3	3850	20.2	
H885603		0.7	2	0.4	1.2	22	0.5	
H885604		4.4	100	10.8	24.3	2380	23.4	
H885605		2.3	84	32.3	17.4	1340	10.0	
H885606		0.9	125	10.3	8.7	518	5.2	
H885607		0.6	136	7.0	10.2	273	3.3	
H885608		0.3	131	2.0	9.7	189	3.9	
H885609		0.3	100	1.8	16.3	82	8.1	
H885610		0.6	99	15.0	20.6	163	5.7	
H885611		0.7	106	14.3	22.9	138	4.0	
H885612		0.6	98	10.2	19.8	143	3.7	
H885613		1.0	137	49.0	19.4	236	7.4	
H885614		1.0	144	54.6	18.3	386	6.6	
H885615		0.5	16	10.4	7.4	209	12.0	
H885616		4.3	58	157.5	31.1	1740	15.7	2.57
H885617		0.8	14	9.3	11.6	246	5.7	
H885618		0.4	16	63.7	7.3	35	5.9	
H885619		0.4	14	4.2	6.8	357	11.4	
H885620		0.5	11	6.3	6.5	61	11.6	
H885621		0.5	17	94.4	6.6	37	17.4	
H885622		0.4	13	53.7	7.8	146	11.6	
H885623		0.5	17	31.2	7.8	282	9.3	
H885624		0.2	9	12.2	5.0	205	2.8	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 8-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090673

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

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Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE VA09090672

Project: RAU

P.O. No.: Batch 42

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 24-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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

Project: RAU

Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090672

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885625		0.68	0.16	0.41	0.31	1680	680	0.14	23.8	30.0	2.07	8.37	3.1	14	0.30	7.1
H885626		3.74	0.06	0.14	0.11	304	120	0.13	1.46	20.1	0.72	5.43	0.9	2	0.17	2.5
H885627		1.84	0.09	0.17	0.05	422	110	0.12	1.88	19.90	0.43	4.64	0.7	<1	0.11	2.3
H885628		2.02	0.16	0.26	0.07	1340	270	0.11	29.1	19.00	0.62	7.03	1.3	2	0.09	2.3
H885629		0.76	0.12	0.48	0.11	879	690	0.14	31.2	24.7	1.41	9.03	2.2	2	0.11	2.6
H885630		1.06	0.12	0.77	0.28	780	1370	0.16	10.90	28.4	2.15	15.10	1.9	3	0.16	2.9
H885631		1.08	0.17	0.94	0.20	803	770	0.14	66.8	21.8	2.96	7.89	2.1	5	0.18	4.1
H885632		0.54	1.56	0.96	0.82	1490	730	0.55	605	15.85	2.14	8.96	4.0	12	0.32	9.2
H885633		7.58	0.18	0.73	0.62	279	440	0.27	32.6	20.2	1.71	11.85	2.9	8	0.53	4.1
H885634		3.58	0.10	0.76	0.68	349	450	0.28	43.1	19.90	1.61	10.95	3.0	8	0.51	6.8
H885635		7.50	0.07	5.96	0.19	442	1010	0.09	97.5	18.95	7.33	9.63	2.0	2	0.20	9.6
H885636		8.78	0.15	32.8	0.33	668	500	0.20	979	15.60	6.87	8.93	3.1	4	0.30	39.0
H885637		4.16	0.04	7.08	0.23	253	590	0.12	58.0	16.40	6.71	8.25	1.4	3	0.38	8.0
H885638		3.98	0.11	6.97	0.21	427	500	0.14	36.0	16.80	9.57	7.40	1.6	1	0.24	6.0
H885639		5.36	0.01	0.24	0.23	34	180	0.18	1.76	19.55	2.32	5.78	0.9	1	0.20	2.6
H885640		0.28	0.47	0.86	0.84	6350	90	0.26	100.5	13.25	0.14	35.4	5.9	14	2.03	37.3
H885641		5.80	0.15	0.90	0.71	518	420	0.39	60.1	17.15	5.16	8.88	5.2	23	0.76	7.1
H885642		9.76	0.05	0.05	1.00	36	250	0.30	1.63	26.7	0.05	17.40	5.6	23	1.87	4.5
H885643		4.72	0.05	0.10	1.58	50	500	0.44	0.28	31.9	0.08	25.3	8.6	42	1.81	6.8
H885644		5.14	0.05	0.61	2.08	360	830	0.64	1.81	26.1	1.09	29.4	10.9	46	1.56	7.3
H885645		5.16	0.06	0.33	2.14	166	610	0.61	2.09	30.9	0.36	29.8	10.2	50	1.70	7.4
H885646		5.30	0.01	0.13	1.04	10	540	0.51	0.27	20.7	1.79	11.25	2.4	8	2.63	3.8
H885647		2.90	<0.01	1.46	7.60	62.2	540	1.96	11.05	3.70	7.50	50.1	52.0	234	8.27	197.0
H885648		1.96	<0.01	4.16	8.93	158.0	600	2.14	2.07	6.07	52.5	39.2	57.7	241	12.25	120.0
H885649		4.06	<0.01	0.02	0.08	<5	20	0.05	0.08	19.50	0.16	1.41	1.2	<1	0.18	3.5
H885650		0.98	<0.01	0.47	7.37	10.6	640	1.54	1.04	9.49	0.94	30.0	25.1	163	8.92	69.7
H885651		4.82	<0.01	0.02	1.43	7	130	0.37	0.12	19.80	0.22	13.70	3.3	9	2.39	8.4
H885652		5.14	<0.01	0.06	1.51	9	220	0.52	0.24	19.50	0.37	16.15	6.1	10	2.03	7.3
H885653		1.12	<0.01	0.04	8.65	16.8	490	1.47	0.40	2.90	0.88	42.7	43.8	201	6.92	70.5
H885654		3.34	0.01	0.06	3.62	10	650	1.30	1.21	36.8	0.15	39.8	20.5	47	2.00	24.9
H885655		3.44	<0.01	0.01	2.07	6	270	0.55	0.15	20.8	0.05	21.5	4.9	15	4.18	9.7
H885656		0.28	0.52	0.80	0.79	5900	90	0.32	93.5	12.45	0.10	31.9	5.7	13	1.90	36.4
H885657		3.54	<0.01	<0.01	6.60	17.3	700	1.57	0.79	9.88	0.14	75.7	22.8	106	11.45	44.0
H885658		3.22	<0.01	0.74	8.91	25.9	1730	2.60	0.48	5.06	6.81	146.0	20.7	115	20.1	35.0
H885659		3.14	0.01	1.44	3.17	36	300	0.95	0.27	24.2	22.8	41.1	15.8	80	5.10	32.1
H885660		4.46	0.01	0.02	0.24	<5	40	0.12	0.08	19.15	0.09	2.51	1.5	1	0.31	3.9

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Project: RAU

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CERTIFICATE OF ANALYSIS VA09090672

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885625		8.72	1.88	0.10	0.3	0.8	0.083	0.08	4.9	1.1	1.93	3440	0.63	0.01	1.1	8.3
H885626		2.44	0.66	0.05	0.1	0.08	0.028	0.03	3.7	2.6	10.90	1220	0.17	0.01	0.4	1.3
H885627		2.72	0.33	0.05	<0.1	0.1	0.022	0.01	3.3	2.4	10.95	1160	0.22	<0.01	0.2	0.4
H885628		14.15	0.55	0.17	<0.1	<0.1	0.053	0.01	3.8	1.3	5.82	2160	1.52	<0.01	0.2	3.4
H885629		10.65	0.87	0.13	0.1	0.1	0.088	0.03	4.8	1.1	3.60	4310	1.32	<0.01	0.3	6.4
H885630		6.69	2.18	0.11	0.2	0.04	0.174	0.11	6.4	0.9	1.61	6670	1.65	<0.01	0.7	4.5
H885631		9.92	1.42	0.14	0.2	0.1	0.182	0.06	3.9	0.9	1.48	3840	1.31	<0.01	0.6	6.1
H885632		24.8	6.27	0.35	0.5	46	0.404	0.24	3.5	2.5	0.80	4590	1.61	0.03	2.0	16.3
H885633		8.35	4.21	0.11	0.5	0.03	0.140	0.11	4.8	1.6	5.96	5320	0.41	0.03	1.9	9.4
H885634		8.70	5.00	0.12	0.5	0.04	0.159	0.11	4.6	1.7	5.47	5370	0.46	0.03	2.0	9.6
H885635		10.70	1.54	0.12	0.2	<0.1	0.297	0.04	3.8	1.3	6.45	6320	0.35	<0.01	0.5	5.7
H885636		14.40	2.90	0.26	0.2	<0.1	0.243	0.12	3.1	2.3	5.73	6470	0.21	<0.01	0.5	10.8
H885637		7.64	1.78	0.09	0.1	0.04	0.187	0.09	2.9	1.7	9.08	5250	0.15	<0.01	0.5	4.0
H885638		10.55	1.84	0.13	0.1	0.03	0.175	0.09	3.1	1.8	9.02	4810	0.44	<0.01	0.3	4.2
H885639		1.76	1.50	<0.05	0.2	0.02	0.119	0.04	3.2	2.6	12.50	2360	0.11	0.01	1.2	1.3
H885640		15.20	3.72	0.20	0.2	0.5	0.079	0.43	19.6	4.3	7.36	2170	16.70	0.02	3.1	21.9
H885641		8.55	4.93	0.11	0.5	<0.1	0.133	0.19	4.6	2.3	7.87	3360	0.99	0.03	2.6	16.6
H885642		1.46	2.74	0.05	0.6	<0.01	0.037	0.48	11.0	4.5	2.15	553	0.25	<0.01	5.4	16.3
H885643		1.72	3.98	0.06	0.7	0.01	0.033	0.75	15.9	5.3	1.15	508	0.34	0.01	9.0	24.0
H885644		3.92	5.50	0.09	1.0	0.03	0.038	0.95	19.2	6.2	0.50	2790	0.84	0.02	11.1	29.1
H885645		2.46	5.59	0.08	1.0	0.01	0.039	1.00	19.2	7.5	1.22	1470	0.54	0.02	11.6	26.4
H885646		0.73	2.83	<0.05	0.3	0.02	0.013	0.52	5.3	4.7	10.20	686	0.34	<0.01	1.5	4.6
H885647		8.45	24.6	0.18	0.5	0.02	0.070	4.51	24.5	41.8	1.93	1500	1.42	0.04	15.3	216
H885648		5.75	25.8	0.15	0.4	0.07	0.069	5.05	18.9	39.3	1.17	2500	0.90	0.04	21.3	229
H885649		0.41	0.26	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.3	12.90	197	0.06	<0.01	0.3	1.1
H885650		4.53	21.1	0.13	0.4	0.02	0.065	4.11	15.1	33.5	1.37	693	0.73	0.04	15.3	110.0
H885651		0.87	3.73	0.05	0.4	0.01	0.020	0.85	6.4	8.3	9.54	201	0.64	0.01	2.1	9.9
H885652		1.24	3.93	0.06	0.5	0.01	0.022	0.87	7.9	8.0	10.60	321	0.80	0.01	2.2	14.8
H885653		5.04	24.0	0.17	1.1	0.01	0.093	5.27	19.1	32.3	2.99	117	0.66	0.03	22.7	164.5
H885654		3.68	11.95	0.13	1.6	<0.1	0.052	2.92	19.5	21.4	18.55	722	1.80	0.03	8.5	50.3
H885655		1.28	5.36	0.07	0.6	<0.01	0.022	1.16	10.6	9.4	8.06	230	0.13	0.01	3.0	13.2
H885656		14.20	3.59	0.19	0.2	<0.1	0.070	0.40	18.2	4.0	6.91	2020	16.55	0.02	3.0	20.7
H885657		4.92	17.65	0.15	1.2	0.01	0.069	3.74	39.3	21.1	4.10	430	1.01	0.03	40.7	72.0
H885658		4.44	25.8	0.20	1.5	0.03	0.096	5.17	77.5	26.8	1.60	578	0.88	0.05	102.0	63.5
H885659		2.41	8.47	0.09	1.2	0.04	0.037	1.19	22.6	7.6	0.68	1700	0.78	<0.01	20.9	40.2
H885660		0.46	0.67	<0.05	0.1	<0.01	0.007	0.07	1.3	1.9	12.55	195	0.13	0.03	0.6	3.8

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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885625		140	49.2	6.9	<0.002	<0.01	1.77	2.8	3	1.2	28.4	0.07	0.16	0.2	0.034	0.13
H885626		40	30.5	3.0	<0.002	<0.01	0.36	0.6	3	0.6	35.3	<0.05	0.08	<0.2	0.011	0.03
H885627		40	26.9	1.3	<0.002	<0.01	0.34	0.5	3	0.2	37.0	<0.05	<0.05	<0.2	<0.005	<0.02
H885628		40	7.1	1.1	<0.002	0.01	1.19	1.3	4	0.3	32.5	<0.05	0.15	<0.2	<0.005	0.02
H885629		70	21.1	1.6	<0.002	0.02	1.00	1.2	4	0.5	33.5	<0.05	0.13	<0.2	0.007	0.11
H885630		80	50.4	6.6	<0.002	0.01	0.73	2.9	3	1.7	35.5	0.05	0.06	<0.2	0.021	0.17
H885631		60	93.0	4.1	<0.002	0.02	5.91	2.6	4	1.5	23.7	<0.05	0.09	<0.2	0.016	0.07
H885632		250	128.5	11.9	<0.002	0.04	17.30	2.3	5	6.6	26.8	0.13	0.35	0.3	0.054	0.16
H885633		290	78.4	10.4	0.002	<0.01	1.81	2.0	3	4.7	77.1	0.11	0.19	0.2	0.060	0.13
H885634		300	70.2	10.4	0.003	<0.01	1.68	2.5	4	5.9	72.2	0.12	0.17	0.3	0.064	0.14
H885635		130	311	3.9	<0.002	0.04	2.74	1.0	4	2.6	82.4	<0.05	0.18	<0.2	0.015	0.06
H885636		230	936	6.5	<0.002	0.08	12.10	1.8	5	4.0	71.8	<0.05	0.49	0.2	0.016	<0.02
H885637		140	361	6.0	<0.002	0.05	1.62	1.5	3	2.3	105.0	<0.05	0.10	<0.2	0.015	0.04
H885638		60	319	6.0	<0.002	0.04	2.22	1.0	3	1.8	77.4	<0.05	0.07	<0.2	0.007	0.04
H885639		60	62.5	3.2	<0.002	0.01	0.72	0.6	3	2.7	56.2	0.07	<0.05	0.3	0.020	0.03
H885640		250	14.6	31.4	0.015	>10.0	4.68	1.7	8	3.2	90.4	0.20	0.22	0.8	0.095	0.29
H885641		370	84.3	19.7	<0.002	0.03	2.16	1.9	4	7.4	56.4	0.15	0.18	0.8	0.080	0.14
H885642		300	2.7	24.0	<0.002	0.28	1.09	2.9	3	0.8	369	0.32	<0.05	1.0	0.166	0.20
H885643		480	4.8	29.8	<0.002	0.01	2.51	4.4	4	0.9	350	0.53	0.05	1.5	0.270	0.28
H885644		590	7.2	35.3	<0.002	<0.01	4.76	5.7	3	1.1	101.0	0.66	0.05	2.1	0.329	1.14
H885645		590	4.0	35.6	0.003	0.41	4.20	5.7	4	1.2	236	0.71	<0.05	2.2	0.341	0.83
H885646		20	55.0	37.1	<0.002	0.35	1.01	2.1	3	0.8	126.0	0.12	<0.05	1.6	0.054	0.46
H885647		1270	290	176.5	<0.002	0.28	22.0	23.9	2	9.2	31.4	0.88	0.12	3.7	0.646	1.92
H885648		1680	2620	276	<0.002	0.68	34.3	24.0	3	11.9	35.7	1.29	0.06	3.2	0.928	2.66
H885649		250	7.4	1.9	<0.002	<0.01	0.18	0.3	3	<0.2	50.3	<0.05	<0.05	<0.2	0.005	0.02
H885650		860	97.7	203	0.002	0.76	4.08	20.0	2	8.0	66.4	0.86	<0.05	2.3	0.740	1.94
H885651		40	3.5	34.4	0.002	0.43	0.36	2.7	3	0.9	134.5	0.15	<0.05	1.8	0.073	0.37
H885652		80	23.3	35.7	<0.002	0.91	0.86	2.9	3	5.3	145.0	0.15	<0.05	2.0	0.077	0.40
H885653		1590	12.2	124.5	<0.002	3.81	1.89	25.0	3	15.7	30.4	1.27	<0.05	3.5	0.984	1.40
H885654		120	12.3	41.0	<0.002	2.34	1.67	9.9	3	12.9	273	0.56	<0.05	5.0	0.300	0.97
H885655		80	3.6	49.0	<0.002	0.85	0.40	4.0	3	1.3	155.5	0.20	<0.05	2.5	0.109	0.56
H885656		240	12.9	29.2	0.017	>10.0	4.32	1.8	8	3.0	85.5	0.18	0.22	0.7	0.088	0.28
H885657		1660	7.5	130.0	<0.002	2.33	0.90	15.0	3	3.3	80.7	2.38	<0.05	5.3	0.798	1.57
H885658		2980	319	217	<0.002	1.42	3.60	16.1	3	4.8	48.7	6.38	<0.05	12.1	1.130	3.17
H885659		840	549	104.0	<0.002	0.03	6.43	8.7	3	1.6	141.5	1.27	<0.05	3.6	0.543	2.07
H885660		340	4.4	3.1	<0.002	<0.01	0.15	0.7	2	<0.2	69.5	0.05	<0.05	0.2	0.013	0.03

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

Project: RAU

Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09090672

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001
H885625		0.6	17	96.3	11.7	215	13.5	
H885626		0.2	6	4.3	4.5	144	2.6	
H885627		0.1	3	0.6	3.9	129	1.1	
H885628		0.9	7	2.0	7.0	147	1.4	
H885629		0.6	8	2.1	9.6	275	3.4	
H885630		0.5	13	3.4	26.3	256	6.4	
H885631		0.6	9	6.1	14.9	432	6.1	
H885632		1.5	21	116.0	12.3	516	18.0	
H885633		1.0	17	174.5	11.7	340	17.9	
H885634		1.0	18	210	11.0	371	18.4	
H885635		0.8	7	85.2	11.0	1340	6.9	
H885636		0.9	12	8.7	11.3	1440	8.5	
H885637		0.4	7	2.9	10.6	1200	5.6	
H885638		0.6	8	4.8	7.6	1340	3.4	
H885639		0.2	8	2.1	4.5	303	6.6	
H885640		0.5	18	61.9	7.6	36	7.3	
H885641		0.9	24	30.0	8.2	1040	21.8	
H885642		0.7	24	2.0	10.0	25	25.0	
H885643		0.7	38	2.6	13.7	45	30.9	
H885644		1.1	49	45.3	14.5	579	40.0	
H885645		1.1	49	16.3	14.2	253	39.3	
H885646		0.5	11	1.7	5.1	413	13.6	
H885647		0.8	167	6.4	18.5	4110	15.4	
H885648		0.6	180	9.5	18.5	>10000	12.1	1.105
H885649		0.4	2	0.1	1.0	41	<0.5	
H885650		0.6	118	3.5	10.9	483	13.2	
H885651		1.0	16	0.2	5.1	83	16.3	
H885652		1.2	17	0.9	6.4	99	18.6	
H885653		1.3	130	1.4	14.7	165	38.5	
H885654		2.1	52	1.2	18.2	86	58.6	
H885655		1.0	21	0.3	8.6	23	21.8	
H885656		0.4	18	57.7	7.1	30	7.1	
H885657		1.3	116	1.4	18.8	51	44.2	
H885658		1.2	136	3.6	32.8	1140	62.2	
H885659		1.6	72	17.9	17.3	3360	50.0	
H885660		0.7	4	0.1	1.5	23	2.3	

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 6-SEP-2009
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CERTIFICATE OF ANALYSIS VA09090672

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE VA09089514

Project: RAU

P.O. No.: Batch 36

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 18-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09089514

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H884859		3.46	0.67	0.24	0.05	3770	20	<0.05	645	2.38	0.07	4.52	0.8	3	0.36	5.7
H884860		5.82	0.93	0.22	0.04	2880	10	<0.05	637	5.21	0.09	26.0	1.5	<1	0.36	5.2
H884861		6.82	0.57	0.15	0.02	3520	10	<0.05	481	6.62	0.04	28.1	1.2	1	0.27	4.7
H884862		5.60	1.57	0.09	0.06	>10000	10	<0.05	248	8.65	0.04	71.2	0.6	<1	0.48	4.2
H884863		0.28	0.50	0.83	0.80	5460	130	0.19	89.4	12.00	0.13	37.6	5.7	13	2.03	33.4
H884864		5.78	2.28	0.11	0.32	5980	60	0.07	136.5	10.75	0.04	27.6	0.9	<1	0.91	3.8
H884865		5.76	0.12	0.09	0.07	595	10	<0.05	70.7	15.10	0.06	9.43	0.7	<1	0.73	2.2
H884866		5.84	0.13	0.10	0.11	613	10	<0.05	163.5	14.85	0.10	14.95	1.0	<1	0.97	2.8
H884867		6.56	1.12	0.09	0.07	1140	10	<0.05	148.5	10.50	0.06	14.35	0.6	<1	0.79	4.0
H884868		3.66	0.01	0.01	0.10	<5	20	0.06	0.48	19.70	0.05	2.04	1.0	1	0.21	4.1
H884869		6.12	0.13	0.11	0.40	1110	100	0.09	169.5	11.80	0.05	9.66	1.4	2	1.91	4.2
H884870		6.10	0.39	0.15	0.22	8560	60	0.06	54.6	13.00	0.06	24.0	0.7	1	1.36	10.7
H884871		5.78	0.21	0.14	0.23	4890	40	0.06	35.8	15.20	0.07	14.20	0.9	3	2.78	4.7
H884872		5.94	0.14	0.13	0.07	1200	10	<0.05	91.4	13.80	0.05	14.95	0.6	<1	0.98	5.2
H884873		6.04	0.21	0.11	0.09	1020	10	0.05	104.0	14.30	0.08	10.85	0.7	<1	1.03	4.3
H884874		2.12	0.13	0.07	0.10	835	10	<0.05	40.7	15.05	0.13	11.90	0.8	<1	0.81	2.4
H884875		5.70	0.18	0.19	0.23	1440	10	0.09	136.0	13.75	0.09	15.00	1.4	1	1.16	5.5
H884876		6.22	0.12	0.12	0.16	1280	10	0.05	169.0	11.65	0.03	14.40	0.9	1	1.51	5.3
H884877		5.98	0.13	0.10	0.13	3080	10	0.06	82.4	12.80	0.10	15.30	0.6	1	1.27	4.6
H884878		6.16	0.08	0.18	0.09	1280	<10	0.07	242	11.20	0.09	20.9	1.1	<1	1.11	6.6
H884879		6.02	0.07	0.21	0.29	1050	10	0.16	505	10.80	0.09	6.68	1.7	<1	2.68	15.1
H884880		6.38	0.65	0.13	0.09	>10000	10	<0.05	161.0	12.45	0.05	8.87	0.7	<1	0.60	4.3
H884881		4.86	0.59	0.36	0.10	>10000	10	0.05	232	7.49	0.04	23.6	0.7	<1	0.42	7.0
H884882		4.84	0.10	2.32	0.36	2400	20	0.17	119.5	13.35	1.38	11.65	2.2	<1	1.33	8.6
H884883		5.78	0.08	5.34	0.25	3370	30	0.14	99.4	14.60	0.73	8.29	1.5	<1	0.75	20.7
H884884		5.54	0.43	1.22	0.11	>10000	10	0.09	158.5	14.65	0.24	11.85	0.8	<1	0.50	4.5
H884885		2.68	0.28	1.79	0.13	>10000	20	0.09	175.5	14.90	0.22	9.80	0.9	<1	0.52	5.5
H884886		3.88	<0.01	0.12	0.10	28	20	0.07	0.82	20.4	0.07	1.67	0.9	<1	0.28	2.0
H884887		5.74	0.38	0.42	0.13	>10000	20	0.05	196.5	15.50	0.11	10.95	0.8	<1	0.88	3.9
H884888		6.08	0.20	0.09	0.08	>10000	20	<0.05	57.1	15.75	0.06	9.29	0.8	<1	0.77	2.5
H884889		5.70	0.29	0.10	0.10	>10000	20	0.05	45.0	15.25	0.06	5.64	0.8	<1	0.75	7.0
H884890		0.28	1.60	1.75	0.10	>10000	30	0.05	324	12.20	0.81	52.5	1.7	4	0.68	18.3
H884891		3.74	1.42	0.12	0.05	>10000	10	<0.05	46.5	15.55	0.06	5.91	1.0	<1	0.48	3.6
H884892		3.50	0.75	1.18	0.18	1800	10	0.10	163.0	17.95	2.84	10.95	2.6	<1	0.79	5.1
H884893		4.14	0.01	0.08	0.13	245	50	0.10	1.47	33.8	0.23	3.15	1.6	<1	0.13	2.0
H884894		4.42	<0.01	0.01	0.92	25	60	0.17	0.38	34.0	0.09	4.47	3.2	8	0.09	3.6

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089514

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884859		38.3	0.56	0.39	<0.1	<1	0.012	0.03	2.6	0.5	1.29	231	0.22	0.01	0.3	3.3
H884860		34.4	0.65	0.44	<0.1	<1	0.022	0.02	15.8	0.7	2.69	864	0.18	0.01	0.2	7.3
H884861		31.9	0.42	0.31	<0.1	<1	0.034	0.02	17.2	0.5	3.57	1430	0.13	0.01	0.2	5.9
H884862		24.3	0.75	0.29	<0.1	<1	0.062	0.03	48.0	0.7	5.00	1520	0.15	0.01	0.3	2.1
H884863		14.85	3.75	0.22	0.2	<0.1	0.070	0.39	21.7	2.9	6.64	2000	16.90	0.03	3.5	21.1
H884864		19.40	2.25	0.26	0.2	<0.1	0.050	0.17	16.0	2.2	6.38	1820	0.34	0.01	1.6	2.3
H884865		12.25	0.69	0.14	0.1	<0.1	0.068	0.05	3.8	1.7	8.71	2730	0.11	0.01	0.3	0.8
H884866		13.10	1.04	0.16	0.1	<0.1	0.067	0.07	7.4	2.0	8.57	2910	0.09	0.01	0.4	1.5
H884867		21.1	0.65	0.23	<0.1	<1	0.051	0.05	7.9	1.0	6.19	1640	0.19	0.01	0.4	0.5
H884868		0.45	0.31	<0.05	<0.1	<0.01	<0.005	0.04	1.0	1.3	12.50	191	0.19	0.01	0.4	0.9
H884869		16.10	2.21	0.19	0.3	<1	0.038	0.30	4.4	2.4	7.11	1720	0.28	0.01	2.7	2.1
H884870		16.95	1.41	0.18	0.2	<1	0.070	0.16	13.4	2.0	7.87	2220	0.08	0.01	1.7	1.2
H884871		11.65	1.78	0.14	0.2	<0.1	0.063	0.20	6.4	2.4	8.79	2750	0.07	0.01	1.4	1.5
H884872		12.60	0.73	0.16	<0.1	<0.1	0.057	0.05	7.6	2.0	7.93	2460	0.15	0.01	0.3	<0.2
H884873		12.80	0.83	0.17	0.1	<0.1	0.065	0.06	4.6	1.7	8.35	2610	0.13	0.01	0.5	0.3
H884874		12.10	0.82	0.15	0.1	<0.1	0.077	0.05	5.0	2.1	8.77	3180	0.13	0.01	0.4	0.3
H884875		13.20	1.74	0.18	0.2	<0.1	0.080	0.07	7.6	2.7	8.04	2990	0.34	0.02	1.2	4.1
H884876		16.80	1.42	0.22	0.2	<0.1	0.058	0.08	7.2	2.2	6.70	2090	0.14	0.01	1.4	3.1
H884877		14.25	1.24	0.18	0.1	<0.1	0.063	0.07	8.0	2.4	7.54	2160	0.13	0.01	0.6	0.9
H884878		17.20	1.03	0.23	<0.1	<0.1	0.056	0.05	13.4	5.8	7.05	1860	0.10	0.01	0.4	1.7
H884879		17.25	2.77	0.29	0.1	<1	0.037	0.20	2.9	5.9	7.23	1780	0.07	<0.01	0.8	1.6
H884880		17.15	0.72	0.22	0.1	<1	0.067	0.04	4.9	1.8	7.31	1940	0.05	<0.01	0.5	2.3
H884881		29.1	0.89	0.30	0.1	<0.1	0.039	0.03	16.3	1.3	4.38	1090	0.10	<0.01	0.7	2.9
H884882		13.10	3.09	0.16	0.2	<0.1	0.559	0.16	6.3	2.6	8.05	4470	0.10	0.01	1.3	8.7
H884883		10.45	2.27	0.14	0.2	<0.1	0.377	0.13	3.6	2.5	8.97	4240	0.11	<0.01	0.7	5.7
H884884		9.18	1.02	0.12	0.1	<0.1	0.111	0.05	6.5	2.0	8.88	2950	<0.05	<0.01	0.5	1.1
H884885		9.46	1.18	0.15	0.1	<0.1	0.120	0.05	4.9	2.1	8.93	3080	<0.05	<0.01	0.5	1.7
H884886		0.40	0.32	0.08	<0.1	<0.01	0.009	0.04	0.9	1.2	12.50	194	0.15	<0.01	0.3	1.2
H884887		7.97	1.08	0.12	0.1	<0.01	0.085	0.06	5.7	2.4	9.22	3110	0.05	<0.01	0.5	1.2
H884888		7.49	0.76	0.09	0.1	<0.1	0.072	0.05	4.5	2.5	9.38	3030	<0.05	<0.01	0.4	1.1
H884889		8.17	0.85	0.11	0.1	<0.01	0.069	0.05	2.2	2.3	8.94	3250	0.11	<0.01	0.3	1.1
H884890		15.70	0.98	0.24	0.1	<0.1	0.098	0.06	35.1	1.9	6.81	2130	5.48	<0.01	0.5	7.7
H884891		9.12	0.55	0.11	0.1	<0.1	0.067	0.03	2.3	2.1	8.98	3250	0.07	<0.01	0.3	1.3
H884892		7.29	1.34	0.10	0.1	<0.1	0.054	0.05	4.5	2.3	9.90	3620	0.19	<0.01	0.7	7.4
H884893		1.79	0.47	0.05	<0.1	<0.01	<0.005	0.04	3.1	0.7	1.07	597	0.13	<0.01	0.9	3.0
H884894		0.75	2.31	<0.05	0.2	<0.01	0.008	0.08	3.2	1.7	0.92	236	0.09	0.36	1.0	5.9

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CERTIFICATE OF ANALYSIS VA09089514

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884859		20	5.1	3.5	<0.002	>10.0	8.04	0.7	9	0.7	14.8	<0.05	0.56	0.3	0.005	0.10
H884860		60	6.0	3.6	<0.002	>10.0	8.42	1.2	9	1.1	32.2	<0.05	0.75	1.5	<0.005	0.11
H884861		60	4.5	2.0	0.002	>10.0	8.79	0.4	9	0.2	48.7	<0.05	0.67	1.0	<0.005	0.04
H884862		80	2.9	3.8	0.003	>10.0	8.58	0.3	7	0.4	69.1	<0.05	1.08	1.9	<0.005	0.08
H884863		230	13.7	32.1	0.014	>10.0	4.33	1.8	7	3.0	86.7	0.20	0.20	0.7	0.094	0.27
H884864		160	3.2	12.7	0.002	>10.0	4.53	0.6	5	1.1	86.1	0.09	0.24	0.9	0.020	0.09
H884865		100	4.3	8.0	<0.002	>10.0	1.27	1.6	3	0.4	114.0	<0.05	0.08	<0.2	<0.005	0.04
H884866		80	4.7	13.5	0.003	>10.0	2.42	1.6	3	0.7	117.0	<0.05	0.14	<0.2	0.007	0.09
H884867		60	2.8	6.0	0.003	>10.0	1.74	0.4	4	0.3	78.0	<0.05	0.15	<0.2	0.005	0.09
H884868		240	2.6	1.9	<0.002	0.03	0.18	0.3	2	<0.2	53.8	<0.05	<0.05	<0.2	<0.005	<0.02
H884869		100	3.4	35.3	<0.002	>10.0	1.90	0.7	3	0.8	82.4	0.16	0.20	0.9	0.028	0.16
H884870		100	3.2	15.7	<0.002	>10.0	2.96	0.6	3	0.9	98.3	0.10	0.26	0.5	0.019	0.09
H884871		140	3.3	28.0	0.002	>10.0	1.47	0.7	3	0.7	111.0	0.07	0.09	0.3	0.017	0.18
H884872		80	6.1	10.1	0.002	>10.0	1.01	0.5	3	0.3	96.0	<0.05	0.12	<0.2	0.005	0.08
H884873		80	3.9	11.2	<0.002	>10.0	1.28	0.6	3	0.4	107.5	<0.05	0.13	0.2	0.006	0.08
H884874		100	3.6	8.8	0.002	>10.0	1.16	0.6	3	0.4	121.0	<0.05	0.06	<0.2	0.006	0.09
H884875		150	7.0	12.3	<0.002	>10.0	2.52	0.6	3	0.8	99.3	0.07	0.21	0.3	0.016	0.11
H884876		90	3.5	17.3	<0.002	>10.0	2.11	0.4	4	0.7	91.1	0.08	0.17	0.3	0.013	0.14
H884877		90	4.1	15.8	0.002	>10.0	2.17	0.4	4	0.5	93.0	<0.05	0.15	0.2	0.007	0.14
H884878		70	6.1	11.7	<0.002	>10.0	3.46	0.6	4	0.4	76.6	<0.05	0.32	0.2	0.005	0.10
H884879		120	6.5	34.5	<0.002	>10.0	5.96	1.6	7	1.0	64.0	<0.05	0.60	0.2	0.013	0.26
H884880		70	5.2	6.5	0.003	>10.0	6.20	0.5	5	0.4	83.5	<0.05	0.81	<0.2	0.008	0.09
H884881		90	5.5	3.9	0.003	>10.0	5.13	0.5	7	0.5	43.0	<0.05	0.95	0.2	0.010	0.12
H884882		140	21.7	24.9	0.002	>10.0	4.55	1.0	3	8.1	62.1	0.07	0.20	0.3	0.029	0.15
H884883		130	29.9	17.6	<0.002	>10.0	7.58	0.9	3	7.5	82.6	<0.05	0.16	0.2	0.017	0.11
H884884		120	8.3	6.9	<0.002	7.94	7.89	0.4	3	1.5	106.5	<0.05	0.25	<0.2	0.008	0.07
H884885		120	11.0	7.4	0.002	8.48	7.35	0.4	3	2.0	107.5	<0.05	0.26	<0.2	0.009	0.09
H884886		390	2.0	1.6	<0.002	0.03	0.13	0.3	2	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	<0.02
H884887		120	5.3	8.7	<0.002	6.50	6.80	0.5	3	0.9	115.0	<0.05	0.20	<0.2	0.010	0.10
H884888		130	4.0	6.4	<0.002	5.62	4.26	0.5	3	0.3	118.5	<0.05	0.13	<0.2	0.006	0.06
H884889		150	2.9	6.1	<0.002	6.70	2.38	0.4	3	0.3	116.5	<0.05	0.17	<0.2	0.007	0.06
H884890		110	16.0	6.7	0.005	>10.0	21.7	0.4	5	1.2	82.6	<0.05	0.91	0.6	0.008	0.11
H884891		80	3.8	3.9	0.003	7.26	2.64	0.3	2	0.3	103.0	<0.05	0.07	<0.2	<0.005	0.09
H884892		210	233	7.4	<0.002	4.48	4.88	1.1	3	0.7	84.5	<0.05	0.14	<0.2	0.017	0.14
H884893		140	4.8	2.0	<0.002	0.41	0.30	0.4	3	<0.2	110.0	0.05	<0.05	0.2	0.012	0.03
H884894		140	1.4	2.5	<0.002	0.22	0.25	2.7	3	0.2	133.5	0.06	<0.05	0.3	0.061	0.02

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089514

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H884859		1.4	2	80.4	1.8	14	1.4	
H884860		0.3	4	293	5.3	10	1.0	
H884861		0.5	3	106.5	6.8	7	0.8	
H884862		0.5	5	301	6.6	9	1.1	2.42
H884863		0.5	16	62.1	7.9	34	10.2	
H884864		1.1	8	210	7.9	14	7.2	
H884865		0.2	7	16.7	12.8	16	2.2	
H884866		0.3	7	288	12.6	20	4.3	
H884867		0.2	5	306	7.9	15	1.9	
H884868		0.6	1	0.8	1.1	15	0.6	
H884869		0.5	8	118.5	8.6	14	11.1	
H884870		0.6	6	113.0	9.1	15	6.7	1.65
H884871		0.4	6	195.0	9.0	18	6.9	
H884872		0.1	3	220	8.3	13	2.1	
H884873		0.2	4	104.0	8.9	16	3.6	
H884874		0.2	4	206	9.2	18	3.0	
H884875		0.3	5	121.5	9.5	18	8.2	
H884876		0.3	4	151.5	7.3	11	6.1	
H884877		0.2	3	276	8.2	22	3.0	
H884878		0.5	4	67.5	7.8	16	1.9	
H884879		0.1	8	520	6.8	13	5.2	
H884880		0.1	5	255	6.8	9	3.0	1.92
H884881		0.4	5	278	5.9	5	3.1	1.23
H884882		0.4	8	222	8.3	324	9.5	
H884883		0.3	4	149.0	8.6	151	6.0	
H884884		0.3	4	83.5	6.3	46	3.2	2.47
H884885		0.2	4	184.0	6.6	46	3.6	1.88
H884886		0.5	1	0.3	1.1	18	0.5	
H884887		0.3	5	74.0	7.5	21	3.5	1.36
H884888		0.4	3	78.3	7.6	12	3.9	1.29
H884889		0.4	3	77.4	6.1	14	2.8	1.06
H884890		0.7	5	189.0	7.4	125	3.1	2.72
H884891		0.2	2	359	6.3	13	2.1	1.18
H884892		0.4	6	26.3	12.7	858	4.7	
H884893		0.1	2	0.6	5.3	71	2.1	
H884894		0.1	17	0.7	6.5	18	7.5	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089514

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE VA09089513

Project: RAU

P.O. No.: Batch 33

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 18-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089513

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884751		5.40	<0.01	0.01	9.63	2.3	2090	3.39	0.04	0.67	<0.02	157.5	18.8	168	17.10	6.8
H884752		5.70	<0.01	<0.01	9.89	2.0	2020	4.20	0.04	0.73	<0.02	222	16.7	126	12.05	5.7
H884753		5.74	0.01	0.07	9.41	3.2	2290	3.63	0.07	1.16	<0.02	175.0	23.5	227	13.35	191.0
H884754		5.38	<0.01	<0.01	9.57	1.8	2330	3.32	0.03	1.27	<0.02	195.0	20.9	110	16.10	9.4
H884755		5.04	<0.01	<0.01	9.45	2.1	2360	3.47	0.10	1.56	0.09	193.5	31.2	118	25.5	23.0
H884756		4.74	<0.01	0.01	8.16	21.9	150	2.94	0.92	3.00	0.04	146.5	27.3	144	6.16	18.0
H884757		4.66	<0.01	0.10	6.52	39.4	230	2.13	58.4	2.35	<0.02	69.2	40.0	103	23.2	37.4
H884758		4.62	<0.01	<0.01	8.05	27.5	1560	3.07	0.68	2.82	<0.02	150.0	18.5	124	25.3	35.4
H884759		2.18	0.02	<0.01	7.81	69.3	1690	3.76	0.45	2.64	<0.02	169.5	26.5	143	18.40	3.7
H884760		4.50	0.33	0.35	0.48	1060	80	0.35	1215	10.10	0.08	19.40	9.8	3	2.13	11.5
H884761		0.26	5.56	0.19	0.12	>10000	30	<0.05	461	8.61	0.05	36.2	1.8	12	0.78	43.0
H884762		4.46	0.02	<0.01	7.99	111.0	500	3.14	3.72	1.00	<0.02	131.5	11.8	140	9.65	5.6
H884763		3.36	0.30	0.05	4.29	166.0	90	1.11	17.30	1.50	0.09	110.5	10.9	55	4.03	8.5
H884764		10.26	<0.01	0.35	0.85	160	60	0.38	3.80	17.50	2.05	8.81	2.4	12	1.69	5.0
H884765		4.98	<0.01	0.43	0.88	171	50	0.38	3.42	17.75	2.65	9.31	2.5	13	1.87	5.5
H884766		7.68	<0.01	0.12	0.97	60	180	0.52	11.15	19.05	0.51	10.70	5.0	15	3.88	4.4
H884767		7.16	0.01	0.66	0.72	944	110	0.35	3.51	17.15	2.44	9.72	4.8	11	1.55	4.7
H884768		5.56	<0.01	0.36	0.30	207	50	0.22	0.34	36.6	1.00	5.95	1.5	6	0.20	39.3
H884769		4.68	4.66	0.24	0.07	1240	20	0.13	162.5	11.70	1.49	11.45	0.8	3	0.40	5.3
H884770		6.02	6.95	0.13	0.40	1100	70	0.28	255	9.83	0.04	6.40	2.4	4	1.87	7.1
H884771		5.52	0.69	0.08	0.09	611	20	0.10	68.3	9.69	0.02	14.85	0.7	4	0.77	5.1
H884772		5.38	0.15	0.10	0.06	597	10	0.05	112.0	13.95	0.07	32.7	0.6	<1	0.69	5.2
H884773		5.58	14.05	0.21	0.05	588	10	<0.05	195.5	14.50	0.14	46.5	0.7	<1	0.64	4.9
H884774		4.12	<0.01	0.03	0.08	<5	30	0.10	0.34	19.50	0.05	1.54	1.0	1	0.19	1.4
H884775		5.02	0.04	0.10	0.10	69	10	0.09	10.20	11.85	0.09	8.02	0.6	5	1.57	6.0
H884776		5.38	2.27	0.32	0.07	278	20	0.07	37.4	16.00	0.09	15.55	0.6	1	1.25	4.0
H884777		4.76	3.77	0.13	0.07	521	20	<0.05	116.5	14.75	0.07	10.55	0.8	1	1.03	4.9
H884778		3.08	0.36	0.25	5.38	124	140	1.95	31.3	10.70	0.70	85.9	16.5	73	21.7	12.2
H884779		0.26	0.47	0.79	0.80	5880	100	0.30	101.0	12.70	0.14	34.9	6.3	15	2.00	33.2
H884780		5.72	2.52	1.82	0.34	581	30	<0.05	57.9	14.75	4.15	11.15	1.7	4	1.38	7.0
H884781		5.58	3.26	0.34	0.05	358	10	0.08	89.5	14.60	0.27	4.93	0.7	3	0.55	3.5
H884782		5.66	0.10	0.05	0.07	133	20	0.10	6.52	17.00	0.05	3.76	0.6	2	0.71	2.0
H884783		6.06	7.97	0.19	0.14	542	40	0.07	154.5	14.15	0.05	4.34	0.9	1	1.38	6.9
H884784		3.78	0.01	0.04	0.11	<5	20	0.11	0.32	19.25	0.05	1.70	1.1	1	0.23	1.5
H884785		5.50	0.20	0.10	0.26	143	90	0.17	15.90	18.65	0.03	4.57	1.2	6	1.06	3.3
H884786		6.02	0.05	0.07	0.12	336	50	0.09	13.45	15.20	0.07	5.24	0.7	2	0.46	2.2

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Project: RAU

Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089513

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884751		9.33	26.8	0.24	0.5	<0.01	0.087	3.30	81.9	35.0	1.07	275	1.49	0.20	116.5	98.4
H884752		9.84	30.1	0.25	0.7	<0.01	0.092	3.22	83.5	32.6	0.94	237	1.25	0.12	141.0	74.9
H884753		8.40	28.8	0.25	0.9	<0.01	0.098	3.31	82.6	38.5	1.20	489	0.91	0.19	110.5	89.0
H884754		9.55	26.8	0.27	0.7	<0.01	0.150	3.46	95.9	36.3	1.22	503	1.44	0.16	134.5	64.5
H884755		8.34	27.6	0.25	1.1	<0.01	0.099	3.64	92.8	48.3	1.39	395	1.77	0.08	122.0	57.0
H884756		6.19	25.9	0.25	0.9	<0.01	0.095	4.55	60.8	38.4	0.92	206	2.89	0.06	60.4	51.6
H884757		7.25	20.0	0.18	2.9	<0.01	0.040	3.85	30.5	28.5	2.34	204	2.13	0.04	44.6	55.5
H884758		4.05	26.8	0.21	1.2	<0.01	0.080	3.97	68.9	50.9	1.89	293	0.81	0.09	92.1	27.2
H884759		2.49	30.1	0.22	1.5	<0.01	0.066	3.46	81.6	58.4	1.70	296	1.93	0.08	75.5	34.7
H884760		19.35	3.27	0.44	0.3	<0.1	0.056	0.27	10.9	5.1	5.77	1600	0.87	0.01	3.0	13.1
H884761		22.9	1.21	0.40	0.1	<0.1	0.090	0.07	24.1	1.4	4.68	1400	10.80	<0.01	1.4	11.9
H884762		3.65	32.1	0.22	1.0	<0.01	0.074	4.59	70.6	57.3	1.24	81	0.84	0.10	84.5	25.7
H884763		9.91	17.65	0.27	1.3	<0.01	0.052	2.16	62.8	38.2	0.74	108	0.89	0.04	35.1	32.9
H884764		2.44	4.98	0.08	0.6	<0.01	0.040	0.20	5.0	3.8	10.95	1840	0.22	0.05	4.7	3.2
H884765		2.63	5.19	0.07	0.7	<0.01	0.061	0.18	5.1	4.0	11.10	2080	0.21	0.05	5.1	3.7
H884766		1.81	3.65	0.06	0.7	<0.01	0.035	0.49	7.9	6.6	11.45	1660	0.27	0.01	5.7	8.5
H884767		5.80	2.55	0.09	0.5	0.01	0.050	0.27	6.9	5.1	10.80	2810	0.73	0.01	3.3	8.2
H884768		1.18	0.92	0.06	0.1	<0.01	0.019	0.11	5.5	2.0	0.37	539	0.17	<0.01	1.7	0.7
H884769		15.70	0.76	0.24	<0.1	0.03	0.090	0.02	5.9	2.6	5.42	1880	0.40	0.01	0.4	0.9
H884770		17.35	2.51	0.22	0.3	0.03	0.038	0.15	2.8	3.8	5.59	893	0.20	0.01	3.0	3.8
H884771		9.97	0.77	0.16	<0.1	<0.01	0.023	0.04	8.7	2.2	5.22	823	0.27	0.01	0.4	0.4
H884772		12.50	0.81	0.25	<0.1	<0.01	0.066	0.03	19.8	2.2	8.09	2200	0.10	0.01	0.2	<0.2
H884773		12.20	1.23	0.42	<0.1	0.04	0.098	0.03	28.5	2.5	7.90	2850	<0.05	0.01	0.2	<0.2
H884774		0.42	0.26	<0.05	<0.1	<0.01	0.007	0.03	0.8	1.4	12.90	191	0.06	0.01	0.3	<0.2
H884775		4.61	1.11	0.08	<0.1	<0.01	0.068	0.07	3.4	2.5	6.27	1970	0.17	0.01	0.3	<0.2
H884776		8.36	0.93	0.16	<0.1	<0.01	0.148	0.05	7.2	2.7	8.92	3510	0.14	0.01	0.3	<0.2
H884777		10.65	1.24	0.23	<0.1	<0.01	0.062	0.04	4.9	2.8	8.27	2540	<0.05	0.01	0.2	1.5
H884778		5.16	19.90	0.17	1.9	<0.01	0.044	2.68	47.2	27.5	5.37	537	0.58	0.08	44.4	30.1
H884779		14.40	4.04	0.21	0.2	<0.01	0.078	0.39	19.9	4.8	6.63	2000	15.80	0.02	4.2	20.4
H884780		10.60	2.20	0.16	0.3	0.01	0.042	0.15	6.5	2.9	8.83	1250	0.12	0.01	1.9	1.9
H884781		7.36	0.50	0.13	<0.1	<0.01	0.051	0.03	2.3	2.3	8.54	1360	0.10	0.01	0.1	0.5
H884782		2.99	0.42	0.08	<0.1	<0.01	0.022	0.04	2.6	2.7	11.00	543	0.06	0.01	0.4	<0.2
H884783		12.70	1.00	0.22	0.1	<0.01	0.036	0.10	2.5	3.3	8.45	826	0.16	0.01	0.8	1.1
H884784		0.42	0.35	<0.05	<0.1	<0.01	0.006	0.05	0.9	1.4	12.70	185	<0.05	0.01	0.5	<0.2
H884785		4.31	1.44	0.09	0.2	<0.01	0.016	0.14	3.0	5.4	11.35	726	0.10	0.01	2.6	1.5
H884786		6.38	0.81	0.13	0.1	<0.01	0.100	0.06	2.2	2.9	8.79	1920	0.27	0.01	0.5	<0.2

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

Project: RAU

Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089513

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884751		2140	24.9	115.0	<0.002	0.05	0.87	22.9	3	3.0	78.1	6.05	<0.05	13.0	1.480	1.00
H884752		2910	11.6	113.0	<0.002	0.02	0.95	20.3	3	4.0	92.9	7.47	<0.05	18.9	1.415	0.80
H884753		2330	4.4	114.5	<0.002	0.19	0.83	24.5	3	3.7	122.5	5.80	<0.05	13.2	1.550	0.95
H884754		4270	3.5	126.0	<0.002	0.04	0.70	16.0	3	4.5	138.5	7.23	<0.05	13.7	1.355	1.15
H884755		3610	3.8	138.0	<0.002	0.43	0.51	18.4	3	3.9	109.0	6.57	<0.05	13.6	1.450	1.43
H884756		3680	2.8	134.5	<0.002	5.45	1.08	19.8	3	4.0	58.4	3.14	0.05	9.2	0.857	0.78
H884757		1540	2.3	284	<0.002	5.39	0.88	13.8	4	7.8	33.5	2.38	0.19	8.0	0.527	1.65
H884758		3300	1.4	146.0	<0.002	1.61	0.32	17.6	3	6.5	49.5	4.92	0.06	12.2	1.010	1.76
H884759		1320	3.7	141.0	<0.002	1.26	0.55	17.2	3	12.1	38.9	4.15	<0.05	13.6	0.908	1.12
H884760		210	8.2	17.6	<0.002	>10.0	8.24	2.5	7	1.4	72.7	0.17	0.47	1.5	0.041	0.21
H884761		80	6.6	7.4	0.004	>10.0	24.4	0.4	9	2.1	58.2	0.08	1.62	0.3	0.008	0.17
H884762		1050	2.1	204	<0.002	3.57	0.59	16.3	2	6.9	25.8	5.05	0.06	19.4	0.902	0.92
H884763		3300	7.1	109.0	<0.002	>10.0	3.93	4.8	2	4.1	17.3	2.25	0.13	12.3	0.254	0.50
H884764		260	45.2	29.0	<0.002	0.22	0.80	2.0	3	2.2	64.2	0.28	0.10	0.7	0.105	0.18
H884765		260	54.4	30.1	<0.002	0.23	0.85	2.2	4	2.7	68.6	0.31	0.07	0.7	0.110	0.19
H884766		280	12.3	51.5	<0.002	0.23	0.88	2.5	3	2.5	64.2	0.34	0.08	1.0	0.127	0.48
H884767		200	24.3	19.8	<0.002	0.03	1.75	1.9	3	1.7	51.7	0.20	0.06	0.7	0.069	0.36
H884768		120	9.3	4.4	<0.002	0.02	0.79	0.9	3	3.5	154.0	0.10	<0.05	0.3	0.037	0.04
H884769		60	46.3	2.1	<0.002	>10.0	14.20	0.7	6	0.2	68.5	<0.05	0.14	<0.2	0.006	0.28
H884770		230	3.4	23.3	<0.002	>10.0	11.45	0.8	6	0.6	42.2	0.16	0.24	0.4	0.030	0.40
H884771		120	2.3	7.2	<0.002	>10.0	1.78	0.6	4	0.2	42.8	<0.05	0.12	0.3	0.005	0.19
H884772		100	4.1	6.1	<0.002	>10.0	2.91	1.3	5	0.3	89.3	<0.05	0.17	0.3	<0.005	0.06
H884773		80	5.7	3.8	0.008	>10.0	5.91	1.9	5	0.9	103.0	<0.05	<0.05	1.3	<0.005	0.14
H884774		240	1.4	1.3	<0.002	0.03	0.07	0.3	2	<0.2	50.7	<0.05	<0.05	<0.2	<0.005	<0.02
H884775		100	5.4	11.4	<0.002	3.24	1.17	1.7	3	1.2	65.8	<0.05	0.05	<0.2	0.007	0.09
H884776		100	4.1	6.9	<0.002	7.58	2.25	2.2	4	0.6	108.5	<0.05	0.10	0.2	0.005	0.09
H884777		60	6.0	6.9	0.020	>10.0	5.19	2.3	5	0.4	97.8	<0.05	<0.05	0.2	<0.005	0.33
H884778		1440	63.4	306	<0.002	5.49	4.39	8.3	3	4.2	52.3	2.43	0.23	7.8	0.489	1.97
H884779		240	13.8	31.4	0.014	>10.0	4.44	2.0	7	3.1	84.9	0.24	0.20	0.8	0.105	0.26
H884780		150	264	21.1	0.017	>10.0	4.38	1.1	6	0.5	69.7	0.06	<0.05	0.7	0.025	0.53
H884781		40	12.9	4.8	<0.002	8.10	3.31	0.9	4	0.3	63.7	<0.05	0.15	<0.2	<0.005	0.07
H884782		70	2.0	6.5	<0.002	3.44	0.63	0.3	2	0.2	47.0	<0.05	<0.05	<0.2	0.006	0.05
H884783		90	3.7	13.4	<0.002	>10.0	11.95	0.8	11	0.2	54.5	<0.05	0.11	0.2	0.009	0.12
H884784		260	1.3	1.6	<0.002	0.03	0.07	0.3	2	<0.2	50.7	<0.05	<0.05	<0.2	0.005	<0.02
H884785		110	2.6	6.8	<0.002	4.96	2.51	0.6	5	0.3	54.1	0.14	0.07	0.3	0.031	0.08
H884786		70	3.1	3.0	<0.002	6.55	0.98	1.0	3	0.3	85.9	<0.05	0.05	<0.2	0.006	0.03

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

Project: RAU

Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089513

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H884751		0.5	176	1.2	25.6	81	19.3	
H884752		0.9	149	1.5	34.5	72	29.8	
H884753		0.9	200	1.1	27.2	82	37.2	
H884754		0.8	136	1.0	33.3	73	30.5	
H884755		0.8	184	1.3	32.1	107	47.4	
H884756		0.7	183	1.8	23.7	25	39.2	
H884757		2.9	105	3.5	18.2	14	129.0	
H884758		0.7	147	4.1	27.2	17	48.2	
H884759		1.0	132	13.3	24.8	11	58.3	
H884760		0.3	13	9.0	9.1	12	10.3	
H884761		0.5	6	37.9	4.7	10	5.8	3.94
H884762		0.9	132	11.5	23.7	13	38.2	
H884763		1.3	56	5.5	16.7	23	47.0	
H884764		0.7	17	4.6	7.0	534	25.4	
H884765		0.7	18	4.6	7.8	588	27.3	
H884766		0.9	23	3.1	8.2	235	25.0	
H884767		0.9	17	17.9	8.1	658	20.2	
H884768		0.4	5	8.5	5.8	135	6.3	
H884769		0.1	8	7.0	8.5	430	2.1	
H884770		0.4	15	23.3	5.1	9	9.5	
H884771		0.1	7	1.6	5.8	10	2.1	
H884772		0.2	12	2.0	10.4	17	0.8	
H884773		0.2	12	1110	11.3	35	1.0	
H884774		0.6	1	1.0	1.0	14	<0.5	
H884775		0.1	11	2.6	8.7	19	1.8	
H884776		0.1	14	2.9	12.3	25	1.4	
H884777		0.1	10	3200	8.4	23	1.1	
H884778		1.9	85	23.8	13.6	227	81.1	
H884779		0.4	17	65.4	7.3	31	7.7	
H884780		0.3	9	3190	5.6	953	6.9	
H884781		0.1	7	21.1	4.0	96	0.9	
H884782		0.1	4	36.9	2.4	10	1.6	
H884783		0.1	9	1.2	3.3	8	4.0	
H884784		0.5	2	0.5	1.1	13	0.8	
H884785		0.3	8	1.3	3.1	8	10.3	
H884786		0.1	10	22.6	6.3	14	2.6	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089513

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE VA09089512

Project: RAU

P.O. No.: Batch 35

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 18-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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Project: RAU

Finalized Date: 11-SEP-2009
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CERTIFICATE OF ANALYSIS VA09089512

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884823		6.90	10.55	0.54	0.34	>10000	830	0.15	684	0.65	0.40	16.30	1.6	<1	0.15	14.3
H884824		0.32	2.76	0.87	0.13	5140	170	<0.05	765	0.17	0.03	7.69	0.4	6	0.12	9.1
H884825		0.56	0.24	11.45	0.14	2980	110	<0.05	142.0	0.17	0.08	7.78	0.7	12	0.38	18.2
H884826		6.36	0.38	0.14	2.50	8840	540	0.68	62.0	4.59	0.09	18.35	3.0	12	18.30	7.7
H884827		8.80	0.21	0.42	0.88	3610	450	0.35	23.3	12.30	0.05	12.55	2.7	9	6.69	8.8
H884828		0.28	0.47	0.90	0.87	6390	40	0.22	104.0	13.85	0.14	35.2	5.8	15	2.00	34.0
H884829		6.80	0.10	0.12	0.41	2490	240	0.17	31.5	15.00	0.06	10.50	1.6	5	1.53	4.2
H884830		5.40	0.28	0.18	0.96	3480	500	0.47	12.70	12.95	0.09	14.60	1.9	7	3.55	4.7
H884831		0.46	0.22	0.10	0.38	4590	310	0.21	10.70	16.20	0.11	11.35	1.0	5	1.48	3.4
H884832		1.50	0.08	0.05	0.11	1620	260	<0.05	8.51	3.38	0.06	23.7	0.6	8	0.38	3.6
H884833		1.16	0.51	0.16	0.24	>10000	440	0.11	959	0.94	0.22	71.9	3.1	1	0.09	5.0
H884834		3.58	12.75	0.27	0.15	>10000	1730	0.29	388	1.97	0.42	37.1	1.6	1	1.06	6.4
H884835		2.94	2.86	0.22	0.14	>10000	1640	0.12	463	0.76	0.21	24.7	1.8	<1	0.11	3.6
H884836		0.20	10.05	0.37	0.56	>10000	1260	0.20	1650	1.34	0.13	16.25	1.9	4	1.18	4.4
H884837		0.62	3.17	1.62	0.35	>10000	980	0.38	503	1.65	0.19	19.40	1.4	13	0.93	9.7
H884838		2.24	8.69	0.37	0.62	>10000	1660	0.43	354	1.70	0.36	17.35	2.7	6	0.46	7.5
H884839		3.18	0.06	0.01	0.08	125	30	0.12	1.00	22.0	0.04	1.49	0.7	1	0.15	2.2
H884840		4.14	10.25	0.18	0.53	>10000	760	0.22	1320	1.31	0.40	18.60	2.0	3	0.63	14.8
H884841		5.58	33.5	0.44	0.55	>10000	700	0.35	1940	0.91	0.32	65.1	2.2	4	0.45	12.4
H884842		7.62	6.92	0.30	0.23	>10000	690	<0.05	1190	0.92	0.56	212	2.3	<1	0.30	5.3
H884843		4.12	0.13	0.01	0.08	171	20	0.06	8.33	21.6	0.06	1.65	0.8	1	0.18	1.8
H884844		3.80	12.95	0.38	0.15	>10000	410	0.60	1250	0.75	1.44	94.6	2.6	<1	0.12	5.3
H884845		5.36	0.04	0.03	2.16	66	460	0.78	1.56	27.9	0.09	31.4	5.6	18	2.31	4.7
H884846		5.58	0.02	0.07	1.68	66	320	0.50	0.68	29.6	0.13	36.9	16.5	40	1.37	13.4
H884847		5.64	0.01	<0.01	9.18	16.0	1440	2.18	0.63	8.26	0.06	67.6	42.3	311	12.90	99.2
H884848		4.26	0.04	<0.01	11.40	14.5	2470	3.64	0.37	1.18	0.05	191.5	20.5	128	28.7	25.7
H884849		4.44	0.03	<0.01	11.30	9.4	2290	3.58	0.45	2.34	<0.02	210	13.1	47	18.45	13.8
H884850		2.14	0.07	<0.01	10.95	8.1	2300	3.65	0.34	2.24	<0.02	194.5	11.5	47	16.05	9.3
H884851		4.32	0.07	<0.01	9.38	94.0	30	2.84	4.26	1.74	0.02	136.5	27.5	82	6.28	20.8
H884852		5.40	0.73	0.32	0.81	3100	70	0.31	273	9.00	0.05	13.25	2.2	7	8.60	8.1
H884853		6.08	1.14	0.17	0.30	2020	30	0.10	349	8.77	0.02	5.58	0.6	4	2.86	8.7
H884854		4.98	0.38	0.19	0.39	2030	30	0.10	190.5	7.70	0.03	4.80	0.8	5	2.73	7.6
H884855		5.76	0.18	0.12	0.33	1050	20	0.11	121.5	13.05	0.04	6.28	0.9	4	3.39	4.6
H884856		0.28	5.55	0.18	0.12	>10000	30	0.05	470	8.78	0.06	33.8	1.5	13	0.73	42.8
H884857		4.18	2.47	0.28	0.27	3500	30	<0.05	862	3.59	0.04	2.51	0.5	6	0.92	10.7
H884858		3.66	0.87	0.09	0.05	>10000	10	<0.05	326	6.59	0.04	2.13	0.4	2	0.33	3.6

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089512

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884823		40.8	2.44	0.64	0.3	0.06	0.092	0.02	8.4	1.3	2.35	1510	1.19	0.01	0.6	7.2
H884824		8.82	1.36	0.12	0.2	0.01	0.008	0.03	4.2	1.3	12.20	296	0.36	0.03	0.5	4.6
H884825		5.91	0.75	0.07	0.1	0.01	0.012	0.02	4.3	1.6	1.57	385	0.54	0.02	0.5	6.1
H884826		16.35	13.05	0.20	2.1	<0.01	0.044	1.31	8.4	13.5	8.32	1360	0.42	0.04	17.8	18.9
H884827		9.42	4.86	0.13	0.6	<0.01	0.025	0.47	6.3	5.2	8.48	1680	0.26	0.02	4.3	9.0
H884828		15.80	3.74	0.20	0.2	<0.01	0.073	0.43	19.8	4.4	7.25	2160	15.90	0.02	1.8	23.1
H884829		7.90	2.31	0.10	0.3	<0.01	0.024	0.12	5.6	3.5	11.10	1900	0.25	0.02	1.1	6.9
H884830		10.85	5.39	0.13	0.5	<0.01	0.034	0.29	8.2	5.7	9.67	1980	0.41	0.02	1.9	8.2
H884831		7.38	2.02	0.11	0.3	<0.01	0.020	0.12	7.0	3.7	11.15	1800	0.25	0.02	1.1	5.7
H884832		5.50	0.89	0.09	0.1	<0.01	0.032	0.02	13.8	1.8	2.36	1820	0.35	0.02	0.3	3.6
H884833		32.2	2.37	0.48	0.3	<0.01	0.064	0.01	43.9	<0.2	6.61	2400	1.12	0.01	0.5	10.4
H884834		44.2	1.96	0.85	0.2	0.02	0.147	0.14	20.4	<0.2	0.65	3060	1.66	0.03	1.4	5.8
H884835		42.9	1.00	0.52	0.1	0.01	0.100	0.06	11.6	1.7	4.23	4210	1.01	0.02	0.3	7.0
H884836		>50	4.18	1.03	0.6	0.01	0.138	0.29	7.5	<0.2	0.21	4170	1.51	0.03	0.6	7.2
H884837		34.7	2.55	0.46	0.3	<0.01	0.110	0.13	9.4	<0.2	1.23	3420	2.31	0.02	0.5	7.2
H884838		47.3	5.32	0.82	0.4	0.01	0.162	0.32	8.2	<0.2	0.23	2880	1.49	0.03	1.1	11.7
H884839		0.55	0.26	<0.05	<0.1	<0.01	<0.005	0.04	0.7	1.3	13.75	203	0.06	0.01	0.3	2.5
H884840		49.5	3.50	0.74	0.2	0.01	0.199	0.25	7.9	<0.2	0.13	2110	1.24	0.02	0.9	7.7
H884841		>50	4.32	0.80	0.6	0.03	0.209	0.21	36.6	<0.2	0.29	5660	1.10	0.02	1.5	10.1
H884842		49.0	2.67	0.85	0.2	0.01	0.177	0.04	129.0	<0.2	1.08	8140	0.87	0.01	0.9	9.0
H884843		0.67	0.26	<0.05	<0.1	<0.01	<0.005	0.04	0.8	1.2	13.30	228	0.17	<0.01	0.3	2.5
H884844		48.2	1.53	0.84	0.1	0.01	0.192	0.02	54.6	<0.2	2.03	4280	0.89	0.01	0.3	8.2
H884845		1.74	5.65	0.06	0.7	<0.01	0.033	1.07	16.8	7.9	2.80	497	0.79	0.03	11.5	15.6
H884846		2.37	4.58	0.09	1.0	<0.01	0.032	0.85	17.8	4.4	1.77	1640	0.71	0.02	10.4	31.7
H884847		5.55	25.5	0.17	1.2	<0.01	0.098	4.96	33.5	30.9	1.47	1130	1.20	0.14	23.3	133.0
H884848		9.03	31.1	0.23	0.8	<0.01	0.110	5.31	105.5	45.3	1.15	431	1.52	0.13	137.0	83.8
H884849		6.00	33.5	0.25	0.7	<0.01	0.093	4.87	115.5	38.1	1.42	343	2.47	0.11	115.5	41.3
H884850		5.79	32.8	0.25	0.7	<0.01	0.093	5.08	106.0	36.9	1.38	329	3.17	0.11	110.5	39.2
H884851		10.70	26.7	0.26	0.8	<0.01	0.073	4.76	64.8	32.1	0.99	82	1.29	0.08	42.9	47.4
H884852		19.55	3.39	0.28	0.3	<0.01	0.027	0.61	7.9	5.1	4.90	526	0.45	<0.01	5.1	6.6
H884853		19.75	1.42	0.26	0.1	<0.01	0.013	0.19	2.8	2.7	4.83	545	0.19	0.01	2.0	1.8
H884854		26.5	2.18	0.38	0.2	<0.01	0.019	0.22	2.3	1.9	4.31	863	0.22	0.02	2.7	3.2
H884855		12.60	1.94	0.21	0.2	<0.01	0.030	0.24	3.3	2.5	7.65	1140	0.13	0.01	2.4	3.2
H884856		23.3	1.17	0.38	0.1	<0.01	0.070	0.07	22.0	1.2	4.81	1440	11.25	0.01	1.3	13.4
H884857		24.3	1.87	0.43	0.2	<0.01	0.016	0.14	1.1	1.3	1.85	433	0.43	0.01	1.8	2.4
H884858		28.4	0.40	0.25	<0.1	<0.01	0.038	0.03	0.8	0.7	3.95	875	0.10	0.01	0.3	1.2

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089512

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884823		220	10.7	1.6	0.003	0.08	22.5	2.2	8	0.9	14.4	<0.05	1.38	0.4	0.016	0.58
H884824		70	8.3	1.6	0.002	0.02	12.50	1.3	4	0.9	5.5	<0.05	0.69	0.2	0.013	0.15
H884825		60	3.5	2.6	<0.002	0.02	3.59	0.7	3	0.3	6.7	<0.05	0.23	0.3	0.007	0.13
H884826		350	2.2	235	<0.002	0.37	2.06	3.5	4	2.9	43.2	1.26	0.19	7.3	0.144	1.71
H884827		300	2.7	60.0	<0.002	0.04	1.28	1.7	3	1.0	49.9	0.26	0.05	1.6	0.054	0.61
H884828		240	14.5	29.9	0.015	>10.0	4.61	1.7	6	3.1	89.2	0.11	0.23	0.8	0.050	0.29
H884829		210	2.9	12.4	<0.002	0.03	1.26	1.2	2	0.5	50.1	0.07	0.09	0.7	0.018	0.24
H884830		290	3.6	23.1	<0.002	0.02	1.48	1.6	2	0.8	39.7	0.11	0.05	1.0	0.031	0.56
H884831		160	4.2	10.6	<0.002	0.02	1.62	1.2	2	0.4	49.2	0.06	0.11	0.6	0.015	0.26
H884832		70	3.7	1.1	<0.002	0.01	0.92	1.0	1	0.3	16.5	<0.05	<0.05	0.3	0.005	0.07
H884833		340	23.6	0.9	0.011	0.06	15.35	1.6	5	1.6	6.8	<0.05	0.92	0.7	0.010	0.23
H884834		220	9.8	23.0	0.004	0.20	32.2	1.1	4	1.6	80.9	<0.05	0.73	0.3	0.006	0.25
H884835		160	8.4	7.2	<0.002	0.17	18.00	1.1	6	0.4	45.4	<0.05	1.05	<0.2	<0.005	0.18
H884836		240	15.8	21.5	0.004	0.33	32.8	0.6	9	3.5	92.4	<0.05	2.19	0.5	0.013	0.45
H884837		220	9.8	9.9	0.008	0.11	15.50	0.6	7	3.4	28.8	<0.05	0.92	0.4	0.010	0.29
H884838		270	9.3	15.4	0.003	0.28	24.5	1.1	6	3.9	89.0	0.05	0.57	0.3	0.016	0.46
H884839		240	1.4	1.2	<0.002	0.01	0.09	0.2	1	<0.2	60.4	<0.05	<0.05	<0.2	<0.005	<0.02
H884840		260	9.8	15.8	0.004	0.38	31.3	1.2	7	4.3	192.0	<0.05	0.75	0.4	0.009	0.40
H884841		420	20.2	9.5	0.008	0.15	38.9	0.7	5	3.9	42.0	0.06	1.16	0.4	0.015	0.36
H884842		440	10.9	4.2	0.008	0.08	22.2	0.8	9	3.6	23.4	<0.05	1.26	1.1	0.008	0.28
H884843		260	1.5	1.3	<0.002	0.01	0.26	0.2	1	<0.2	58.9	<0.05	<0.05	<0.2	<0.005	<0.02
H884844		330	11.7	1.4	<0.002	0.07	25.8	1.2	11	3.2	12.3	<0.05	1.65	0.3	<0.005	0.15
H884845		300	3.3	27.8	<0.002	1.22	1.58	3.6	1	0.8	246	0.68	<0.05	2.7	0.176	0.30
H884846		600	3.9	18.1	0.002	1.69	3.03	4.0	1	0.5	266	0.57	<0.05	2.3	0.174	0.17
H884847		1910	2.5	119.5	<0.002	1.73	1.51	31.1	1	2.6	207	1.48	<0.05	4.8	0.959	0.76
H884848		3070	1.3	198.5	<0.002	0.38	0.76	18.7	2	7.9	70.8	7.46	<0.05	17.1	1.390	2.23
H884849		5130	1.2	201	<0.002	0.88	0.90	12.5	2	8.9	98.5	6.46	<0.05	15.9	0.902	1.76
H884850		4870	1.0	210	<0.002	0.86	0.56	12.1	1	8.5	91.3	6.33	<0.05	15.3	0.893	1.67
H884851		3750	3.2	138.5	<0.002	>10.0	1.44	13.0	1	4.6	42.5	2.34	<0.05	9.8	0.428	0.85
H884852		220	7.2	83.1	<0.002	>10.0	14.20	0.9	6	0.5	50.1	0.30	0.35	1.2	0.051	0.60
H884853		90	3.9	28.4	<0.002	>10.0	15.90	0.7	6	0.4	43.7	0.12	0.33	0.5	0.020	0.20
H884854		110	4.5	37.9	0.005	>10.0	5.52	0.7	7	0.6	44.8	0.14	0.23	0.6	0.027	0.28
H884855		120	3.3	48.3	0.002	>10.0	4.37	0.6	4	0.6	59.5	0.13	0.11	0.5	0.026	0.26
H884856		60	6.7	7.4	0.004	>10.0	22.1	0.4	10	2.1	60.9	0.07	1.21	0.4	0.008	0.18
H884857		80	6.2	12.8	<0.002	>10.0	23.4	<0.1	6	1.5	22.7	0.11	0.73	0.2	0.020	0.10
H884858		40	3.5	3.3	0.002	>10.0	8.27	0.3	7	0.4	32.4	<0.05	1.58	<0.2	0.005	0.05

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CERTIFICATE OF ANALYSIS VA09089512

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H884823		3.2	13	630	11.8	172	9.4	2.32
H884824		0.5	12	265	1.5	33	4.7	
H884825		1.0	4	266	5.0	20	2.8	
H884826		3.2	32	35.1	20.2	26	63.2	
H884827		1.2	16	35.8	10.5	16	21.5	
H884828		0.4	18	65.5	7.4	35	6.0	
H884829		0.8	9	48.0	9.3	18	11.2	
H884830		1.2	15	26.6	13.7	26	15.7	
H884831		0.8	8	11.8	11.1	23	9.1	
H884832		0.3	5	23.7	7.3	15	2.7	
H884833		5.2	17	500	10.8	215	9.1	1.04
H884834		7.2	11	379	14.6	42	7.3	7.34
H884835		3.7	15	163.0	17.9	78	3.7	2.99
H884836		7.1	23	54.4	16.0	99	15.6	4.68
H884837		5.0	15	215	23.2	91	9.5	3.19
H884838		6.7	18	257	11.4	112	17.2	5.95
H884839		1.1	<1	0.6	1.0	15	<0.5	
H884840		7.0	19	229	18.5	200	8.6	4.92
H884841		6.0	21	930	22.3	148	16.2	3.08
H884842		4.8	16	710	28.5	217	8.4	3.29
H884843		0.5	1	2.3	1.1	16	<0.5	
H884844		3.5	16	385	35.7	542	4.6	2.84
H884845		0.5	24	1.2	8.1	17	26.5	
H884846		1.9	29	0.6	14.2	26	36.3	
H884847		1.2	269	0.9	23.2	69	40.2	
H884848		0.7	148	2.6	33.4	101	27.8	
H884849		0.6	106	3.7	37.2	42	25.8	
H884850		0.6	109	3.6	34.1	41	25.0	
H884851		0.6	113	4.3	22.9	22	28.0	
H884852		0.4	7	2.8	4.6	21	15.4	
H884853		0.2	4	1.4	4.2	6	5.3	
H884854		0.3	8	317	4.1	7	8.6	
H884855		0.3	6	61.2	4.9	9	9.4	
H884856		0.5	5	34.6	4.7	11	5.5	4.93
H884857		0.4	6	56.7	2.0	3	9.4	
H884858		0.1	4	115.0	3.1	5	2.1	3.86

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Page: Appendix 1
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Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09089512

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

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

Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE VA09088877

Project: RAU

P.O. No.: Batch 38

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
CRU-QC	Crushing QC Test
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09088877

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884931		1.80	0.01	7.02	1.34	471	880	0.53	17.00	2.41	39.3	16.95	15.6	60	1.41	45.1
H884932		1.16	0.01	24.1	2.45	343	740	1.14	149.0	7.02	9.69	16.40	6.2	94	3.64	33.5
H884933		1.18	0.19	>100	0.60	1895	580	0.56	581	0.34	37.8	31.7	14.4	11	0.68	48.9
H884934		1.20	0.04	36.8	3.54	1120	370	0.95	1060	0.16	16.35	15.20	9.5	32	5.03	30.4
H884935		0.28	1.46	1.75	0.11	>10000	30	<0.05	343	12.00	0.77	59.7	1.6	5	0.63	20.2
H884936		1.02	0.01	17.30	0.29	991	110	0.13	1060	0.14	12.15	13.10	11.7	2	0.86	164.0
H884937		5.20	0.02	6.71	0.26	439	180	0.09	1350	0.13	16.40	13.00	24.1	<1	0.60	59.1
H884938		2.30	0.03	2.30	0.29	1475	120	0.23	2170	0.15	7.78	13.85	13.4	<1	0.34	74.5
H884939		4.02	<0.01	0.09	0.07	<5	20	0.06	5.06	20.1	0.11	1.59	0.9	2	0.15	2.0
H884940		1.80	0.03	35.8	0.62	2340	3270	0.56	2200	0.22	28.1	35.8	29.2	2	1.57	287
H884941		2.08	0.48	9.39	0.19	473	200	0.12	878	13.45	2.26	13.30	9.1	<1	0.40	127.5
H884942		4.42	0.27	1.82	0.08	192	120	0.07	76.4	19.05	5.87	13.80	2.7	<1	0.34	46.4
H884943		2.36	0.03	2.66	3.62	664	520	1.36	1380	10.30	6.58	46.9	7.4	16	3.89	31.6
H884944		1.04	0.02	2.31	4.64	890	640	1.71	959	7.73	5.84	59.4	9.7	19	4.79	35.6
H884945		4.04	<0.01	0.25	1.13	113	240	0.31	6.75	32.1	1.59	21.1	2.4	11	1.55	2.2
H884946		2.68	0.05	0.08	0.46	200	130	0.18	3.26	36.2	0.62	10.15	1.9	10	0.55	3.2
H884947		0.46	0.11	1.59	1.19	>10000	1720	0.49	6.67	1.09	13.65	36.0	17.3	17	0.74	35.2
H884948		4.02	<0.01	0.05	0.09	8	20	0.18	1.10	20.4	0.08	1.90	0.7	1	0.15	2.7
H884949		2.26	<0.01	0.13	0.10	167	30	0.11	0.49	35.7	0.72	2.42	0.7	3	<0.05	3.4
H884950		2.72	0.03	0.58	1.70	>10000	600	0.53	1.48	2.96	15.10	80.4	28.9	26	1.81	40.5
H885501		3.26	0.06	0.55	1.39	>10000	550	0.46	11.50	0.67	9.00	52.6	14.6	16	0.92	39.1
H885502		2.12	0.04	0.40	0.86	>10000	310	0.41	13.85	0.51	8.05	41.2	15.3	5	0.44	13.2
H885503		1.78	5.05	0.41	0.98	>10000	440	0.29	415	1.36	7.24	22.3	5.2	13	0.71	7.3
H885504		3.66	2.25	0.46	2.13	>10000	640	0.53	207	0.70	7.61	24.4	11.1	30	3.70	12.7
H885505		5.22	3.19	0.90	0.77	>10000	100	0.38	213	0.63	7.66	26.8	8.5	9	1.48	19.4
H885506		2.92	0.49	0.78	0.90	>10000	140	0.38	427	0.61	9.73	38.0	9.0	10	0.70	30.3
H885507		2.30	0.32	0.58	2.27	>10000	370	0.98	263	0.57	6.50	65.2	8.3	32	0.88	76.5
H885508		0.28	1.50	1.74	0.11	>10000	30	0.08	318	12.55	0.80	53.2	1.4	6	0.61	20.5
H885509		1.76	0.80	1.43	0.91	>10000	70	0.56	338	0.59	6.47	53.1	13.7	6	1.01	66.5
H885510		2.22	0.44	0.47	2.32	>10000	100	0.89	72.7	0.63	5.61	65.1	13.4	28	5.92	65.3
H885511		1.74	0.67	0.49	0.67	>10000	50	0.43	30.5	0.62	5.59	40.5	6.6	3	0.28	54.8
H885512		0.78	0.96	0.70	0.70	>10000	60	0.58	13.85	0.63	10.40	57.7	5.9	2	0.26	51.3
H885513		2.84	1.25	0.67	0.51	>10000	40	0.29	297	0.79	3.07	20.2	1.9	3	0.22	109.0
H885514		1.36	0.89	0.40	0.92	>10000	40	0.65	49.9	0.56	7.04	55.3	4.6	2	1.00	39.4
H885515		0.42	1.10	0.77	0.59	>10000	30	0.39	236	0.70	3.41	25.6	3.8	<1	0.37	13.5
H885516		0.38	1.04	0.66	0.33	>10000	20	0.41	534	0.75	2.16	17.85	3.3	<1	0.40	5.5

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Project: RAU

Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088877

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884931		18.85	8.77	0.24	0.6	0.01	3.03	0.37	6.7	2.7	0.58	35100	1.74	0.07	1.1	52.3
H884932		7.25	17.00	0.13	1.1	0.02	1.290	0.92	6.3	8.3	2.59	10650	2.82	0.06	3.6	25.9
H884933		42.8	4.74	0.82	0.4	0.04	1.210	0.22	11.4	2.5	0.66	11500	10.45	0.03	2.2	60.3
H884934		25.4	20.9	0.51	3.1	0.01	0.181	1.32	7.3	6.5	3.01	1520	2.95	0.07	17.1	40.4
H884935		16.30	1.07	0.28	0.1	<0.01	0.112	0.06	39.6	1.7	6.85	2180	5.16	0.01	0.5	6.5
H884936		34.8	3.25	0.61	0.2	0.01	0.141	0.08	5.9	2.4	3.80	3170	2.12	0.02	0.8	51.8
H884937		41.8	2.39	0.65	0.1	<0.01	0.140	0.02	5.4	1.2	4.03	6500	2.68	0.01	0.5	62.0
H884938		45.0	2.64	0.88	0.1	0.04	0.167	0.05	4.9	1.9	2.03	2970	1.42	0.01	0.6	46.3
H884939		0.55	0.32	0.06	<0.1	<0.01	<0.005	0.03	0.8	1.0	13.35	207	0.09	0.01	0.3	4.3
H884940		32.4	5.45	0.69	0.3	0.23	1.220	0.16	11.1	4.4	0.94	10700	2.45	<0.01	1.2	51.8
H884941		19.80	2.74	0.45	0.1	0.01	0.093	0.05	5.0	1.5	6.77	7470	0.38	0.01	0.4	33.9
H884942		7.94	1.09	0.15	0.1	0.01	0.122	0.04	5.4	1.7	8.87	7390	0.22	0.01	0.3	11.4
H884943		12.60	12.95	0.23	0.9	0.01	0.129	1.88	25.7	8.9	3.28	4090	0.85	0.03	29.7	42.5
H884944		16.50	17.05	0.31	0.9	0.01	0.137	2.42	34.5	10.5	2.50	3620	0.87	0.03	36.5	51.3
H884945		1.36	3.46	0.07	0.4	<0.01	0.121	0.70	13.4	3.5	0.33	922	0.16	0.01	10.9	13.2
H884946		1.01	1.36	<0.05	0.2	<0.01	0.008	0.24	7.1	0.8	0.27	566	0.13	0.01	5.7	11.3
H884947		47.1	3.62	0.56	0.3	0.01	0.086	0.41	23.6	1.0	0.15	2750	1.99	0.04	1.7	89.1
H884948		0.41	0.16	<0.05	<0.1	<0.01	<0.005	0.04	0.9	1.2	12.65	195	0.13	0.01	0.4	2.5
H884949		0.58	0.25	<0.05	<0.1	<0.01	<0.005	0.04	2.1	0.2	0.26	182	0.11	0.01	0.5	3.8
H884950		41.3	4.14	0.42	0.4	<0.01	0.057	0.76	37.6	3.0	0.26	6300	1.82	0.26	3.5	64.0
H885501		48.6	4.39	0.44	0.3	<0.01	0.139	0.52	27.5	2.6	0.22	4740	2.24	0.03	1.7	50.4
H885502		49.2	2.19	0.44	0.1	<0.01	0.125	0.18	23.8	1.1	0.20	6120	1.60	0.02	1.0	54.3
H885503		42.8	2.25	0.57	0.1	<0.01	0.087	0.42	12.9	1.5	0.13	2860	0.80	0.02	2.4	19.6
H885504		42.8	6.43	0.49	0.9	<0.01	0.088	0.94	13.1	4.4	0.24	5330	1.47	0.04	5.1	35.0
H885505		48.9	3.12	0.51	0.3	<0.01	0.195	0.24	13.2	1.0	0.13	3900	1.51	0.02	0.9	29.2
H885506		>50	4.69	0.49	0.2	<0.01	0.270	0.20	18.7	0.8	0.12	4570	1.84	0.01	0.9	30.4
H885507		46.1	13.75	0.43	0.6	<0.01	0.672	0.60	33.7	4.3	0.19	4380	1.15	0.02	1.6	38.2
H885508		16.35	0.73	0.15	0.1	<0.01	0.072	0.07	35.3	1.8	6.79	2150	5.40	0.16	0.5	7.0
H885509		43.7	3.96	0.49	0.3	0.01	0.579	0.23	20.2	1.9	0.20	11550	0.95	0.01	0.7	56.7
H885510		41.2	9.43	0.48	1.0	<0.01	0.272	0.72	27.8	4.9	1.05	7660	1.10	0.02	4.9	49.0
H885511		49.3	2.56	0.48	0.2	0.01	0.192	0.06	23.2	0.9	0.22	5210	1.91	0.03	1.0	31.4
H885512		>50	1.69	0.49	0.1	<0.01	0.239	0.05	29.7	1.1	0.16	3410	0.84	0.01	0.6	25.3
H885513		>50	1.78	0.50	0.1	<0.01	0.110	0.03	10.3	0.5	0.11	1950	0.60	0.01	0.6	10.0
H885514		47.6	2.30	0.52	0.2	<0.01	0.102	0.07	24.0	1.6	0.20	3170	0.60	<0.01	0.9	30.3
H885515		49.8	1.80	0.49	0.1	<0.01	0.061	0.08	15.5	0.8	0.17	3220	2.36	0.01	0.8	18.5
H885516		49.9	2.52	0.75	0.2	<0.01	0.058	0.04	9.6	<0.2	0.18	4000	1.75	0.01	0.9	19.3

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CERTIFICATE OF ANALYSIS VA09088877

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884931		1160	151.5	26.6	<0.002	0.20	3.57	5.9	2	15.6	57.3	0.05	0.06	0.7	0.039	0.37
H884932		980	449	102.5	<0.002	0.03	12.70	5.6	2	28.1	37.9	0.18	0.12	1.0	0.111	0.96
H884933		1390	1335	17.6	0.005	0.28	51.8	4.5	5	14.2	10.2	0.09	0.70	1.0	0.022	2.34
H884934		460	104.5	121.0	0.006	0.14	22.7	3.9	4	12.0	11.5	0.93	0.83	5.7	0.149	0.94
H884935		110	16.2	7.4	0.005	>10.0	20.0	0.5	5	1.1	85.9	<0.05	0.87	0.5	0.008	0.11
H884936		470	161.0	11.2	<0.002	0.11	29.0	1.2	5	3.9	4.1	0.05	0.92	0.6	0.015	0.74
H884937		290	21.2	2.7	<0.002	0.08	13.15	3.0	4	1.0	4.9	0.05	0.82	0.5	0.008	1.07
H884938		290	27.8	5.9	<0.002	0.07	25.3	2.4	5	1.8	5.1	<0.05	1.16	0.7	0.007	0.36
H884939		230	7.0	1.3	<0.002	0.02	0.14	0.3	1	<0.2	46.9	<0.05	<0.05	<0.2	<0.005	<0.02
H884940		400	518	21.5	0.007	0.23	182.0	2.6	6	81.7	60.1	0.05	1.50	1.0	0.019	3.89
H884941		110	113.0	6.8	0.004	0.95	33.3	2.6	4	4.1	48.9	<0.05	0.56	1.9	0.009	1.00
H884942		70	237	5.1	0.004	0.83	18.45	1.2	2	3.4	90.4	<0.05	0.08	<0.2	<0.005	0.55
H884943		640	52.3	119.5	<0.002	0.09	23.4	3.5	3	20.2	27.7	1.44	0.94	4.8	0.177	0.83
H884944		690	45.2	146.0	<0.002	0.06	21.3	4.1	3	22.7	23.3	1.75	0.73	5.8	0.214	0.96
H884945		260	15.7	34.6	<0.002	<0.01	1.12	1.7	2	3.5	138.0	0.58	<0.05	1.6	0.110	0.17
H884946		120	2.9	11.2	<0.002	0.01	0.49	0.8	2	0.3	141.5	0.31	<0.05	0.7	0.052	0.11
H884947		730	28.5	17.7	<0.002	0.06	6.67	2.9	2	0.5	15.0	0.10	0.07	1.5	0.040	0.47
H884948		390	2.4	1.4	<0.002	0.01	0.07	0.3	1	<0.2	49.2	<0.05	<0.05	<0.2	<0.005	<0.02
H884949		60	38.3	1.3	<0.002	0.02	0.63	0.5	2	<0.2	131.0	<0.05	<0.05	<0.2	0.011	<0.02
H884950		590	22.9	21.6	<0.002	0.18	6.43	3.5	2	0.5	24.2	0.27	<0.05	1.9	0.055	1.25
H885501		530	40.8	13.4	<0.002	0.03	11.35	2.2	2	0.7	16.5	0.09	0.09	1.7	0.032	0.60
H885502		500	21.6	5.2	<0.002	0.03	7.57	1.1	2	0.3	21.2	0.06	0.08	1.6	0.014	0.53
H885503		460	10.6	14.3	<0.002	0.05	49.5	0.7	4	1.0	39.5	0.12	0.30	0.7	0.041	0.60
H885504		480	11.1	32.1	<0.002	0.07	32.9	3.1	6	1.9	31.8	0.27	0.15	2.1	0.080	0.68
H885505		370	16.3	15.5	0.002	0.09	23.5	1.2	4	1.4	41.7	0.05	0.11	1.1	0.013	0.56
H885506		410	27.2	8.3	0.003	0.06	25.4	2.2	5	0.9	33.3	<0.05	0.24	2.4	0.011	0.46
H885507		930	69.2	29.9	<0.002	0.06	14.50	4.4	5	6.4	109.0	0.13	0.28	8.0	0.030	0.41
H885508		110	14.5	6.6	0.004	>10.0	20.7	0.3	5	1.0	84.5	<0.05	0.87	0.5	0.008	0.07
H885509		320	72.1	28.5	<0.002	0.05	16.50	1.9	4	12.4	37.9	<0.05	0.21	1.3	0.011	0.54
H885510		490	42.1	105.5	<0.002	0.05	10.55	2.9	3	12.2	32.7	0.25	0.18	3.6	0.085	0.81
H885511		420	30.6	8.2	<0.002	0.05	6.58	1.1	3	3.0	28.5	0.05	0.16	0.7	0.009	0.21
H885512		340	17.1	6.4	<0.002	0.05	5.40	1.7	7	3.2	25.1	<0.05	0.09	0.4	<0.005	0.17
H885513		410	25.9	4.1	<0.002	0.09	31.8	0.4	7	0.8	35.0	<0.05	0.42	0.4	<0.005	0.12
H885514		320	9.3	9.9	<0.002	0.05	4.40	1.5	6	0.6	22.8	0.05	0.17	0.4	0.011	0.14
H885515		260	13.1	11.8	<0.002	0.05	9.14	0.7	6	0.6	26.4	<0.05	0.32	0.3	0.008	0.25
H885516		250	10.8	5.6	<0.002	0.06	13.75	<0.1	7	2.9	25.1	<0.05	0.89	0.3	0.009	0.20

***** See Appendix Page for comments regarding this certificate *****

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

Finalized Date: 13-SEP-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09088877

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Zn-OG62
	Analyte	U	V	W	Y	Zn	Zr	Ag	Zn
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	1	0.001
H884931		2.4	34	20.9	14.3	8370	27.8		
H884932		1.7	59	113.5	16.0	2030	44.4		
H884933		3.7	16	900	36.2	>10000	17.4	179	1.085
H884934		3.8	42	800	12.4	2450	139.0		
H884935		0.8	5	210	7.5	142	3.5		
H884936		2.4	7	175.0	15.0	3840	11.5		
H884937		4.1	8	280	17.7	3760	4.7		
H884938		2.8	8	92.8	13.6	2320	3.9		
H884939		0.5	3	1.4	1.0	26	0.5		
H884940		3.1	10	1360	19.7	3470	9.9		
H884941		3.6	7	1010	16.6	498	2.4		
H884942		0.6	5	630	15.8	1060	1.5		
H884943		1.2	36	37.9	19.3	1410	30.0		
H884944		1.6	45	46.5	19.3	1560	32.2		
H884945		0.2	14	2.8	7.4	217	20.3		
H884946		0.1	11	1.1	3.8	162	8.9		
H884947		3.7	23	5.4	22.4	4760	11.4		
H884948		0.5	1	0.4	1.0	18	0.5		
H884949		0.1	<1	0.8	2.3	125	2.1		
H884950		3.2	39	3.9	21.8	2680	15.4		
H885501		3.5	30	6.5	23.5	2330	12.2		
H885502		3.9	14	3.7	25.0	2860	4.3		
H885503		3.7	19	3.6	9.2	972	5.5		
H885504		3.8	43	6.6	13.2	1450	34.1		
H885505		4.9	16	4.8	19.0	1600	10.0		
H885506		4.5	22	13.1	21.9	1760	7.2		
H885507		3.9	41	17.0	28.3	1960	20.1		
H885508		0.9	6	200	6.6	136	2.9		
H885509		2.9	16	42.8	37.1	1480	7.7		
H885510		4.1	36	11.3	32.2	1600	34.0		
H885511		2.4	19	5.6	35.1	1040	5.9		
H885512		3.0	18	3.0	50.8	893	5.0		
H885513		2.4	22	47.6	18.7	477	3.2		
H885514		3.3	34	13.5	47.6	844	5.6		
H885515		3.0	32	17.7	26.2	585	3.7		
H885516		3.0	22	17.3	18.7	306	5.5		

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088877

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

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Finalized Date: 11-SEP-2009
This copy reported on 7-OCT-2009
Account: RCM

CERTIFICATE VA09088876

Project: RAU

P.O. No.: Batch 39

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-AUG-2009. CORRECTED COPY

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H885517		0.86	2.40	1.24	0.26	>10000	40	<0.05	474	0.50	0.75	9.62	3.7	2	0.15	13.5
H885518		1.42	1.10	0.61	0.25	>10000	10	0.13	67.2	0.80	0.87	12.35	3.3	<1	0.13	11.5
H885519		3.90	0.01	0.06	0.07	72	10	0.05	0.53	18.25	0.06	1.62	0.9	<1	0.19	2.3
H885520		1.70	1.51	0.89	0.18	>10000	10	<0.05	88.3	0.71	0.84	13.40	1.8	<1	0.09	13.1
H885521		2.08	2.96	1.70	0.20	>10000	10	0.05	207	0.58	0.75	44.0	1.2	<1	0.18	4.8
H885522		3.94	11.25	16.50	0.26	>10000	30	0.06	431	0.93	2.69	49.1	1.0	<1	1.12	8.4
H885523		1.38	3.82	14.75	0.15	>10000	20	<0.05	567	1.04	2.59	13.25	1.3	<1	1.00	4.0
H885524		0.28	1.42	1.56	0.11	>10000	20	<0.05	343	12.70	0.85	50.9	1.6	6	0.62	17.6
H885525		0.60	3.89	15.50	0.22	>10000	50	0.08	1700	1.25	4.19	31.4	0.9	<1	0.33	7.3
H885526		0.30	0.31	1.73	0.48	>10000	30	0.13	27.6	0.93	1.79	14.45	2.2	1	0.09	11.4
H885527		6.50	0.02	0.13	0.37	128	140	0.14	0.79	35.3	1.07	6.36	2.1	8	0.62	4.1
H885528		1.24	0.15	0.44	0.16	125	120	0.06	0.28	37.9	0.80	5.08	1.4	3	0.19	2.0
H885529		4.78	0.43	2.11	0.91	>10000	820	0.45	49.7	0.87	6.62	23.1	9.4	17	2.70	48.0
H885530		9.06	6.55	1.04	0.49	>10000	2150	0.18	715	3.19	3.40	9.36	1.8	13	4.48	14.3
H885531		4.16	4.69	0.50	0.47	>10000	1660	0.16	574	3.49	6.84	13.20	1.2	10	4.30	14.6
H885532		3.90	16.80	1.14	0.44	>10000	1110	0.10	639	3.39	4.14	10.90	0.8	13	2.28	9.5
H885533		9.36	1.54	0.29	0.34	>10000	3850	0.12	303	1.39	4.60	8.84	2.0	14	3.73	12.3
H885534		4.12	0.02	0.01	0.06	343	30	0.08	1.04	19.80	0.06	1.38	0.7	<1	0.12	2.5
H885535		0.28	0.45	0.78	0.83	6300	110	0.29	105.5	13.00	0.16	33.7	5.6	14	2.03	32.3
H885536		9.90	1.26	0.25	0.45	>10000	2520	0.13	613	1.71	5.21	12.05	1.9	8	4.01	8.1
H885537		8.74	3.30	1.34	0.56	>10000	2750	0.29	841	1.56	4.70	11.65	1.9	13	1.35	10.1
H885538		1.86	0.60	2.35	0.90	>10000	1700	0.30	565	2.50	4.59	16.20	4.0	21	4.17	22.6
H885539		3.14	0.42	0.25	4.68	>10000	1910	1.96	35.3	1.39	5.38	49.5	11.0	73	5.18	45.4
H885540		4.70	0.45	1.19	1.60	>10000	330	0.90	56.7	2.35	8.17	28.3	5.3	17	0.92	35.8
H885541		3.70	0.39	6.29	1.54	>10000	300	0.65	73.9	11.05	5.81	23.5	4.1	18	0.31	26.9
H885542		9.98	0.12	0.09	0.20	2310	130	0.21	3.68	19.05	0.79	7.53	1.7	1	0.27	2.0
H885543		6.12	0.11	0.13	1.07	4800	810	0.55	8.38	15.70	1.20	10.95	6.3	10	1.22	12.3
H885544		4.00	0.09	0.10	0.23	2900	130	0.20	3.55	14.30	0.93	6.75	3.8	2	0.18	3.5
H885545		2.82	0.28	0.30	1.55	>10000	360	0.76	2.67	7.14	3.90	36.7	15.7	23	0.62	26.2
H885546		1.98	0.34	0.28	3.08	>10000	730	1.14	2.54	8.08	2.78	32.5	12.9	26	1.36	19.4
H885547		7.88	0.14	0.73	3.84	3270	1070	1.09	1.69	12.65	1.08	44.3	16.6	27	2.58	26.4
H885548		6.82	0.08	0.06	3.57	971	680	0.83	0.88	14.50	0.41	64.9	24.2	20	2.59	28.6
H885549		6.24	0.06	0.08	6.34	936	1140	1.40	1.55	11.45	0.76	71.1	23.0	41	4.00	23.4
H885550		0.26	<0.01	0.13	1.65	93	340	0.48	0.37	21.6	0.36	23.8	19.8	37	2.30	7.9
H885551		1.48	<0.01	0.49	8.72	42.7	1190	1.22	0.19	3.27	0.26	64.1	41.5	386	5.88	59.2
H885552		1.90	<0.01	0.36	6.88	31.5	920	0.98	0.17	6.79	0.04	50.5	50.7	277	6.62	71.2

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H885517 TO H885552.**

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H885517		45.1	1.92	0.71	0.2	0.03	0.093	0.02	4.9	0.8	0.23	3650	5.19	0.01	0.5	14.0
H885518		49.5	1.27	0.46	0.1	0.02	0.170	0.02	5.8	0.4	0.20	3450	2.02	0.01	0.3	16.6
H885519		0.47	0.26	<0.05	<0.1	<0.01	0.009	0.03	0.8	1.2	11.75	179	0.12	0.01	0.3	1.3
H885520		>50	0.91	0.43	0.1	0.02	0.178	0.02	7.5	0.3	0.16	2410	1.43	<0.01	0.5	7.3
H885521		>50	1.20	0.38	0.1	0.07	0.116	0.03	30.4	0.4	0.21	1680	0.60	<0.01	0.4	4.7
H885522		>50	1.27	0.47	0.2	0.24	0.232	0.06	32.9	0.5	0.12	1340	0.56	<0.01	0.5	4.5
H885523		49.8	1.17	0.25	0.1	0.07	0.180	0.05	6.9	0.6	0.11	1500	0.36	<0.01	0.5	6.6
H885524		16.05	0.92	0.18	0.1	0.02	0.086	0.06	32.9	1.8	6.92	2180	5.78	<0.01	0.5	7.2
H885525		49.0	1.69	0.57	0.3	<1	0.106	0.08	19.5	0.7	0.37	1850	0.93	0.01	0.6	5.8
H885526		>50	1.09	0.48	0.1	<1	0.369	0.02	5.9	0.4	0.29	2180	0.52	0.01	0.6	9.5
H885527		0.66	1.01	0.07	0.1	0.01	0.009	0.14	5.7	1.9	0.58	291	0.12	0.01	1.6	5.5
H885528		0.41	0.44	<0.05	0.1	0.04	0.010	0.06	5.4	0.6	1.13	309	0.06	<0.01	0.9	4.9
H885529		46.8	4.57	0.57	0.6	<1	0.142	0.12	18.2	1.7	0.39	2000	2.00	<0.01	2.4	43.4
H885530		45.3	3.42	0.41	0.4	<1	0.209	0.20	4.4	1.5	0.12	811	3.53	0.01	1.9	8.0
H885531		45.4	3.33	0.42	0.3	<1	0.320	0.15	6.1	0.8	0.16	831	2.69	0.01	0.7	6.1
H885532		24.0	3.11	0.22	0.7	0.2	0.242	0.18	6.0	1.4	0.12	527	1.15	0.02	1.8	2.9
H885533		>50	3.33	0.45	0.3	<1	0.095	0.11	4.8	1.1	0.13	615	6.03	<0.01	0.6	8.6
H885534		0.49	0.24	<0.05	<0.1	0.1	0.006	0.02	0.6	1.2	13.05	184	0.27	<0.01	0.3	2.2
H885535		15.05	3.77	0.19	0.3	<0.1	0.074	0.42	19.3	4.1	7.32	2150	15.55	0.02	3.7	22.5
H885536		>50	3.50	0.49	0.3	<1	0.116	0.23	6.4	1.7	0.09	490	6.77	<0.01	0.9	7.8
H885537		>50	4.52	0.48	0.5	<1	0.121	0.19	6.3	1.2	0.15	925	5.19	<0.01	2.0	9.1
H885538		49.5	6.33	0.41	0.5	<1	0.251	0.18	8.6	1.3	0.14	1430	2.10	0.01	0.8	16.9
H885539		31.6	20.5	0.49	2.1	<1	0.203	1.37	28.3	17.1	1.65	886	0.64	0.02	4.3	35.4
H885540		41.8	5.50	0.48	0.4	<1	0.130	0.19	14.1	4.0	0.94	1080	0.56	<0.01	1.1	17.2
H885541		22.6	1.59	0.22	0.2	<0.1	0.116	0.08	11.7	1.8	6.01	1430	1.19	<0.01	0.7	15.6
H885542		3.73	0.93	0.05	0.1	<0.01	0.021	0.07	5.5	1.7	11.60	894	0.16	<0.01	0.8	4.8
H885543		10.20	5.19	0.12	0.5	0.01	0.032	0.45	7.0	3.1	8.69	1190	0.47	<0.01	4.1	19.0
H885544		7.94	0.96	0.09	0.1	<0.1	0.020	0.07	4.3	1.7	8.49	900	0.26	<0.01	0.9	11.8
H885545		33.0	5.68	0.31	0.4	<1	0.066	0.23	17.3	3.0	3.95	1400	0.45	<0.01	1.7	72.6
H885546		21.0	13.25	0.22	0.8	<0.1	0.076	1.04	16.0	6.3	4.74	1140	0.35	0.01	4.1	61.3
H885547		8.82	13.25	0.13	2.0	<0.1	0.035	1.86	22.2	12.8	7.31	829	0.26	0.01	8.9	50.1
H885548		3.87	10.10	0.11	1.1	<0.01	0.028	1.71	30.7	13.2	9.50	733	0.12	0.01	12.5	49.0
H885549		5.09	19.10	0.19	1.0	<0.01	0.043	3.39	36.4	19.0	7.44	726	0.18	0.03	22.4	52.9
H885550		4.23	4.15	0.09	0.8	0.01	0.023	0.87	14.9	9.1	2.72	582	1.03	0.10	8.3	56.2
H885551		11.75	24.6	0.20	0.6	<0.01	0.085	4.33	30.8	40.2	1.29	741	2.48	0.83	18.1	214
H885552		11.15	18.85	0.17	0.5	<0.1	0.064	3.49	24.6	29.2	2.31	1340	1.78	0.34	18.8	227

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H885517 TO H885552.**

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885517		180	15.6	2.0	0.008	0.07	14.65	0.9	6	2.6	19.2	0.07	0.75	0.3	0.009	0.34
H885518		320	51.9	2.9	<0.002	0.06	6.81	0.8	6	0.6	29.3	<0.05	0.31	0.3	0.005	0.12
H885519		250	1.7	1.2	<0.002	0.02	0.05	0.3	2	<0.2	51.4	<0.05	<0.05	<0.2	<0.005	<0.02
H885520		310	37.5	2.9	<0.002	0.06	6.05	0.5	6	1.2	25.5	<0.05	0.38	0.3	<0.005	0.11
H885521		230	213	4.5	0.002	0.07	8.67	0.5	7	1.9	20.9	<0.05	0.50	0.3	<0.005	0.17
H885522		230	1640	12.9	0.003	0.09	16.75	0.5	13	16.8	43.5	<0.05	1.23	0.4	<0.005	0.44
H885523		250	332	6.4	0.013	0.11	22.4	0.1	12	5.7	49.3	<0.05	1.40	<0.2	<0.005	0.73
H885524		110	15.9	7.3	0.004	>10.0	22.2	0.4	6	1.2	90.3	<0.05	0.80	0.5	0.009	0.10
H885525		310	500	6.4	0.006	0.19	25.9	0.8	22	11.9	129.0	0.07	3.61	0.6	0.008	0.70
H885526		430	134.0	1.5	<0.002	0.06	5.71	0.6	3	1.6	20.4	0.05	0.16	0.2	0.005	0.12
H885527		100	16.4	6.1	<0.002	0.02	0.84	1.4	2	0.2	126.0	0.08	0.08	0.4	0.041	0.10
H885528		70	5.5	2.5	<0.002	0.01	0.42	0.7	1	<0.2	134.0	<0.05	<0.05	0.2	0.023	0.03
H885529		600	39.1	10.2	<0.002	0.01	13.55	3.1	2	1.0	15.5	0.14	0.26	1.3	0.049	0.34
H885530		530	120.5	35.8	0.002	0.26	77.0	1.4	5	4.6	192.5	0.06	1.22	0.5	0.023	0.80
H885531		630	38.2	34.0	<0.002	0.13	105.0	2.1	5	3.7	173.0	0.06	1.08	0.6	0.019	0.76
H885532		740	36.0	28.2	0.002	0.20	81.3	1.9	5	5.0	215	0.10	1.12	0.4	0.048	0.67
H885533		470	6.7	22.3	0.002	0.20	32.8	1.3	3	3.4	92.6	0.05	0.11	0.6	0.016	0.49
H885534		270	1.6	1.1	<0.002	<0.01	0.14	0.3	1	<0.2	57.9	<0.05	<0.05	<0.2	<0.005	<0.02
H885535		250	13.9	31.3	0.014	>10.0	4.80	1.8	6	3.4	91.8	0.20	0.19	0.7	0.098	0.27
H885536		470	10.8	32.7	0.002	0.27	45.4	1.0	10	4.0	144.0	<0.05	0.14	0.4	0.014	0.69
H885537		530	13.0	11.7	0.004	0.15	40.8	1.6	12	4.0	94.7	0.07	0.29	0.4	0.028	0.32
H885538		620	17.6	23.8	<0.002	0.09	14.35	4.3	3	3.8	106.5	0.07	0.21	1.5	0.021	0.24
H885539		1070	11.9	74.7	<0.002	0.09	4.58	8.3	4	2.9	90.0	0.26	0.22	3.9	0.116	0.42
H885540		570	159.0	11.9	<0.002	0.05	5.95	2.4	6	0.8	44.6	0.07	0.17	0.6	0.018	0.12
H885541		390	164.5	3.8	<0.002	0.02	6.68	1.7	3	0.6	42.3	0.05	0.09	0.3	0.013	0.07
H885542		120	9.7	3.8	<0.002	<0.01	0.61	0.8	1	0.4	46.0	0.05	<0.05	0.2	0.017	0.03
H885543		880	12.9	18.5	<0.002	<0.01	1.51	2.2	3	2.2	57.5	0.22	<0.05	0.6	0.106	0.16
H885544		160	5.6	2.7	<0.002	0.01	1.28	0.5	2	0.4	42.2	<0.05	<0.05	<0.2	0.021	0.04
H885545		1260	6.4	7.5	<0.002	0.05	5.31	3.0	3	0.6	48.2	0.09	<0.05	0.8	0.040	0.14
H885546		950	5.9	29.5	<0.002	0.04	4.15	5.5	3	1.3	49.1	0.25	<0.05	1.0	0.137	0.27
H885547		1950	5.3	51.7	<0.002	0.11	2.86	7.8	2	1.4	80.0	0.52	<0.05	2.2	0.298	0.47
H885548		1980	2.2	47.0	<0.002	0.01	1.40	7.7	1	1.2	67.0	0.72	<0.05	2.1	0.391	0.31
H885549		1530	2.5	84.2	<0.002	0.10	1.40	13.8	2	2.2	58.0	1.37	<0.05	3.4	0.709	0.63
H885550		460	9.9	33.5	<0.002	0.03	1.01	4.7	2	0.7	225	0.49	<0.05	1.7	0.209	0.56
H885551		2340	3.6	106.0	<0.002	0.08	0.42	32.8	1	2.0	41.7	1.04	<0.05	3.8	0.712	1.31
H885552		1910	2.7	81.9	<0.002	0.06	0.23	24.4	1	1.7	50.8	1.11	<0.05	2.8	0.751	1.17

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H885517 TO H885552.**

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
H885517		2.5	7	1540	7.5	185	5.9
H885518		2.9	25	5.2	8.5	215	3.4
H885519		0.5	2	1.1	1.1	12	<0.5
H885520		1.9	10	14.3	6.1	263	2.7
H885521		1.9	5	385	5.8	375	2.2
H885522		3.5	3	560	8.5	784	6.3
H885523		3.3	3	2120	7.6	483	5.2
H885524		1.3	3	205	6.7	142	3.0
H885525		2.6	13	790	5.1	300	11.8
H885526		1.9	17	14.5	14.0	776	4.6
H885527		0.2	8	1.3	5.3	148	6.3
H885528		0.2	4	0.7	5.6	51	5.0
H885529		2.7	39	21.3	25.5	1480	22.0
H885530		6.9	15	217	9.5	307	17.2
H885531		7.4	16	246	13.1	502	13.1
H885532		5.4	15	267	7.7	256	26.9
H885533		4.5	15	412	6.6	445	10.0
H885534		0.6	1	0.8	0.9	16	1.0
H885535		0.4	19	67.0	7.2	35	8.4
H885536		5.2	15	283	8.0	415	12.5
H885537		5.0	19	365	8.6	608	18.7
H885538		6.5	28	194.5	16.5	572	18.9
H885539		6.4	117	24.5	38.3	630	82.2
H885540		3.6	40	16.1	39.2	1020	14.2
H885541		2.1	21	58.8	33.5	1160	5.5
H885542		0.3	6	2.5	8.8	153	5.4
H885543		0.8	32	4.1	9.6	408	21.3
H885544		0.3	10	2.0	6.2	299	4.7
H885545		2.6	91	2.9	27.9	717	13.5
H885546		2.2	101	3.3	23.1	541	32.6
H885547		2.2	161	8.5	14.2	221	78.3
H885548		0.8	77	2.1	12.0	83	46.5
H885549		0.5	147	3.5	11.8	119	36.9
H885550		0.8	32	0.9	10.9	60	32.0
H885551		0.4	295	1.3	13.0	154	20.2
H885552		0.4	216	1.5	16.6	45	16.7

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H885517 TO H885552.**

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To: ATAC RESOURCES LTD.
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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088876

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE VA09088876

Project: RAU

P.O. No.: Batch 39

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 11-SEP-2009
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CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H885517		0.86	2.71	1.24	0.26	>10000	40	<0.05	474	0.50	0.75	9.62	3.7	2	0.15	13.5
H885518		1.42	1.22	0.61	0.25	>10000	10	0.13	67.2	0.80	0.87	12.35	3.3	<1	0.13	11.5
H885519		3.90	0.02	0.06	0.07	72	10	0.05	0.53	18.25	0.06	1.62	0.9	<1	0.19	2.3
H885520		1.70	1.62	0.89	0.18	>10000	10	<0.05	88.3	0.71	0.84	13.40	1.8	<1	0.09	13.1
H885521		2.08	3.18	1.70	0.20	>10000	10	0.05	207	0.58	0.75	44.0	1.2	<1	0.18	4.8
H885522		3.94	11.65	16.50	0.26	>10000	30	0.06	431	0.93	2.69	49.1	1.0	<1	1.12	8.4
H885523		1.38	4.01	14.75	0.15	>10000	20	<0.05	567	1.04	2.59	13.25	1.3	<1	1.00	4.0
H885524		0.28	0.98	1.56	0.11	>10000	20	<0.05	343	12.70	0.85	50.9	1.6	6	0.62	17.6
H885525		0.60	3.88	15.50	0.22	>10000	50	0.08	1700	1.25	4.19	31.4	0.9	<1	0.33	7.3
H885526		0.30	0.36	1.73	0.48	>10000	30	0.13	27.6	0.93	1.79	14.45	2.2	1	0.09	11.4
H885527		6.50	0.02	0.13	0.37	128	140	0.14	0.79	35.3	1.07	6.36	2.1	8	0.62	4.1
H885528		1.24	0.15	0.44	0.16	125	120	0.06	0.28	37.9	0.80	5.08	1.4	3	0.19	2.0
H885529		4.78	0.39	2.11	0.91	>10000	820	0.45	49.7	0.87	6.62	23.1	9.4	17	2.70	48.0
H885530		9.06	6.83	1.04	0.49	>10000	2150	0.18	715	3.19	3.40	9.36	1.8	13	4.48	14.3
H885531		4.16	4.89	0.50	0.47	>10000	1660	0.16	574	3.49	6.84	13.20	1.2	10	4.30	14.6
H885532		3.90	18.90	1.14	0.44	>10000	1110	0.10	639	3.39	4.14	10.90	0.8	13	2.28	9.5
H885533		9.36	1.46	0.29	0.34	>10000	3850	0.12	303	1.39	4.60	8.84	2.0	14	3.73	12.3
H885534		4.12	0.03	0.01	0.06	343	30	0.08	1.04	19.80	0.06	1.38	0.7	<1	0.12	2.5
H885535		0.28	0.49	0.78	0.83	6300	110	0.29	105.5	13.00	0.16	33.7	5.6	14	2.03	32.3
H885536		9.90	1.90	0.25	0.45	>10000	2520	0.13	613	1.71	5.21	12.05	1.9	8	4.01	8.1
H885537		8.74	3.36	1.34	0.56	>10000	2750	0.29	841	1.56	4.70	11.65	1.9	13	1.35	10.1
H885538		1.86	0.65	2.35	0.90	>10000	1700	0.30	565	2.50	4.59	16.20	4.0	21	4.17	22.6
H885539		3.14	0.36	0.25	4.68	>10000	1910	1.96	35.3	1.39	5.38	49.5	11.0	73	5.18	45.4
H885540		4.70	0.49	1.19	1.60	>10000	330	0.90	56.7	2.35	8.17	28.3	5.3	17	0.92	35.8
H885541		3.70	0.41	6.29	1.54	>10000	300	0.65	73.9	11.05	5.81	23.5	4.1	18	0.31	26.9
H885542		9.98	0.11	0.09	0.20	2310	130	0.21	3.68	19.05	0.79	7.53	1.7	1	0.27	2.0
H885543		6.12	0.09	0.13	1.07	4800	810	0.55	8.38	15.70	1.20	10.95	6.3	10	1.22	12.3
H885544		4.00	0.08	0.10	0.23	2900	130	0.20	3.55	14.30	0.93	6.75	3.8	2	0.18	3.5
H885545		2.82	0.31	0.30	1.55	>10000	360	0.76	2.67	7.14	3.90	36.7	15.7	23	0.62	26.2
H885546		1.98	0.34	0.28	3.08	>10000	730	1.14	2.54	8.08	2.78	32.5	12.9	26	1.36	19.4
H885547		7.88	0.13	0.73	3.84	3270	1070	1.09	1.69	12.65	1.08	44.3	16.6	27	2.58	26.4
H885548		6.82	0.05	0.06	3.57	971	680	0.83	0.88	14.50	0.41	64.9	24.2	20	2.59	28.6
H885549		6.24	0.05	0.08	6.34	936	1140	1.40	1.55	11.45	0.76	71.1	23.0	41	4.00	23.4
H885550		0.26	<0.01	0.13	1.65	93	340	0.48	0.37	21.6	0.36	23.8	19.8	37	2.30	7.9
H885551		1.48	<0.01	0.49	8.72	42.7	1190	1.22	0.19	3.27	0.26	64.1	41.5	386	5.88	59.2
H885552		1.90	<0.01	0.36	6.88	31.5	920	0.98	0.17	6.79	0.04	50.5	50.7	277	6.62	71.2

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 11-SEP-2009
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CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
H885517		45.1	1.92	0.71	0.2	0.03	0.093	0.02	4.9	0.8	0.23	3650	5.19	0.01	0.5	14.0
H885518		49.5	1.27	0.46	0.1	0.02	0.170	0.02	5.8	0.4	0.20	3450	2.02	0.01	0.3	16.6
H885519		0.47	0.26	<0.05	<0.1	<0.01	0.009	0.03	0.8	1.2	11.75	179	0.12	0.01	0.3	1.3
H885520		>50	0.91	0.43	0.1	0.02	0.178	0.02	7.5	0.3	0.16	2410	1.43	<0.01	0.5	7.3
H885521		>50	1.20	0.38	0.1	0.07	0.116	0.03	30.4	0.4	0.21	1680	0.60	<0.01	0.4	4.7
H885522		>50	1.27	0.47	0.2	0.24	0.232	0.06	32.9	0.5	0.12	1340	0.56	<0.01	0.5	4.5
H885523		49.8	1.17	0.25	0.1	0.07	0.180	0.05	6.9	0.6	0.11	1500	0.36	<0.01	0.5	6.6
H885524		16.05	0.92	0.18	0.1	0.02	0.086	0.06	32.9	1.8	6.92	2180	5.78	<0.01	0.5	7.2
H885525		49.0	1.69	0.57	0.3	<1	0.106	0.08	19.5	0.7	0.37	1850	0.93	0.01	0.6	5.8
H885526		>50	1.09	0.48	0.1	<1	0.369	0.02	5.9	0.4	0.29	2180	0.52	0.01	0.6	9.5
H885527		0.66	1.01	0.07	0.1	0.01	0.009	0.14	5.7	1.9	0.58	291	0.12	0.01	1.6	5.5
H885528		0.41	0.44	<0.05	0.1	0.04	0.010	0.06	5.4	0.6	1.13	309	0.06	<0.01	0.9	4.9
H885529		46.8	4.57	0.57	0.6	<1	0.142	0.12	18.2	1.7	0.39	2000	2.00	<0.01	2.4	43.4
H885530		45.3	3.42	0.41	0.4	<1	0.209	0.20	4.4	1.5	0.12	811	3.53	0.01	1.9	8.0
H885531		45.4	3.33	0.42	0.3	<1	0.320	0.15	6.1	0.8	0.16	831	2.69	0.01	0.7	6.1
H885532		24.0	3.11	0.22	0.7	0.2	0.242	0.18	6.0	1.4	0.12	527	1.15	0.02	1.8	2.9
H885533		>50	3.33	0.45	0.3	<1	0.095	0.11	4.8	1.1	0.13	615	6.03	<0.01	0.6	8.6
H885534		0.49	0.24	<0.05	<0.1	0.1	0.006	0.02	0.6	1.2	13.05	184	0.27	<0.01	0.3	2.2
H885535		15.05	3.77	0.19	0.3	<0.1	0.074	0.42	19.3	4.1	7.32	2150	15.55	0.02	3.7	22.5
H885536		>50	3.50	0.49	0.3	<1	0.116	0.23	6.4	1.7	0.09	490	6.77	<0.01	0.9	7.8
H885537		>50	4.52	0.48	0.5	<1	0.121	0.19	6.3	1.2	0.15	925	5.19	<0.01	2.0	9.1
H885538		49.5	6.33	0.41	0.5	<1	0.251	0.18	8.6	1.3	0.14	1430	2.10	0.01	0.8	16.9
H885539		31.6	20.5	0.49	2.1	<1	0.203	1.37	28.3	17.1	1.65	886	0.64	0.02	4.3	35.4
H885540		41.8	5.50	0.48	0.4	<1	0.130	0.19	14.1	4.0	0.94	1080	0.56	<0.01	1.1	17.2
H885541		22.6	1.59	0.22	0.2	<0.1	0.116	0.08	11.7	1.8	6.01	1430	1.19	<0.01	0.7	15.6
H885542		3.73	0.93	0.05	0.1	<0.01	0.021	0.07	5.5	1.7	11.60	894	0.16	<0.01	0.8	4.8
H885543		10.20	5.19	0.12	0.5	0.01	0.032	0.45	7.0	3.1	8.69	1190	0.47	<0.01	4.1	19.0
H885544		7.94	0.96	0.09	0.1	<0.1	0.020	0.07	4.3	1.7	8.49	900	0.26	<0.01	0.9	11.8
H885545		33.0	5.68	0.31	0.4	<1	0.066	0.23	17.3	3.0	3.95	1400	0.45	<0.01	1.7	72.6
H885546		21.0	13.25	0.22	0.8	<0.1	0.076	1.04	16.0	6.3	4.74	1140	0.35	0.01	4.1	61.3
H885547		8.82	13.25	0.13	2.0	<0.1	0.035	1.86	22.2	12.8	7.31	829	0.26	0.01	8.9	50.1
H885548		3.87	10.10	0.11	1.1	<0.01	0.028	1.71	30.7	13.2	9.50	733	0.12	0.01	12.5	49.0
H885549		5.09	19.10	0.19	1.0	<0.01	0.043	3.39	36.4	19.0	7.44	726	0.18	0.03	22.4	52.9
H885550		4.23	4.15	0.09	0.8	0.01	0.023	0.87	14.9	9.1	2.72	582	1.03	0.10	8.3	56.2
H885551		11.75	24.6	0.20	0.6	<0.01	0.085	4.33	30.8	40.2	1.29	741	2.48	0.83	18.1	214
H885552		11.15	18.85	0.17	0.5	<0.1	0.064	3.49	24.6	29.2	2.31	1340	1.78	0.34	18.8	227

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

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H885517		180	15.6	2.0	0.008	0.07	14.65	0.9	6	2.6	19.2	0.07	0.75	0.3	0.009	0.34
H885518		320	51.9	2.9	<0.002	0.06	6.81	0.8	6	0.6	29.3	<0.05	0.31	0.3	0.005	0.12
H885519		250	1.7	1.2	<0.002	0.02	0.05	0.3	2	<0.2	51.4	<0.05	<0.05	<0.2	<0.005	<0.02
H885520		310	37.5	2.9	<0.002	0.06	6.05	0.5	6	1.2	25.5	<0.05	0.38	0.3	<0.005	0.11
H885521		230	213	4.5	0.002	0.07	8.67	0.5	7	1.9	20.9	<0.05	0.50	0.3	<0.005	0.17
H885522		230	1640	12.9	0.003	0.09	16.75	0.5	13	16.8	43.5	<0.05	1.23	0.4	<0.005	0.44
H885523		250	332	6.4	0.013	0.11	22.4	0.1	12	5.7	49.3	<0.05	1.40	<0.2	<0.005	0.73
H885524		110	15.9	7.3	0.004	>10.0	22.2	0.4	6	1.2	90.3	<0.05	0.80	0.5	0.009	0.10
H885525		310	500	6.4	0.006	0.19	25.9	0.8	22	11.9	129.0	0.07	3.61	0.6	0.008	0.70
H885526		430	134.0	1.5	<0.002	0.06	5.71	0.6	3	1.6	20.4	0.05	0.16	0.2	0.005	0.12
H885527		100	16.4	6.1	<0.002	0.02	0.84	1.4	2	0.2	126.0	0.08	0.08	0.4	0.041	0.10
H885528		70	5.5	2.5	<0.002	0.01	0.42	0.7	1	<0.2	134.0	<0.05	<0.05	0.2	0.023	0.03
H885529		600	39.1	10.2	<0.002	0.01	13.55	3.1	2	1.0	15.5	0.14	0.26	1.3	0.049	0.34
H885530		530	120.5	35.8	0.002	0.26	77.0	1.4	5	4.6	192.5	0.06	1.22	0.5	0.023	0.80
H885531		630	38.2	34.0	<0.002	0.13	105.0	2.1	5	3.7	173.0	0.06	1.08	0.6	0.019	0.76
H885532		740	36.0	28.2	0.002	0.20	81.3	1.9	5	5.0	215	0.10	1.12	0.4	0.048	0.67
H885533		470	6.7	22.3	0.002	0.20	32.8	1.3	3	3.4	92.6	0.05	0.11	0.6	0.016	0.49
H885534		270	1.6	1.1	<0.002	<0.01	0.14	0.3	1	<0.2	57.9	<0.05	<0.05	<0.2	<0.005	<0.02
H885535		250	13.9	31.3	0.014	>10.0	4.80	1.8	6	3.4	91.8	0.20	0.19	0.7	0.098	0.27
H885536		470	10.8	32.7	0.002	0.27	45.4	1.0	10	4.0	144.0	<0.05	0.14	0.4	0.014	0.69
H885537		530	13.0	11.7	0.004	0.15	40.8	1.6	12	4.0	94.7	0.07	0.29	0.4	0.028	0.32
H885538		620	17.6	23.8	<0.002	0.09	14.35	4.3	3	3.8	106.5	0.07	0.21	1.5	0.021	0.24
H885539		1070	11.9	74.7	<0.002	0.09	4.58	8.3	4	2.9	90.0	0.26	0.22	3.9	0.116	0.42
H885540		570	159.0	11.9	<0.002	0.05	5.95	2.4	6	0.8	44.6	0.07	0.17	0.6	0.018	0.12
H885541		390	164.5	3.8	<0.002	0.02	6.68	1.7	3	0.6	42.3	0.05	0.09	0.3	0.013	0.07
H885542		120	9.7	3.8	<0.002	<0.01	0.61	0.8	1	0.4	46.0	0.05	<0.05	0.2	0.017	0.03
H885543		880	12.9	18.5	<0.002	<0.01	1.51	2.2	3	2.2	57.5	0.22	<0.05	0.6	0.106	0.16
H885544		160	5.6	2.7	<0.002	0.01	1.28	0.5	2	0.4	42.2	<0.05	<0.05	<0.2	0.021	0.04
H885545		1260	6.4	7.5	<0.002	0.05	5.31	3.0	3	0.6	48.2	0.09	<0.05	0.8	0.040	0.14
H885546		950	5.9	29.5	<0.002	0.04	4.15	5.5	3	1.3	49.1	0.25	<0.05	1.0	0.137	0.27
H885547		1950	5.3	51.7	<0.002	0.11	2.86	7.8	2	1.4	80.0	0.52	<0.05	2.2	0.298	0.47
H885548		1980	2.2	47.0	<0.002	0.01	1.40	7.7	1	1.2	67.0	0.72	<0.05	2.1	0.391	0.31
H885549		1530	2.5	84.2	<0.002	0.10	1.40	13.8	2	2.2	58.0	1.37	<0.05	3.4	0.709	0.63
H885550		460	9.9	33.5	<0.002	0.03	1.01	4.7	2	0.7	225	0.49	<0.05	1.7	0.209	0.56
H885551		2340	3.6	106.0	<0.002	0.08	0.42	32.8	1	2.0	41.7	1.04	<0.05	3.8	0.712	1.31
H885552		1910	2.7	81.9	<0.002	0.06	0.23	24.4	1	1.7	50.8	1.11	<0.05	2.8	0.751	1.17

***** See Appendix Page for comments regarding this certificate *****

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

Finalized Date: 11-SEP-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09088876

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H885517		2.5	7	1540	7.5	185	5.9
H885518		2.9	25	5.2	8.5	215	3.4
H885519		0.5	2	1.1	1.1	12	<0.5
H885520		1.9	10	14.3	6.1	263	2.7
H885521		1.9	5	385	5.8	375	2.2
H885522		3.5	3	560	8.5	784	6.3
H885523		3.3	3	2120	7.6	483	5.2
H885524		1.3	3	205	6.7	142	3.0
H885525		2.6	13	790	5.1	300	11.8
H885526		1.9	17	14.5	14.0	776	4.6
H885527		0.2	8	1.3	5.3	148	6.3
H885528		0.2	4	0.7	5.6	51	5.0
H885529		2.7	39	21.3	25.5	1480	22.0
H885530		6.9	15	217	9.5	307	17.2
H885531		7.4	16	246	13.1	502	13.1
H885532		5.4	15	267	7.7	256	26.9
H885533		4.5	15	412	6.6	445	10.0
H885534		0.6	1	0.8	0.9	16	1.0
H885535		0.4	19	67.0	7.2	35	8.4
H885536		5.2	15	283	8.0	415	12.5
H885537		5.0	19	365	8.6	608	18.7
H885538		6.5	28	194.5	16.5	572	18.9
H885539		6.4	117	24.5	38.3	630	82.2
H885540		3.6	40	16.1	39.2	1020	14.2
H885541		2.1	21	58.8	33.5	1160	5.5
H885542		0.3	6	2.5	8.8	153	5.4
H885543		0.8	32	4.1	9.6	408	21.3
H885544		0.3	10	2.0	6.2	299	4.7
H885545		2.6	91	2.9	27.9	717	13.5
H885546		2.2	101	3.3	23.1	541	32.6
H885547		2.2	161	8.5	14.2	221	78.3
H885548		0.8	77	2.1	12.0	83	46.5
H885549		0.5	147	3.5	11.8	119	36.9
H885550		0.8	32	0.9	10.9	60	32.0
H885551		0.4	295	1.3	13.0	154	20.2
H885552		0.4	216	1.5	16.6	45	16.7

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09088876

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE VO09088241

Project: RAU

P.O. No.: Batch 32

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 24-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 16-SEP-2009
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CERTIFICATE OF ANALYSIS VO09088241

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884715		6.25	1.02	0.29	0.70	>10000	250	0.28	278	11.15	1.47	20.0	3.9	7	0.60	18.8
H884716		3.54	0.67	0.41	0.31	6160	160	0.13	467	16.85	1.16	13.05	3.7	1	0.08	13.5
H884717		5.64	0.11	0.12	0.13	2120	120	0.07	38.0	18.95	0.30	11.80	2.0	1	0.21	5.0
H884718		10.11	1.63	4.02	0.59	>10000	140	0.21	382	0.57	2.82	12.00	3.4	2	0.71	26.9
H884719		3.22	0.45	5.82	0.44	>10000	130	0.36	396	0.56	3.86	23.3	5.4	1	0.42	54.4
H884720		4.27	0.01	0.01	0.06	18	10	0.07	0.56	20.0	0.08	1.27	1.1	4	0.13	2.0
H884721		3.02	0.17	2.70	0.22	1460	150	0.15	23.4	23.3	2.43	8.94	2.2	4	0.19	9.2
H884722		7.01	0.07	1.65	0.16	926	80	0.05	16.70	21.7	2.79	10.80	3.0	1	0.20	5.0
H884723		9.58	0.03	4.40	0.19	500	60	0.10	71.5	17.95	5.01	10.95	5.3	1	0.38	7.8
H884724		10.19	0.04	1.00	0.12	433	40	0.11	10.45	19.70	3.87	6.87	2.2	1	0.26	6.5
H884725		10.69	<0.01	0.55	0.08	97	10	0.11	14.90	19.35	1.10	5.91	2.2	2	0.26	2.8
H884726		11.07	0.01	0.98	0.12	235	60	0.07	19.15	18.90	1.81	6.82	1.8	3	0.29	4.1
H884727		5.81	<0.01	0.14	7.58	104.5	1250	0.72	0.75	6.68	0.28	29.1	45.6	235	44.1	23.8
H884728		3.24	0.01	0.49	6.49	386	560	0.80	8.84	2.74	0.37	19.85	126.0	213	27.3	121.0
H884729		3.38	<0.01	0.46	6.90	89	2330	0.72	0.31	10.95	2.55	27.6	43.3	211	43.6	72.3
H884730		1.76	0.01	0.09	5.30	47	410	0.71	1.18	13.90	0.13	23.7	42.8	149	34.4	40.4
H884731		0.23	0.52	0.92	0.83	5060	70	0.17	101.0	12.75	0.15	33.0	5.9	13	1.94	34.1
H884732		4.61	0.01	0.12	0.15	82	30	0.16	356	18.45	1.04	4.40	2.1	3	0.84	14.4
H884733		5.03	0.01	0.02	0.11	37	40	0.13	1.64	19.25	0.50	3.55	1.2	6	0.92	1.3
H884734		2.49	<0.01	0.02	0.12	43	40	0.13	0.65	19.55	0.65	3.74	1.4	4	1.08	1.6
H884735		5.17	0.01	0.05	0.06	107	20	0.12	2.53	18.95	1.30	4.73	1.7	3	0.52	2.2
H884736		5.14	<0.01	0.05	0.07	171	20	0.21	0.91	19.85	4.54	4.38	1.8	6	0.46	2.2
H884737		1.66	<0.01	0.04	0.07	162	10	0.15	0.24	17.80	10.60	6.61	4.1	4	0.28	2.1
H884738		3.61	<0.01	0.05	0.19	421	10	0.20	0.40	18.60	13.55	7.96	3.0	5	0.18	9.1
H884739		3.28	<0.01	0.24	0.41	2000	40	0.28	136.0	15.35	25.1	11.75	7.3	11	0.17	63.3
H884740		4.54	<0.01	0.07	0.15	586	20	0.15	2.32	17.55	8.26	7.83	3.4	4	0.28	15.5
H884741		1.90	0.02	0.69	1.19	>10000	70	0.82	5.10	2.86	35.3	22.1	12.5	45	0.37	375
H884742		0.23	1.53	1.85	0.11	>10000	30	<0.05	357	12.90	0.92	61.0	1.8	6	0.65	18.2
H884743		4.19	<0.01	0.03	0.06	19	10	<0.05	0.33	19.40	0.07	1.08	1.0	2	0.11	2.9
H884744		4.57	<0.01	0.02	0.11	130	20	0.13	0.72	19.70	1.43	3.90	1.9	3	0.67	3.2
H884745		5.07	0.02	0.34	2.64	32	100	1.11	0.52	15.80	0.21	37.6	12.0	28	3.31	75.4
H884746		4.75	0.02	0.24	8.62	86.5	90	2.18	0.95	1.57	0.04	32.2	30.4	368	3.71	50.3
H884747		2.24	<0.01	<0.01	10.05	6.5	4630	3.25	0.09	3.70	0.04	97.6	36.3	440	10.45	44.8
H884748		5.51	<0.01	<0.01	10.45	4.5	3850	3.05	0.05	1.62	0.02	150.5	47.0	177	29.7	78.3
H884749		5.40	<0.01	<0.01	9.97	4.1	2600	3.19	0.06	1.20	0.02	134.5	25.7	197	39.2	10.2
H884750		5.62	<0.01	<0.01	9.91	3.6	2230	2.99	0.06	0.97	<0.02	148.5	29.9	199	25.2	22.8

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Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09088241

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884715		32.8	4.32	0.42	0.5	0.01	0.185	0.09	7.2	2.1	1.99	6010	2.00	0.02	1.5	10.7
H884716		19.15	1.95	0.31	0.3	0.01	0.089	0.01	5.1	0.9	4.77	4010	1.15	0.02	0.8	6.3
H884717		7.53	1.05	0.14	0.1	<0.01	0.080	0.01	4.6	1.3	8.00	4210	0.61	0.02	0.4	2.7
H884718		>50	4.02	0.89	0.5	0.03	0.159	0.16	4.8	1.2	0.22	2080	2.34	0.01	1.1	11.6
H884719		>50	2.16	0.96	0.3	0.04	0.217	0.04	9.6	0.3	0.24	3950	2.20	0.01	0.8	16.7
H884720		0.54	0.26	<0.05	<0.1	<0.01	<0.005	0.03	0.6	0.9	13.45	220	0.18	0.01	0.3	<0.2
H884721		5.89	1.55	0.12	0.2	0.01	0.142	0.04	4.2	1.2	6.33	5280	1.53	0.02	0.5	3.1
H884722		6.91	1.31	0.13	0.1	<0.01	0.125	0.02	4.3	1.3	6.44	6360	1.15	0.02	0.4	0.5
H884723		7.50	1.60	0.15	0.2	0.01	0.134	0.02	4.2	1.6	8.87	6710	0.66	0.02	0.7	4.7
H884724		4.42	0.98	0.11	0.1	<0.01	0.157	0.02	3.0	1.8	9.93	3790	0.46	0.02	0.4	0.4
H884725		2.02	0.63	0.07	0.1	<0.01	0.052	0.01	2.9	2.5	12.45	2210	0.13	0.02	0.2	<0.2
H884726		2.81	0.87	0.08	0.1	<0.01	0.068	0.01	3.4	2.4	12.10	2770	0.21	0.02	0.5	<0.2
H884727		6.18	19.10	0.19	0.5	<0.01	0.049	4.62	15.0	50.0	3.81	804	0.28	0.08	9.7	226
H884728		15.85	16.75	0.30	0.7	<0.01	0.035	3.90	9.8	36.4	3.80	487	0.54	0.09	8.0	273
H884729		4.61	15.70	0.15	0.5	<0.01	0.054	4.18	14.2	39.8	3.05	1160	0.25	0.07	10.2	236
H884730		3.72	12.60	0.14	0.6	<0.01	0.028	3.42	13.0	31.9	5.63	1120	0.36	0.06	7.4	158.0
H884731		14.70	3.61	0.28	0.2	<0.01	0.070	0.41	18.7	4.1	6.94	2060	16.30	0.02	3.8	21.2
H884732		3.60	0.74	0.09	0.1	<0.01	0.007	0.06	2.5	2.8	12.20	587	0.34	0.01	0.3	17.9
H884733		0.71	0.50	0.05	<0.1	<0.01	<0.005	0.07	2.2	2.5	13.45	467	0.10	0.01	0.3	4.1
H884734		0.95	0.59	0.08	<0.1	<0.01	0.006	0.09	2.3	2.5	13.60	501	0.11	0.01	0.3	2.3
H884735		1.82	0.41	0.08	<0.1	0.01	0.009	0.03	3.0	3.3	13.10	568	0.16	0.01	0.2	5.2
H884736		1.50	0.34	0.08	<0.1	<0.01	0.006	0.04	3.1	2.7	13.75	537	0.19	0.01	0.2	5.6
H884737		2.86	0.47	0.09	<0.1	<0.01	0.005	0.02	4.1	2.5	13.50	918	0.18	0.01	0.2	8.5
H884738		3.09	0.34	0.09	<0.1	<0.01	0.009	0.01	5.1	3.2	13.25	676	3.86	0.01	0.2	7.6
H884739		8.55	0.68	0.15	<0.1	<0.01	0.064	0.01	5.9	2.3	12.55	981	4.67	0.01	0.2	25.4
H884740		3.71	0.33	0.09	<0.1	<0.01	0.007	0.02	4.9	2.9	12.60	548	0.80	0.01	0.2	11.3
H884741		42.3	2.82	0.70	0.1	0.01	0.690	0.02	10.8	1.5	2.80	452	3.38	<0.01	0.4	77.5
H884742		17.15	1.06	0.32	0.1	0.01	0.106	0.07	36.7	1.8	7.24	2260	5.57	0.01	0.6	6.6
H884743		0.50	0.23	0.05	<0.1	<0.01	<0.005	0.02	0.5	0.8	13.25	207	0.09	<0.01	0.2	0.8
H884744		0.91	0.47	0.09	<0.1	<0.01	<0.005	0.05	2.5	3.5	13.40	382	0.75	0.02	0.2	4.3
H884745		2.54	5.99	0.12	1.2	<0.01	0.084	1.31	21.3	9.3	5.88	1030	1.00	0.02	16.5	19.8
H884746		12.15	25.1	0.30	0.7	<0.01	0.073	4.40	10.3	14.5	1.15	122	1.34	0.06	16.1	123.0
H884747		3.01	32.0	0.21	0.7	<0.01	0.114	4.80	42.2	29.5	1.48	361	2.25	0.05	46.2	116.5
H884748		8.14	25.4	0.30	0.9	<0.01	0.098	5.04	78.9	41.3	1.58	515	2.00	0.10	82.2	220
H884749		10.30	24.5	0.30	0.9	<0.01	0.095	5.24	73.9	32.2	1.44	427	1.11	0.13	94.7	136.5
H884750		10.00	24.9	0.31	0.5	<0.01	0.079	4.25	84.1	34.3	1.29	359	1.01	0.27	88.3	133.5

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Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09088241

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884715		610	12.0	6.9	<0.002	0.04	13.40	3.7	11	1.0	35.6	0.08	0.39	0.3	0.038	0.20
H884716		260	17.5	0.6	<0.002	0.03	8.94	2.6	7	0.7	45.5	<0.05	0.50	0.2	0.015	0.10
H884717		130	6.3	0.9	<0.002	0.02	1.52	1.8	4	0.4	81.4	<0.05	0.06	<0.2	0.006	0.03
H884718		350	40.3	12.4	0.002	0.06	30.0	1.6	21	1.2	21.4	0.05	0.69	0.3	0.027	0.29
H884719		410	71.9	3.6	0.005	0.08	20.2	1.5	29	0.8	20.9	<0.05	0.72	0.2	0.012	0.33
H884720		210	1.8	1.1	<0.002	0.02	<0.05	0.5	3	<0.2	54.0	<0.05	<0.05	<0.2	<0.005	<0.02
H884721		160	63.1	4.6	<0.002	0.03	1.36	1.2	4	1.9	50.8	<0.05	0.06	<0.2	0.010	0.19
H884722		180	104.0	1.2	<0.002	0.09	1.07	1.5	3	0.7	85.3	<0.05	0.06	<0.2	0.008	0.07
H884723		160	191.0	2.3	0.002	0.92	1.78	1.7	4	1.0	110.0	<0.05	0.13	<0.2	0.013	0.11
H884724		90	86.6	1.5	<0.002	0.12	1.13	1.1	4	0.7	82.5	<0.05	0.06	<0.2	0.009	0.04
H884725		90	49.1	0.7	<0.002	0.21	0.57	0.8	3	0.3	64.0	<0.05	0.05	<0.2	<0.005	<0.02
H884726		140	82.2	0.8	<0.002	0.45	1.00	1.1	3	0.5	80.3	<0.05	0.07	<0.2	0.009	0.03
H884727		800	1.8	359	<0.002	1.71	0.84	26.4	2	11.4	66.2	0.45	0.11	1.8	0.578	3.58
H884728		760	39.8	337	<0.002	>10.0	1.45	22.6	4	6.3	35.8	0.39	0.79	1.5	0.401	2.95
H884729		630	184.5	268	<0.002	0.77	1.72	24.5	2	7.9	102.5	0.46	0.05	1.8	0.522	2.93
H884730		630	1.6	233	<0.002	1.85	0.34	17.8	2	3.7	102.0	0.35	<0.05	1.3	0.369	2.32
H884731		240	14.6	30.4	0.014	>10.0	4.35	2.2	7	3.3	87.0	0.20	0.21	0.7	0.104	0.30
H884732		20	5.1	10.7	<0.002	2.48	3.11	1.1	3	0.3	48.6	<0.05	0.16	0.2	0.008	0.11
H884733		20	2.6	13.0	<0.002	0.31	0.16	0.5	3	0.2	49.4	<0.05	<0.05	0.2	0.006	0.08
H884734		30	3.0	15.4	<0.002	0.53	0.16	0.5	3	0.2	53.1	<0.05	<0.05	0.2	0.006	0.10
H884735		10	6.9	6.3	<0.002	1.31	0.66	0.5	3	0.3	47.4	<0.05	<0.05	<0.2	<0.005	0.06
H884736		20	21.2	5.7	<0.002	0.44	0.89	0.5	3	0.2	37.5	<0.05	<0.05	<0.2	<0.005	0.05
H884737		10	23.3	2.3	<0.002	0.06	0.76	0.8	3	0.2	30.7	<0.05	<0.05	<0.2	<0.005	0.04
H884738		20	48.8	1.8	0.009	0.11	2.17	1.0	3	0.2	35.7	<0.05	<0.05	<0.2	<0.005	0.19
H884739		70	81.4	1.0	0.003	0.07	7.71	2.2	4	0.3	32.4	<0.05	0.16	<0.2	<0.005	0.23
H884740		10	39.2	2.9	<0.002	0.12	3.76	0.8	3	0.2	32.5	<0.05	<0.05	<0.2	<0.005	0.12
H884741		210	271	2.8	<0.002	0.15	10.70	6.8	4	0.3	7.9	<0.05	0.12	0.8	<0.005	0.19
H884742		120	16.2	7.1	0.005	>10.0	22.3	0.6	6	1.2	88.7	<0.05	0.99	0.5	0.009	0.10
H884743		190	1.5	0.9	<0.002	0.03	0.05	0.4	3	<0.2	49.8	<0.05	<0.05	<0.2	<0.005	<0.02
H884744		10	4.0	9.0	<0.002	0.11	0.15	0.5	3	0.3	36.2	<0.05	<0.05	0.2	<0.005	0.06
H884745		160	12.0	47.5	<0.002	2.65	3.62	4.9	2	1.5	88.1	0.85	<0.05	3.2	0.261	0.66
H884746		1950	7.7	103.0	<0.002	>10.0	4.16	33.3	2	3.1	17.6	0.89	<0.05	3.0	0.641	0.95
H884747		2610	1.5	98.7	<0.002	0.77	1.29	39.7	3	5.0	70.7	2.56	<0.05	6.5	1.460	1.21
H884748		3230	1.6	156.0	<0.002	0.31	0.75	23.2	3	4.3	87.6	3.99	<0.05	9.9	1.475	1.97
H884749		2820	0.9	203	<0.002	0.07	0.63	21.3	3	5.3	75.2	4.54	<0.05	10.7	1.400	2.33
H884750		2500	1.0	130.0	<0.002	0.08	0.59	25.0	3	3.5	95.6	4.32	<0.05	10.0	1.625	1.44

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CERTIFICATE OF ANALYSIS VO09088241

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H884715		2.4	16	64.4	26.5	366	17.2	1.10
H884716		1.5	13	129.5	16.8	275	10.6	
H884717		0.5	9	18.2	13.3	83	5.6	
H884718		3.3	14	248	14.4	1760	17.3	1.36
H884719		4.3	17	500	25.2	2460	12.6	1.23
H884720		0.7	5	0.5	1.1	20	<0.5	
H884721		0.5	8	5.4	11.6	298	5.6	
H884722		0.4	9	6.1	13.3	457	6.0	
H884723		0.5	10	295	16.1	867	5.6	
H884724		0.3	7	31.5	8.4	534	3.3	
H884725		0.1	6	3.2	6.6	164	1.7	
H884726		0.2	8	1.4	7.8	271	3.6	
H884727		0.4	177	3.1	15.2	74	15.4	
H884728		0.4	151	3.7	11.3	134	23.7	
H884729		0.4	149	4.3	14.1	487	16.7	
H884730		0.4	123	2.6	14.3	44	22.5	
H884731		0.5	19	62.0	7.3	35	11.1	
H884732		0.5	12	0.9	3.4	171	2.2	
H884733		0.4	9	0.4	2.1	121	1.5	
H884734		0.4	10	0.5	2.2	152	1.4	
H884735		0.3	10	0.7	4.0	220	0.8	
H884736		0.3	9	0.6	4.6	599	0.7	
H884737		0.6	8	0.5	7.1	2150	0.6	
H884738		1.1	9	2.2	8.7	1500	0.5	
H884739		2.7	14	6.9	9.7	3990	0.6	
H884740		0.9	9	2.7	6.6	1060	0.5	
H884741		10.1	30	8.2	21.8	8280	1.6	1.12
H884742		0.9	6	201	7.1	159	3.1	2.66
H884743		0.6	4	0.2	0.9	20	<0.5	
H884744		0.5	8	0.7	2.6	255	1.2	
H884745		0.8	31	1.2	12.0	59	48.3	
H884746		0.6	324	1.6	12.4	18	24.8	
H884747		0.4	332	1.3	23.0	44	22.5	
H884748		0.8	211	1.0	26.8	95	40.1	
H884749		0.6	193	1.8	23.3	98	41.2	
H884750		0.5	223	1.1	22.3	98	19.0	

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09088241

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

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CERTIFICATE VO09088240

Project: RAU

P.O. No.: Batch 31

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 24-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 16-SEP-2009
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CERTIFICATE OF ANALYSIS VO09088240

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H884679		2.08	0.37	1.85	2.99	>10000	1990	1.36	125.5	0.55	7.15	32.2	29.2	47	5.14	31.9
H884680		2.05	1.37	2.00	6.64	2920	1520	1.92	67.2	12.65	4.22	77.8	51.9	42	4.15	45.4
H884681		4.01	<0.01	0.31	5.49	627	910	1.22	0.63	19.30	1.26	72.8	42.2	28	10.50	34.0
H884682		2.61	<0.01	0.42	6.02	831	1100	1.33	0.46	16.70	1.79	70.5	41.1	33	20.3	36.8
H884683		0.24	1.41	1.66	0.12	>10000	30	<0.05	350	13.50	0.74	56.3	1.6	6	0.71	17.6
H884684		1.32	0.01	0.32	9.29	1410	2130	2.40	1.38	2.74	2.13	143.0	104.0	66	24.7	36.3
H884685		2.06	0.13	3.52	8.92	3430	3000	2.37	41.2	0.56	1.71	96.0	43.7	61	4.75	13.7
H884686		2.49	0.18	5.67	7.40	4420	2250	2.72	212	0.46	3.58	8.47	42.4	52	3.01	13.8
H884687		3.93	0.18	3.03	10.60	2210	1830	4.70	76.3	0.23	2.23	73.6	26.1	81	8.44	28.3
H884688		3.52	<0.01	0.03	0.10	9	50	0.08	0.46	21.8	0.08	1.50	1.0	1	0.16	1.7
H884689		2.92	0.51	45.3	1.94	>10000	1160	2.12	1020	1.47	7.45	89.4	16.3	21	2.01	38.4
H884690		4.73	0.02	3.92	9.06	1545	2140	2.58	11.55	0.26	2.18	78.0	27.7	70	11.95	45.1
H884691		3.60	0.02	2.71	9.46	1015	2170	2.19	1.40	0.43	1.87	51.6	30.9	62	11.65	18.2
H884692		1.66	0.08	3.81	10.05	1915	2520	2.29	3.72	0.69	3.97	98.9	41.5	73	15.65	105.0
H884693		2.50	0.13	8.04	5.90	5870	2240	1.80	19.30	0.95	15.90	79.4	32.4	37	4.35	33.9
H884694		4.25	<0.01	1.21	0.27	591	210	0.52	2.77	17.70	3.30	10.20	3.1	9	0.42	8.0
H884695		5.27	<0.01	0.44	0.13	201	140	0.24	1.47	18.45	2.56	4.84	1.4	4	0.15	2.7
H884696		10.83	0.56	0.17	0.89	38	230	0.44	45.5	30.8	0.10	13.75	5.2	21	0.49	168.0
H884697		5.25	0.20	0.20	0.95	17	240	0.41	37.9	32.1	0.11	14.15	5.2	22	0.58	331
H884698		12.44	1.02	0.12	1.75	107	310	0.84	423	13.75	0.02	13.25	8.3	28	2.09	173.5
H884699		11.87	0.12	0.24	1.38	56	260	0.72	23.3	23.4	0.07	23.1	7.0	19	1.14	681
H884700		11.37	0.01	0.06	1.59	33	330	0.75	0.59	20.9	0.05	25.7	8.2	29	1.03	10.2
H884701		11.58	<0.01	0.12	2.07	46	490	1.18	0.34	17.10	0.11	30.9	12.1	31	1.65	27.0
H884702		12.23	<0.01	0.50	8.55	55.9	1250	2.28	0.38	6.06	0.55	135.0	44.5	67	7.16	51.0
H884703		4.28	0.85	0.61	0.15	>10000	270	0.10	146.0	15.90	1.17	15.85	1.1	2	0.37	3.1
H884704		1.55	0.55	0.39	0.11	>10000	70	0.08	75.1	14.70	0.91	15.55	1.1	1	0.30	4.4
H884705		4.25	<0.01	<0.01	0.07	37	20	0.06	0.40	19.80	0.07	1.27	1.2	1	0.15	2.0
H884706		3.94	5.02	2.95	0.15	>10000	260	0.07	116.5	15.30	0.32	9.05	1.1	2	0.31	5.1
H884707		3.67	0.18	0.53	0.10	5360	100	0.08	82.4	19.80	2.29	11.15	0.8	<1	0.23	2.9
H884708		4.71	2.41	0.36	0.41	>10000	720	0.17	152.5	13.70	0.66	7.95	1.6	3	0.49	2.5
H884709		2.22	1.67	0.74	0.27	>10000	700	0.15	94.2	17.80	2.65	11.75	1.7	1	0.37	2.9
H884710		2.18	0.31	0.66	0.19	6390	250	0.09	74.6	17.80	0.58	7.96	1.2	3	0.41	2.8
H884711		2.56	1.72	11.25	0.11	>10000	110	0.16	752	3.47	0.50	14.30	2.1	7	0.11	19.7
H884712		5.84	4.41	4.06	0.21	>10000	60	0.20	955	0.49	0.83	14.15	2.5	7	0.21	36.9
H884713		6.74	8.18	2.05	1.35	>10000	300	0.56	2250	0.83	0.84	17.30	2.2	13	1.08	72.4
H884714		0.24	5.04	0.17	0.11	>10000	30	0.06	461	8.24	0.05	33.1	1.8	13	0.70	37.2

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09088240

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884679		41.6	13.40	0.67	1.2	0.03	0.168	0.86	20.8	8.7	1.01	4350	2.14	0.04	4.1	92.8
H884680		16.40	23.0	0.23	0.8	0.03	0.108	2.05	46.7	10.5	1.71	3220	0.78	0.08	20.0	114.0
H884681		5.62	16.75	0.13	0.3	<0.1	0.065	1.47	40.4	14.4	1.90	2040	0.13	0.04	32.0	89.2
H884682		7.53	17.90	0.15	0.3	<0.1	0.068	1.38	45.9	16.8	2.51	2850	0.15	0.06	48.1	95.6
H884683		17.50	0.93	0.21	0.1	<0.1	0.117	0.07	37.6	1.7	7.33	2250	5.37	0.01	0.4	6.8
H884684		14.15	29.1	0.24	0.4	0.03	0.115	3.20	69.5	22.4	2.29	3030	0.51	0.12	36.1	233
H884685		20.2	30.7	0.29	1.6	0.06	0.052	3.32	49.1	13.2	1.95	252	3.39	0.08	7.1	112.0
H884686		29.3	31.1	0.26	2.4	0.04	0.077	2.04	3.8	10.2	3.06	439	3.36	0.08	6.7	107.5
H884687		16.65	44.6	0.22	0.9	0.02	0.160	4.56	37.3	15.7	1.34	286	1.02	0.12	12.3	115.0
H884688		0.55	0.34	<0.05	<0.1	<0.01	<0.005	0.04	0.8	0.9	13.35	213	0.06	0.01	0.4	0.9
H884689		46.8	9.06	0.70	0.4	0.13	0.150	0.43	55.7	3.1	0.53	638	12.55	0.06	2.0	66.2
H884690		24.2	23.0	0.33	0.4	<0.1	0.126	4.06	36.3	11.2	0.75	1990	1.06	0.11	61.0	89.8
H884691		27.6	24.4	0.84	0.2	0.01	0.102	3.99	22.6	9.3	0.95	2270	0.53	0.11	36.9	104.0
H884692		18.00	30.1	0.27	0.5	0.04	0.139	4.27	47.7	12.7	0.77	1160	0.79	0.14	31.2	129.0
H884693		38.1	14.75	0.44	0.6	0.06	0.123	2.08	36.7	6.3	0.57	2390	1.71	0.07	5.2	102.5
H884694		4.36	1.28	<0.05	0.2	0.01	0.016	0.07	4.8	3.3	11.60	553	4.40	0.02	0.7	13.4
H884695		1.93	0.80	<0.05	0.1	0.01	0.022	0.02	2.4	3.3	12.35	478	5.13	0.02	0.3	4.3
H884696		1.60	3.04	<0.05	0.6	<0.01	0.061	0.46	11.2	2.7	1.27	1490	0.19	0.01	5.0	10.4
H884697		1.60	3.22	<0.05	0.6	<0.01	0.069	0.48	11.3	2.9	1.37	1640	0.20	0.01	5.0	9.6
H884698		6.57	9.09	<0.05	1.1	0.01	0.071	0.92	6.3	10.1	6.26	7160	0.39	0.01	7.3	22.9
H884699		3.27	4.36	<0.05	0.5	<0.01	0.106	0.69	16.1	3.4	1.69	1920	0.16	0.01	6.4	19.9
H884700		2.84	4.79	<0.05	0.9	<0.01	0.027	0.80	20.9	3.9	1.10	297	0.36	0.01	8.2	21.5
H884701		5.98	6.16	<0.05	0.7	<0.01	0.030	0.94	23.0	4.2	1.50	355	0.44	0.01	9.5	29.1
H884702		9.21	27.7	0.16	3.6	<0.01	0.175	3.81	62.8	12.3	2.04	311	0.32	0.09	63.4	112.5
H884703		11.10	1.33	0.08	0.1	0.01	0.125	0.05	7.9	1.7	7.43	4960	0.55	<0.01	0.6	0.8
H884704		12.15	0.97	0.10	0.1	<0.01	0.108	0.04	7.3	1.9	7.68	4500	0.44	<0.01	0.3	1.0
H884705		0.49	0.19	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.0	12.45	202	0.15	<0.01	0.2	<0.2
H884706		13.75	1.38	0.14	0.1	0.01	0.110	0.06	3.7	2.0	7.05	5190	0.52	<0.01	0.6	1.5
H884707		7.83	1.02	0.07	0.1	<0.01	0.135	0.04	4.8	1.8	8.19	5060	0.24	<0.01	0.4	<0.2
H884708		18.45	3.33	0.17	0.3	0.01	0.143	0.15	3.0	2.2	4.34	5300	0.43	<0.01	1.9	3.0
H884709		18.60	2.41	0.16	0.2	<0.01	0.113	0.11	4.9	1.3	3.18	7260	0.72	<0.01	0.9	3.0
H884710		12.45	1.09	0.10	0.1	0.01	0.078	0.07	3.0	2.2	6.48	4890	0.71	<0.01	0.7	1.4
H884711		45.3	3.70	0.86	0.1	0.01	0.199	0.04	5.1	1.4	1.45	2120	2.92	<0.01	0.5	8.3
H884712		46.9	3.75	0.77	0.1	0.01	0.170	0.06	5.0	1.2	0.15	1460	1.99	<0.01	0.5	9.2
H884713		42.1	10.30	1.07	1.0	0.3	0.222	0.54	6.7	3.8	0.31	1690	2.54	0.02	1.7	1.2
H884714		23.5	1.13	0.24	0.2	0.01	0.057	0.07	20.8	1.4	4.73	1430	11.75	<0.01	1.3	12.8

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Project: RAU

Finalized Date: 16-SEP-2009
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CERTIFICATE OF ANALYSIS VO09088240

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884679		1260	265	37.7	0.003	0.05	28.3	7.8	4	1.9	26.1	0.23	0.20	3.0	0.125	0.55
H884680		3750	172.5	69.1	0.005	0.01	35.8	13.9	3	2.9	30.9	1.11	0.09	4.3	0.707	0.56
H884681		2660	9.5	78.2	<0.002	<0.01	1.97	11.9	3	1.2	44.3	1.47	<0.05	3.6	1.360	0.56
H884682		2440	6.7	88.5	<0.002	<0.01	4.66	13.2	3	2.5	33.1	2.78	<0.05	3.9	1.585	1.22
H884683		120	16.1	7.2	0.005	>10.0	22.0	0.5	5	1.2	90.8	<0.05	0.87	0.6	0.007	0.09
H884684		3530	21.4	177.0	0.002	0.02	5.56	19.7	3	6.0	35.7	2.05	<0.05	5.5	1.415	2.08
H884685		3160	42.0	103.5	0.003	0.19	22.0	17.8	8	6.7	120.5	0.41	0.58	5.1	0.312	1.00
H884686		2260	163.0	41.9	0.002	0.04	33.7	9.5	6	12.7	69.2	0.36	0.43	2.2	0.293	0.75
H884687		1080	239	225	0.003	0.02	35.0	20.1	4	29.5	38.1	0.64	0.21	5.2	0.408	1.34
H884688		170	2.1	1.8	<0.002	0.01	0.25	0.4	3	0.2	50.7	<0.05	<0.05	0.2	0.009	0.02
H884689		1480	609	32.4	0.011	0.28	113.5	5.5	14	6.5	41.9	0.11	2.46	1.9	0.079	0.55
H884690		1730	39.8	108.5	<0.002	0.16	8.36	15.8	3	2.5	52.8	3.37	<0.05	4.3	2.10	0.73
H884691		2370	12.4	81.1	<0.002	0.04	6.42	13.3	3	2.0	28.7	2.24	<0.05	3.0	1.575	0.84
H884692		4200	57.6	124.5	<0.002	0.12	15.60	18.8	4	2.6	182.5	2.08	<0.05	6.3	1.420	1.31
H884693		4460	236	63.5	0.002	0.05	21.9	9.7	4	1.4	160.5	0.32	0.08	2.8	0.207	1.05
H884694		740	34.8	8.3	<0.002	0.02	2.82	1.1	2	0.7	71.9	<0.05	0.09	0.6	0.015	0.09
H884695		190	15.5	1.8	<0.002	0.01	0.67	0.5	2	1.0	78.2	<0.05	0.05	0.4	0.005	0.03
H884696		430	2.9	14.2	<0.002	0.40	0.72	2.2	2	2.0	150.5	0.32	<0.05	1.3	0.104	0.06
H884697		450	2.9	15.7	<0.002	0.37	0.61	2.2	2	2.8	156.5	0.31	0.05	1.4	0.106	0.07
H884698		950	8.4	33.7	0.003	1.87	3.08	4.0	3	5.1	86.4	0.44	0.32	2.2	0.177	0.23
H884699		620	2.8	21.2	<0.002	0.90	0.36	3.4	2	2.7	171.0	0.39	<0.05	1.5	0.178	0.13
H884700		1020	3.0	25.1	0.002	1.25	0.54	3.8	2	0.8	171.0	0.48	0.06	2.0	0.187	0.18
H884701		1110	4.1	30.6	0.003	1.37	1.03	4.4	2	0.6	126.5	0.59	0.09	2.4	0.235	0.26
H884702		1580	25.7	92.4	<0.002	0.15	3.17	18.5	2	3.1	79.3	4.01	0.05	6.5	2.08	0.30
H884703		150	37.8	4.1	<0.002	0.88	6.24	0.9	3	0.6	111.5	<0.05	0.14	<0.2	0.012	0.14
H884704		110	7.9	3.1	0.005	0.90	6.91	0.9	3	0.4	110.5	<0.05	0.20	0.2	0.007	0.26
H884705		190	1.5	1.2	<0.002	0.02	<0.05	0.4	2	<0.2	55.6	<0.05	<0.05	<0.2	<0.005	<0.02
H884706		140	6.5	4.3	0.002	0.49	5.80	0.9	2	0.5	107.5	<0.05	0.14	<0.2	0.010	0.14
H884707		100	99.3	3.5	<0.002	0.55	4.40	0.9	2	0.7	117.5	<0.05	0.06	<0.2	0.006	0.05
H884708		210	18.0	8.5	<0.002	0.07	8.83	1.1	2	0.9	82.2	0.10	0.34	0.2	0.027	0.23
H884709		210	51.4	7.3	<0.002	0.04	6.74	1.0	2	0.7	67.2	<0.05	0.21	0.2	0.016	0.41
H884710		150	10.5	3.7	<0.002	0.02	3.92	0.9	3	0.3	91.4	<0.05	0.13	0.2	0.012	0.11
H884711		170	17.3	3.3	0.018	0.09	18.65	1.6	10	3.8	21.6	0.05	0.58	<0.2	<0.005	0.44
H884712		190	20.4	4.2	<0.002	0.06	52.7	1.8	17	2.5	11.6	0.06	0.58	<0.2	0.006	0.09
H884713		520	55.6	29.9	<0.002	0.17	105.0	3.8	28	3.7	31.4	0.10	0.68	0.7	0.051	0.36
H884714		70	6.1	7.6	0.002	>10.0	25.2	0.4	9	2.3	58.3	0.07	1.52	0.3	0.007	0.14

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09088240

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H884679		6.4	81	229	32.6	4550	53.8	1.25
H884680		6.8	183	429	24.3	3540	33.7	
H884681		2.9	132	23.3	19.8	425	11.9	
H884682		4.1	147	53.9	20.1	338	14.5	
H884683		0.9	3	199.5	7.9	145	3.1	2.61
H884684		3.5	246	83.3	35.8	675	17.3	
H884685		4.5	265	195.5	14.5	884	71.6	
H884686		6.1	164	252	8.1	3450	104.0	
H884687		3.1	149	219	9.6	2090	35.7	
H884688		1.2	2	1.2	1.0	25	1.3	
H884689		4.9	47	830	14.8	3730	26.0	0.91
H884690		3.1	183	39.7	12.8	2160	14.7	
H884691		2.4	169	12.8	12.3	2490	9.2	
H884692		3.0	249	48.2	22.4	3610	18.8	
H884693		7.9	180	118.5	35.4	3850	27.3	
H884694		4.0	42	13.6	8.1	536	5.7	
H884695		1.3	17	6.1	3.4	246	2.1	
H884696		1.4	35	31.2	9.8	16	22.9	
H884697		1.4	36	15.8	10.2	16	23.4	
H884698		1.9	53	78.9	13.4	17	41.3	
H884699		0.6	44	2.3	12.7	20	20.2	
H884700		1.0	41	1.2	11.6	11	36.0	
H884701		1.1	67	2.1	12.8	24	28.4	
H884702		2.8	248	2.0	18.9	168	141.5	
H884703		1.3	5	129.0	9.6	291	4.5	1.80
H884704		0.9	4	710	11.0	210	3.0	2.80
H884705		0.7	1	3.0	1.0	15	0.8	
H884706		0.4	4	263	8.9	108	4.1	1.64
H884707		0.2	4	11.8	9.6	338	2.8	
H884708		0.8	7	332	9.1	328	11.9	3.02
H884709		1.8	6	255	10.1	1000	7.7	1.91
H884710		0.5	5	109.0	10.2	167	3.0	
H884711		1.6	16	2120	20.4	220	3.2	1.41
H884712		2.1	17	88.1	14.6	271	6.0	1.19
H884713		3.6	43	141.5	14.2	627	39.1	1.92
H884714		0.5	5	36.0	4.5	9	5.2	2.17

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09088240

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE VA09087329

Project: RAU

P.O. No.:

This report is for 17 Rock samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test

ANALYTICAL PROCEDURES

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

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 6-SEP-2009
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CERTIFICATE OF ANALYSIS VA09087329

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H237978		1.08	<0.01	0.68	0.92	1250	220	0.28	25.9	1.78	0.60	7.66	35.0	6	3.05	631
H237979		0.84	0.21	7.95	0.46	3230	1550	0.28	77.8	0.22	18.10	60.1	15.0	10	0.68	239
H237980		0.62	0.90	53.5	0.11	>10000	3780	0.12	216	0.52	23.0	54.3	2.6	11	0.05	138.0
H237981		0.28	0.13	3.98	0.06	477	280	0.11	2.31	26.9	12.75	15.35	1.4	2	<0.05	8.8
H237982		0.76	0.01	0.77	0.05	114	200	0.19	1.02	22.9	4.97	0.97	1.1	2	0.10	3.9
H237983		1.60	0.06	1.30	0.21	643	90	0.07	1.68	0.20	3.62	4.02	8.8	40	0.06	79.6
H237984		1.00	1.36	80.0	0.05	9000	140	<0.05	63.4	0.49	8.77	82.4	1.9	14	<0.05	26.7
H237985		0.20	<0.01	0.88	3.39	793	1240	1.38	1.48	0.23	3.12	29.8	46.5	61	2.04	120.5
H237986		0.66	<0.01	1.77	8.87	25.1	1850	2.95	0.63	0.07	0.08	126.5	0.8	69	9.23	5.2
H237987		1.66	0.16	5.21	6.19	362	1540	0.89	2.50	0.45	4.77	68.9	97.7	242	2.59	198.5
H237988		0.60	0.39	5.18	0.63	3150	200	0.16	189.0	10.65	5.69	8.91	8.5	28	1.05	95.3
H237989		1.00	0.08	3.06	1.69	85.5	710	0.39	1.45	0.44	4.78	29.5	26.8	51	0.30	318
H237990		Not Recvd														
H248812		0.28	0.03	2.06	1.11	122.0	200	0.13	2.37	0.24	1.78	13.30	62.4	250	0.16	398
H248813		0.54	0.06	7.24	0.18	1175	200	0.06	3.18	9.70	17.00	67.0	6.3	20	0.21	14.2
H248814		1.30	1.03	>100	0.13	50.7	50	<0.05	4.72	0.11	13.25	2.12	0.9	20	0.15	292
H248815		1.88	<0.01	0.69	3.25	78.8	40	10.90	0.35	4.60	0.13	343	19.1	40	17.25	16.0

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Project: RAU

Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09087329

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H237978		45.6	3.98	0.59	0.3	0.121	0.35	4.0	9.2	1.18	125	0.66	0.03	0.9	18.0	50
H237979		44.5	2.90	0.59	0.2	0.792	0.10	33.3	1.7	0.13	704	29.4	0.01	0.4	55.8	1310
H237980		>50	1.92	0.75	0.1	0.136	0.02	32.8	0.3	0.10	160	13.95	0.02	0.3	26.8	370
H237981		7.51	1.42	0.08	<0.1	5.73	0.02	7.4	0.3	0.78	31700	3.79	1.14	0.3	12.2	410
H237982		1.90	0.27	<0.05	<0.1	0.224	0.01	0.5	1.7	4.71	1960	0.55	<0.01	0.1	1.3	190
H237983		>50	0.82	0.69	<0.1	0.034	0.02	2.2	0.4	0.11	187	7.72	<0.01	0.3	32.8	1930
H237984		>50	0.94	0.63	<0.1	0.560	0.01	56.8	0.3	0.15	18	5.30	<0.01	0.3	9.2	390
H237985		37.1	11.20	0.60	1.2	0.165	1.34	13.7	5.1	0.43	566	10.90	0.02	2.8	88.3	4130
H237986		2.44	28.8	0.16	1.8	0.100	3.35	55.2	24.6	0.82	24	2.49	0.05	14.0	9.0	170
H237987		29.2	16.60	0.41	2.0	0.090	2.13	21.9	6.2	0.48	316	7.65	0.05	2.3	540	7230
H237988		40.2	1.88	0.45	0.2	0.088	0.20	6.0	1.9	0.33	667	45.8	<0.01	1.2	88.3	1100
H237989		>50	5.07	0.53	0.5	0.032	0.28	13.6	0.9	0.31	55	11.90	<0.01	1.3	54.0	5650
H237990																
H248812		>50	5.21	0.54	0.1	0.047	0.15	4.5	1.5	0.17	568	25.8	<0.01	0.4	386	6460
H248813		26.6	0.97	0.28	0.1	0.046	0.06	40.4	0.6	0.15	902	1.73	<0.01	0.6	33.1	750
H248814		1.55	0.52	0.28	0.1	3.50	0.04	1.0	1.8	0.02	44	505	<0.01	0.2	6.1	510
H248815		15.70	24.2	0.44	1.2	0.062	2.52	103.5	50.1	2.12	335	1.47	<0.01	6.3	15.5	>10000

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09087329

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H237978		5.5	51.4	<0.002	0.53	0.53	1.4	2	6.3	21.4	0.06	0.86	1.2	0.033	0.45	1.7
H237979		1985	6.8	<0.002	0.15	47.0	2.2	9	5.2	49.9	<0.05	2.32	1.5	0.009	0.63	23.1
H237980		4910	1.7	<0.002	0.26	55.4	0.3	10	9.4	11.2	<0.05	3.05	<0.2	<0.005	0.14	8.4
H237981		268	0.7	<0.002	1.01	11.05	0.7	3	0.3	12.7	<0.05	0.08	0.2	<0.005	0.02	2.3
H237982		87.9	0.3	<0.002	0.01	3.84	0.3	3	0.5	24.7	<0.05	0.06	<0.2	<0.005	0.04	0.6
H237983		726	0.6	<0.002	0.04	30.6	0.6	2	3.4	1.9	<0.05	0.12	<0.2	<0.005	0.17	10.9
H237984		307	0.4	<0.002	0.05	30.1	0.2	8	19.7	3.6	<0.05	7.68	0.3	<0.005	0.06	4.5
H237985		139.0	46.2	0.002	0.05	4.61	6.4	2	1.8	7.8	0.18	0.21	9.8	0.062	0.63	11.1
H237986		400	117.5	<0.002	0.05	4.62	19.5	3	3.7	23.9	0.89	0.05	18.2	0.373	1.13	1.0
H237987		306	54.5	<0.002	0.18	28.7	31.5	6	1.6	178.0	0.15	0.07	3.3	0.083	3.37	13.6
H237988		225	8.9	0.002	0.04	40.4	1.5	8	2.5	5.4	0.06	1.59	0.6	0.024	0.54	18.7
H237989		26.6	9.9	<0.002	0.16	4.58	2.3	3	2.4	13.2	0.08	0.12	1.3	0.022	0.26	8.4
H237990																
H248812		61.5	3.6	<0.002	0.22	5.84	2.3	3	0.4	7.4	<0.05	0.10	1.5	0.005	1.00	24.8
H248813		694	2.5	<0.002	0.03	3.74	1.0	6	0.4	5.2	<0.05	0.10	1.0	0.008	0.48	8.1
H248814		>10000	1.7	0.002	1.91	640	0.5	75	14.9	8.6	<0.05	3.92	0.8	0.005	0.50	4.2
H248815		196.0	116.0	<0.002	>10.0	4.12	12.0	4	0.6	83.4	0.26	0.14	10.8	0.064	1.83	1.4

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Finalized Date: 6-SEP-2009
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CERTIFICATE OF ANALYSIS VA09087329

Sample Description	Method / Analyte / Units / LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	As-OG62 As % 0.01
H237978		14	5.3	3.0	180	8.6				
H237979		62	5.9	11.0	>10000	7.3	1.290			
H237980		28	27.0	4.0	6530	1.7				1.14
H237981		109	0.5	5.9	2900	1.8				
H237982		13	0.7	1.8	1710	0.5				
H237983		55	4.6	3.9	2780	2.1				
H237984		42	123.5	1.1	1360	0.6				
H237985		282	1.2	16.4	1540	56.5				
H237986		84	1.8	7.6	53	65.8				
H237987		181	3.0	33.7	2100	73.3				
H237988		37	59.5	8.4	387	6.4				
H237989		450	1.8	10.6	417	20.2				
H237990										
H248812		330	1.5	9.0	734	3.0				
H248813		16	16.2	5.6	6470	3.5				
H248814		12	0.6	1.6	350	3.6		447	13.45	
H248815		47	2.8	109.5	53	31.8				

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09087329

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	Interference: Mo>400ppm on ICP-MS Cd,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

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Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE VA09087328

Project: RAU

P.O. No.: Batch 37

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 7-SEP-2009
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CERTIFICATE OF ANALYSIS VA09087328

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884895		5.16	11.30	0.22	0.12	>10000	470	<0.05	1330	0.52	3.21	15.80	1.8	<1	0.10	8.3
H884896		0.24	1.76	1.56	0.23	>10000	420	0.12	343	0.54	14.10	34.5	1.5	5	0.16	15.7
H884897		0.54	1.96	7.06	0.52	>10000	1160	0.25	403	4.65	2.25	27.2	2.7	31	2.41	17.1
H884898		0.44	1.21	0.41	1.41	6840	170	0.72	157.5	13.45	2.22	44.2	11.9	8	8.72	8.2
H884899		6.54	0.02	0.20	5.57	156	1170	1.73	2.00	15.10	0.18	89.4	19.6	37	14.80	13.1
H884900		6.20	0.02	0.07	5.28	54	1170	1.54	0.60	16.80	0.12	72.7	22.1	35	9.17	21.3
H884901		7.48	0.01	0.09	0.07	308	10	<0.05	275	19.65	0.22	43.7	1.8	<1	0.48	3.0
H884902		8.30	0.04	0.19	0.28	297	20	0.12	260	18.00	0.60	15.00	2.2	1	1.95	7.6
H884903		8.04	0.27	0.17	0.27	445	50	0.14	67.8	16.95	1.84	7.22	3.0	4	0.57	3.1
H884904		8.32	0.33	0.09	0.55	2120	110	0.26	94.7	16.35	0.32	8.27	3.6	6	0.96	5.8
H884905		0.26	0.59	0.79	0.78	5710	110	0.30	93.2	12.70	0.15	33.5	5.7	12	1.99	31.2
H884906		7.92	0.63	0.16	1.40	2950	250	0.66	13.20	17.30	0.22	18.10	9.3	14	2.63	6.7
H884907		4.02	<0.01	0.14	0.07	14	20	0.05	0.42	20.6	0.06	1.52	0.9	<1	0.16	1.5
H884908		9.12	0.17	0.13	0.20	4050	10	0.09	85.2	16.60	0.05	9.29	3.2	<1	0.39	8.6
H884909		5.12	0.02	0.07	0.03	311	10	<0.05	54.4	17.20	0.11	7.97	6.7	<1	0.30	3.6
H884910		4.78	0.02	0.08	0.06	251	10	0.06	8.60	17.80	0.08	6.07	4.0	<1	0.25	2.1
H884911		5.48	<0.01	0.20	0.05	479	10	0.06	56.6	17.30	0.11	9.91	2.9	3	0.38	7.1
H884912		5.40	0.11	0.16	0.29	1140	10	0.10	185.0	13.25	0.07	10.05	5.2	3	1.45	4.1
H884913		2.72	0.25	0.23	0.20	3040	10	0.14	740	6.43	0.04	3.81	7.0	2	0.69	5.5
H884914		3.86	0.03	0.05	0.10	5	20	0.10	1.37	20.1	0.08	2.11	1.1	3	0.26	3.0
H884915		7.62	0.01	0.06	0.44	100	10	0.14	46.9	14.15	0.08	22.4	5.6	7	1.02	3.3
H884916		8.46	0.02	0.10	0.56	130	10	0.13	324	16.30	0.09	28.5	17.8	6	3.24	7.3
H884917		3.86	0.01	0.12	0.55	148	10	<0.05	715	15.65	0.02	24.8	18.8	6	3.83	11.6
H884918		7.42	0.09	0.14	0.94	143	70	0.36	416	16.00	0.04	22.0	12.3	18	9.27	7.7
H884919		8.06	0.50	0.15	1.85	389	180	0.77	431	14.05	0.05	15.30	23.1	31	14.90	22.1
H884920		7.70	0.46	0.37	1.79	157	240	0.75	312	13.65	1.07	15.15	14.7	49	6.44	21.5
H884921		7.86	0.01	0.22	0.35	86	50	0.30	4.96	16.70	0.70	6.95	4.4	28	0.43	6.5
H884922		6.22	0.02	1.86	0.46	857	50	0.19	66.9	14.35	7.55	13.05	32.9	6	0.57	29.5
H884923		0.26	5.42	0.22	0.12	>10000	30	<0.05	466	8.24	0.05	37.6	2.0	15	0.75	42.8
H884924		7.78	0.01	1.84	0.26	305	20	0.06	70.4	15.00	2.86	11.80	8.9	1	0.56	7.0
H884925		7.60	0.02	0.47	1.36	157	170	0.75	80.4	14.40	0.58	12.55	25.6	17	5.05	7.6
H884926		7.72	0.02	0.09	1.94	51	250	0.90	183.5	13.95	0.23	14.55	9.2	24	7.86	10.3
H884927		1.42	0.22	4.51	0.44	2630	190	0.23	16.65	1.98	22.6	12.75	9.6	11	0.64	40.4
H884928		1.82	0.18	2.85	1.13	278	150	0.17	15.85	5.61	27.1	12.70	11.6	14	1.50	44.0
H884929		1.22	0.03	4.80	1.22	397	70	0.50	22.5	6.92	50.3	9.77	6.0	34	0.84	60.6
H884930		1.34	0.03	17.15	1.16	445	310	0.42	90.7	0.96	82.9	10.75	4.5	14	1.27	259

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Project: RAU

Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09087328

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884895		48.0	0.90	0.54	0.2	0.08	0.172	0.02	7.1	0.8	1.29	3430	1.41	0.01	0.5	19.0
H884896		40.2	1.62	0.47	0.1	0.02	0.185	0.03	16.2	1.2	1.22	2550	0.91	0.02	0.4	6.7
H884897		20.5	3.01	0.26	0.3	0.01	0.081	0.16	14.9	4.0	4.28	2480	4.55	0.02	2.7	11.0
H884898		11.65	5.27	0.20	0.2	0.01	0.110	0.36	23.0	5.2	7.18	3560	0.31	0.03	11.2	32.4
H884899		6.02	17.40	0.22	0.3	<0.01	0.128	3.01	44.6	23.4	0.97	699	0.34	0.06	46.8	62.3
H884900		6.11	16.75	0.21	0.4	<0.01	0.091	2.95	38.8	21.2	1.08	643	0.31	0.05	43.0	52.9
H884901		5.86	0.77	0.15	0.1	<0.01	0.093	0.03	23.3	2.0	8.92	5250	0.11	0.01	0.4	0.9
H884902		6.02	1.94	0.12	0.3	<0.01	0.077	0.13	6.0	2.9	9.35	4770	0.10	0.02	1.5	4.1
H884903		7.32	2.09	0.12	0.2	<0.01	0.080	0.12	2.7	2.4	9.24	4910	0.08	0.01	1.5	4.6
H884904		7.44	4.00	0.11	0.4	<0.01	0.079	0.26	3.2	3.2	8.36	5040	0.27	0.02	2.8	7.3
H884905		13.75	3.56	0.22	0.2	<0.01	0.076	0.37	19.2	4.2	6.59	1970	14.95	0.02	4.0	20.1
H884906		6.85	8.39	0.13	0.8	<0.01	0.051	0.49	10.8	5.0	8.52	2860	0.50	0.04	8.3	20.7
H884907		0.43	0.28	0.08	<0.1	<0.01	0.007	0.03	0.8	1.0	13.10	201	0.12	0.01	0.3	0.5
H884908		9.85	1.33	0.15	0.2	<0.01	0.065	0.03	4.5	1.9	9.48	2580	0.22	0.02	1.0	4.1
H884909		6.23	0.34	0.12	<0.1	<0.01	0.072	0.01	3.1	1.8	10.25	3420	0.08	0.01	0.2	7.5
H884910		4.37	0.51	0.09	<0.1	<0.01	0.042	0.01	3.0	1.7	11.00	2220	0.09	0.01	0.2	4.3
H884911		5.87	0.51	0.14	<0.1	<0.01	0.065	0.01	4.1	2.5	10.45	2650	0.42	0.01	0.2	4.0
H884912		13.80	2.12	0.27	0.3	0.02	0.067	0.09	4.2	2.5	7.90	2270	0.21	0.02	1.3	8.5
H884913		33.0	1.51	0.57	0.2	0.01	0.025	0.05	1.6	1.5	3.49	991	0.31	0.02	1.1	12.2
H884914		0.46	0.39	0.11	<0.1	<0.01	0.009	0.04	1.1	1.5	12.90	196	0.29	0.01	0.5	2.3
H884915		5.64	2.97	0.11	0.4	<0.01	0.036	0.06	12.1	2.5	8.57	3040	0.12	0.04	2.4	7.1
H884916		5.86	3.58	0.12	0.5	<0.01	0.029	0.22	15.1	3.5	9.48	3060	0.11	0.04	2.9	26.6
H884917		6.17	3.62	0.18	0.5	<0.01	0.024	0.28	12.9	3.7	9.66	3060	<0.05	0.03	2.4	27.9
H884918		5.00	5.94	0.12	0.7	<0.01	0.040	0.70	11.0	8.6	9.23	4730	0.17	0.03	4.2	17.7
H884919		6.19	9.69	0.13	1.3	0.01	0.041	1.23	7.1	15.5	7.90	5910	0.58	0.02	8.8	32.0
H884920		5.82	8.18	0.12	1.3	<0.01	0.050	0.89	8.3	13.3	7.24	5540	0.71	0.01	9.3	35.2
H884921		2.77	1.64	0.06	0.3	<0.01	0.170	0.14	3.9	2.1	10.45	3920	0.27	0.01	2.4	15.0
H884922		9.21	2.60	0.13	0.3	0.01	0.161	0.09	5.3	2.5	8.72	7380	0.29	0.03	1.4	35.8
H884923		22.6	1.06	0.32	0.1	0.01	0.104	0.07	23.9	1.6	4.67	1400	10.50	<0.01	1.4	12.9
H884924		6.48	1.75	0.11	0.2	<0.01	0.066	0.03	4.8	2.7	9.37	5750	0.15	0.04	0.9	12.2
H884925		5.52	6.29	0.10	0.9	<0.01	0.106	0.72	6.2	6.2	8.19	4580	0.36	0.02	5.9	32.4
H884926		4.85	8.58	0.10	1.3	<0.01	0.067	1.13	6.1	12.8	7.49	5030	0.26	0.02	9.3	25.7
H884927		22.3	2.59	0.25	0.3	0.04	5.17	0.15	5.7	1.8	0.53	22500	1.85	0.01	1.0	29.5
H884928		18.75	9.69	0.28	0.3	0.02	3.66	0.12	6.4	2.7	2.05	31600	1.27	0.08	0.9	31.2
H884929		24.9	9.25	0.27	0.7	0.02	4.30	0.16	3.8	2.0	2.73	22300	0.69	0.07	1.6	22.1
H884930		40.4	9.96	0.66	0.7	0.08	25.3	0.07	4.3	1.4	0.61	57400	1.76	0.07	0.7	20.1

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CERTIFICATE OF ANALYSIS VA09087328

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884895		210	16.6	1.0	0.006	0.14	17.60	<0.1	2	1.0	4.0	0.07	0.32	0.3	<0.005	0.27
H884896		320	17.2	1.8	0.004	0.08	9.02	1.7	3	0.4	9.7	<0.05	0.34	0.3	0.005	0.17
H884897		230	116.0	18.4	0.005	0.38	8.74	1.8	4	0.9	30.7	0.14	0.44	1.1	0.045	0.43
H884898		700	8.5	46.7	0.002	1.07	4.22	4.0	3	2.9	92.7	0.56	0.14	1.1	0.333	2.05
H884899		2500	4.4	112.5	<0.002	0.05	1.09	12.6	2	2.7	143.5	2.49	<0.05	3.7	1.450	0.58
H884900		2010	4.3	103.5	<0.002	0.10	1.14	11.0	2	2.3	153.5	2.30	<0.05	3.6	1.300	0.48
H884901		100	13.5	2.5	0.005	4.54	5.20	0.6	2	0.3	92.2	<0.05	0.37	<0.2	0.014	0.11
H884902		310	41.5	23.0	<0.002	4.11	4.14	1.1	2	0.9	93.9	0.08	0.30	0.3	0.031	0.19
H884903		290	80.3	7.7	0.002	4.10	2.80	0.8	2	0.8	116.5	0.08	0.11	0.2	0.028	0.13
H884904		550	12.5	13.9	0.002	4.46	3.51	1.4	2	1.2	114.0	0.13	0.15	0.3	0.060	0.27
H884905		220	12.9	28.5	0.014	>10.0	4.18	1.9	6	3.0	80.6	0.20	0.19	0.7	0.105	0.24
H884906		1190	19.0	30.0	<0.002	5.18	1.91	3.5	2	2.4	82.7	0.42	0.10	1.6	0.201	0.48
H884907		220	1.7	1.2	<0.002	0.02	0.09	0.3	2	<0.2	48.1	<0.05	<0.05	<0.2	<0.005	<0.02
H884908		90	6.2	3.8	<0.002	9.85	3.17	0.6	3	0.4	85.5	0.05	0.18	<0.2	0.014	0.13
H884909		60	6.0	0.7	0.005	5.00	2.12	0.9	2	0.2	110.0	<0.05	0.13	<0.2	<0.005	0.11
H884910		60	2.5	1.8	<0.002	3.65	0.76	0.9	2	0.2	79.4	<0.05	0.09	<0.2	<0.005	0.08
H884911		230	5.2	1.4	0.005	4.99	3.10	2.0	4	0.2	100.0	<0.05	0.11	<0.2	<0.005	0.36
H884912		290	4.8	17.3	0.003	>10.0	3.46	2.0	9	0.7	76.6	0.08	0.26	0.5	0.026	0.20
H884913		210	6.3	9.3	<0.002	>10.0	12.40	1.0	22	0.6	34.2	0.06	0.77	<0.2	0.020	0.08
H884914		320	1.5	1.8	<0.002	0.08	0.12	0.3	3	<0.2	52.4	<0.05	<0.05	0.2	<0.005	<0.02
H884915		350	3.9	12.2	0.005	5.28	0.93	2.5	3	1.1	104.5	0.16	0.07	0.7	0.050	0.13
H884916		390	5.4	45.7	0.007	4.99	2.67	2.5	4	1.2	124.0	0.20	0.30	0.8	0.063	0.29
H884917		400	6.3	60.4	0.007	5.29	5.73	2.8	4	1.2	125.0	0.14	0.07	0.5	0.057	0.26
H884918		520	3.0	96.8	0.003	2.40	2.56	3.1	4	2.3	137.5	0.27	0.38	0.7	0.094	0.62
H884919		1260	3.7	89.5	0.006	2.74	4.86	4.3	3	3.0	130.5	0.54	0.40	1.7	0.182	0.88
H884920		1010	64.8	46.5	0.005	1.91	3.66	4.2	3	3.5	94.3	0.60	0.19	1.6	0.191	0.59
H884921		400	29.1	11.5	<0.002	0.50	0.83	1.7	3	11.0	78.7	0.14	0.07	0.5	0.053	0.13
H884922		620	146.0	7.2	0.005	4.34	2.78	2.2	4	6.7	147.5	0.10	0.23	0.2	0.036	0.20
H884923		70	6.9	8.0	0.004	>10.0	23.7	0.5	11	2.1	63.0	0.08	1.45	0.4	0.008	0.16
H884924		300	117.0	2.4	0.006	4.89	1.51	1.9	3	1.2	194.5	0.06	0.13	0.2	0.021	0.12
H884925		790	38.9	58.3	0.002	3.43	1.44	3.4	3	5.7	131.0	0.38	0.23	0.8	0.141	0.41
H884926		1470	12.8	91.8	0.002	1.65	1.84	4.5	3	3.3	168.0	0.57	0.18	1.4	0.240	0.71
H884927		50	410	12.1	<0.002	0.14	3.33	1.2	3	13.9	32.9	0.05	0.14	0.4	0.021	0.21
H884928		40	134.0	21.7	0.015	0.10	3.11	3.4	6	17.8	63.9	0.08	<0.05	0.8	0.029	0.47
H884929		90	247	23.6	0.002	0.24	3.41	5.5	3	30.2	37.9	0.09	0.14	1.0	0.052	0.28
H884930		260	447	11.9	<0.002	0.17	5.75	5.8	3	71.5	54.8	<0.05	0.18	4.0	0.027	0.26

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09087328

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
	Analyte	U	V	W	Y	Zn	Zr	Zn
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.001
H884895		1.6	14	970	13.4	419	4.7	
H884896		1.9	18	415	20.5	556	3.7	
H884897		4.6	15	406	13.0	387	11.6	
H884898		0.8	34	90.2	13.7	695	8.0	
H884899		1.4	126	6.9	22.2	243	14.1	
H884900		0.6	160	2.9	16.0	45	14.2	
H884901		0.4	4	640	14.9	55	3.2	
H884902		1.1	14	61.8	15.4	140	9.7	
H884903		0.4	11	145.5	8.4	346	9.0	
H884904		0.7	24	47.9	9.1	87	15.6	
H884905		0.4	17	53.9	7.1	29	8.0	
H884906		1.4	43	8.2	11.0	68	31.6	
H884907		0.6	1	0.4	1.0	12	0.5	
H884908		0.5	7	63.2	5.7	14	7.3	
H884909		0.4	3	680	9.4	30	1.2	
H884910		0.2	3	55.1	7.2	34	1.7	
H884911		0.5	6	449	13.9	41	1.8	
H884912		15.4	10	393	13.0	18	12.2	
H884913		1.3	5	179.5	5.4	7	11.2	
H884914		0.6	2	1.2	1.2	13	0.5	
H884915		15.0	15	630	13.8	22	16.8	
H884916		8.7	16	730	22.0	18	18.1	
H884917		5.6	16	610	21.6	15	18.9	
H884918		2.4	30	237	18.9	19	26.0	
H884919		2.7	45	248	15.5	18	51.9	
H884920		1.9	42	182.0	14.9	252	49.2	
H884921		0.7	15	8.0	9.0	311	14.4	
H884922		1.9	16	157.5	20.5	1360	12.9	
H884923		0.5	4	35.2	4.7	11	5.2	
H884924		2.9	9	560	16.0	584	6.3	
H884925		3.2	36	41.4	13.5	160	34.0	
H884926		2.4	51	42.6	16.6	70	49.2	
H884927		1.6	11	3.1	6.6	7040	10.7	
H884928		1.8	17	1810	10.7	4880	12.1	
H884929		2.1	23	11.9	10.1	7180	27.2	
H884930		3.2	20	10.5	13.1	>10000	26.7	1.225

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 7-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09087328

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

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Finalized Date: 1[illegible]
Accou[illegible]

CERTIFICATE VO09087194

Project: RAU

P.O. No.: Batch 30

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087194

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	Au-AA26 Au Check ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
H884643		1.72	0.06		0.51	0.81	178	640	0.31	1.59	31.7	0.88	14.75	3.1	17	0.51
H884644		0.80	0.06		1.20	5.31	5060	1290	2.22	20.8	9.18	5.59	42.0	21.0	99	10.70
H884645		2.07	0.04		0.52	0.62	422	6520	0.30	1.60	30.6	1.37	9.65	2.5	9	0.63
H884646		1.89	0.15		0.57	1.90	742	870	0.86	9.73	23.7	2.00	18.50	10.3	34	2.71
H884647		2.70	0.09		0.32	0.81	273	660	0.45	4.44	24.4	0.84	20.0	4.7	12	1.31
H884648		3.62	0.12		0.50	1.32	672	3400	0.56	3.83	23.5	3.08	13.90	3.5	15	1.48
H884649		3.19	0.06		0.41	0.91	896	530	0.38	1.66	27.8	1.20	11.70	2.8	10	0.90
H884650		4.05	0.06		0.37	1.64	775	710	0.68	2.65	25.2	0.47	17.75	5.2	22	1.90
H884651		1.72	0.08		0.40	1.65	742	730	0.69	2.88	24.6	0.42	16.20	5.7	24	1.89
H884652		2.61	0.29		0.84	2.10	8290	1100	0.71	22.7	8.31	3.30	25.4	9.3	41	2.78
H884653		3.80	0.11		0.29	2.07	1850	700	0.69	5.51	23.5	0.80	14.60	7.4	39	3.50
H884654		4.25	0.09	0.08	0.14	1.37	613	410	0.48	2.22	20.7	0.28	11.80	4.6	26	1.68
H884655		1.49	1.63	1.91	0.45	1.62	4560	880	0.51	69.1	15.15	1.51	15.70	8.0	30	3.51
H884656		0.24	5.19		0.21	0.12	>10000	20	<0.05	467	8.68	0.04	40.0	1.7	11	0.77
H884657		1.94	0.15	0.16	0.54	1.07	3380	590	0.36	4.39	24.8	2.15	12.90	6.6	20	1.72
H884658		1.63	0.23		1.36	1.38	>10000	2380	0.50	108.5	11.80	5.39	22.5	16.4	24	1.79
H884659		1.73	0.11		0.65	1.59	5710	840	0.65	41.8	19.90	2.05	14.90	11.1	25	3.85
H884660		1.31	0.12		0.90	1.95	4870	850	0.86	28.3	20.3	2.36	17.05	9.6	23	3.81
H884661		1.15	0.17		0.87	1.34	8710	830	0.53	47.1	16.80	4.07	18.35	12.8	21	1.57
H884662		3.22	0.01		<0.01	0.06	10	<10	<0.05	0.18	19.40	0.07	1.38	1.0	2	0.12
H884663		2.15	0.11		0.54	0.80	1060	370	0.44	2.24	26.4	1.53	11.60	7.6	12	0.87
H884664		2.26	0.11		1.20	2.60	2490	550	0.99	11.40	16.55	5.47	27.6	21.4	50	5.76
H884665		2.19	0.12		0.31	0.95	917	380	0.42	3.07	30.4	1.26	11.80	5.9	17	1.31
H884666		11.53	0.06		0.08	0.22	328	30	0.11	63.2	18.15	0.13	18.70	1.1	2	0.59
H884667		2.04	0.04		0.20	0.62	2290	<10	0.20	151.5	11.65	4.42	21.0	7.9	5	0.65
H884668		8.45	<0.01		0.28	0.54	398	60	0.27	12.55	17.05	1.72	9.88	1.4	8	0.72
H884669		11.55	0.01		0.38	0.20	336	80	0.09	11.25	18.35	1.75	8.98	1.0	4	0.40
H884670		0.24	0.55		0.87	0.78	5770	130	0.36	94.0	12.60	0.14	31.0	5.7	14	1.83
H884671		11.50	<0.01		0.14	0.06	292	30	0.09	0.65	18.70	1.91	7.23	0.9	1	0.29
H884672		7.64	0.02		1.72	0.23	982	910	0.15	16.80	16.85	5.19	8.58	4.3	<1	0.56
H884673		7.80	0.01		1.11	0.03	768	10	0.05	21.7	16.85	3.42	6.58	2.4	<1	0.43
H884674		11.32	<0.01		0.14	0.53	19.9	20	0.20	0.65	0.46	0.11	11.35	0.7	3	0.19
H884675		0.54	2.38		1.17	1.59	>10000	1490	0.60	144.0	0.66	6.49	20.9	29.1	23	2.11
H884676		4.22	0.01		<0.01	0.05	<5	10	<0.05	0.16	20.5	0.07	1.22	1.1	1	0.13
H884677		2.30	0.14		0.53	1.76	3450	820	0.68	14.85	19.55	2.18	16.45	10.7	27	2.89
H884678		1.76	0.10		0.47	1.46	1120	560	0.54	2.31	18.55	0.47	14.50	5.0	24	1.53

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087194

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOR	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
H884643		5.7	1.10	3.09	0.12	0.5	0.01	0.049	0.28	10.4	3.5	1.83	886	0.27	<0.01	5.6
H884644		46.7	14.30	16.90	0.23	1.6	0.05	0.135	1.74	25.4	30.1	1.44	1360	1.43	<0.01	16.5
H884645		3.7	1.33	2.32	0.06	0.3	0.02	0.045	0.16	7.3	4.8	1.62	1080	0.19	0.03	3.9
H884646		14.9	3.16	6.68	0.10	1.1	0.01	0.049	0.68	12.5	12.5	5.72	1400	0.32	<0.01	11.9
H884647		7.5	1.54	3.17	0.07	0.5	0.01	0.045	0.31	13.2	4.9	3.71	1120	0.22	<0.01	4.6
H884648		5.0	2.64	4.68	0.09	0.7	0.01	0.036	0.58	9.6	8.9	5.43	1230	0.41	0.01	6.4
H884649		2.7	2.94	3.60	0.09	0.5	0.01	0.046	0.42	7.5	6.4	3.00	1160	0.47	<0.01	4.8
H884650		6.6	2.73	5.89	0.10	0.9	<0.01	0.038	0.83	12.3	9.7	4.97	1130	0.42	<0.01	8.6
H884651		7.0	2.92	5.99	0.10	0.9	<0.01	0.037	0.86	10.9	11.1	4.63	1180	0.45	<0.01	9.3
H884652		28.0	21.7	10.10	0.24	1.2	0.02	0.102	0.83	15.2	7.7	0.58	1580	2.46	0.01	6.7
H884653		11.8	4.82	7.71	0.08	1.2	0.01	0.030	0.93	9.4	12.6	3.30	1620	0.48	0.01	10.1
H884654		6.5	2.45	5.19	0.06	0.9	<0.01	0.019	0.73	8.1	9.3	7.69	926	0.32	0.01	6.2
H884655		16.4	16.25	8.08	0.18	1.0	0.01	0.054	0.71	10.1	6.6	2.97	1820	2.14	0.01	6.5
H884656		39.8	23.0	1.04	0.31	0.1	<1	0.081	0.07	24.7	1.1	4.71	1440	10.45	0.01	1.4
H884657		6.8	6.65	4.97	0.08	0.7	<0.1	0.033	0.44	8.5	4.3	2.83	1970	1.23	0.01	4.5
H884658		10.9	34.4	6.85	0.42	0.7	0.02	0.102	0.53	11.4	3.5	0.46	2570	4.23	0.03	2.2
H884659		9.8	16.10	7.99	0.18	0.9	<0.1	0.039	0.54	9.6	5.2	0.84	2950	2.81	0.01	6.5
H884660		7.9	15.25	11.50	0.18	1.1	<0.1	0.094	0.83	9.8	5.9	0.76	1950	1.45	0.02	7.8
H884661		11.8	24.3	7.56	0.26	0.7	<0.1	0.157	0.59	11.1	3.1	0.45	1970	2.99	0.01	4.8
H884662		1.8	0.52	0.21	<0.05	<0.1	<0.01	<0.005	0.02	0.6	0.8	12.75	226	0.06	0.01	0.2
H884663		3.8	3.56	3.94	0.06	0.5	<0.01	0.116	0.36	8.1	2.2	2.61	2920	0.93	<0.01	3.7
H884664		35.3	10.25	9.72	0.14	1.1	0.02	0.087	0.84	16.6	15.8	2.23	2060	1.61	0.01	8.3
H884665		4.9	3.14	4.71	0.06	0.6	<0.01	0.030	0.28	7.5	5.6	1.30	1400	0.32	<0.01	4.7
H884666		1.5	6.38	1.72	0.09	0.1	<0.1	0.122	0.11	9.3	3.0	9.89	4590	0.07	0.01	0.7
H884667		9.5	18.90	4.27	0.21	0.5	<0.1	0.056	0.05	8.0	1.7	6.76	4510	0.27	0.05	2.0
H884668		2.7	5.84	4.15	0.09	0.4	<0.01	0.087	0.19	3.7	3.6	9.88	4830	0.21	0.03	1.9
H884669		2.3	3.90	1.37	0.06	0.2	<0.01	0.100	0.03	3.9	3.8	11.10	3810	0.17	0.03	0.5
H884670		30.1	14.10	3.51	0.23	0.2	<0.1	0.064	0.37	17.4	4.4	6.57	1960	17.85	0.02	2.8
H884671		1.9	2.80	0.46	0.05	<0.1	<0.1	0.116	0.01	3.4	2.3	11.70	3140	0.06	0.01	0.2
H884672		16.6	7.33	1.54	0.19	0.1	<0.1	0.171	0.04	3.2	2.1	9.95	5660	0.19	0.02	0.7
H884673		15.8	6.93	0.29	0.11	<0.1	<0.01	0.064	0.01	2.7	1.6	10.40	4190	0.16	0.01	0.1
H884674		3.6	0.57	1.37	0.09	1.2	0.04	<0.005	0.21	6.3	2.8	0.23	125	0.31	0.01	0.7
H884675		23.2	44.3	9.40	0.70	0.7	<1	0.139	0.38	13.2	4.3	0.44	3260	3.02	0.01	2.0
H884676		1.6	0.48	0.21	<0.05	<0.1	<0.01	<0.005	0.02	0.6	0.8	13.25	200	0.07	<0.01	0.2
H884677		10.3	9.02	6.89	0.14	0.9	0.01	0.060	0.65	10.9	8.9	4.51	2830	1.04	0.01	6.3
H884678		4.5	3.85	5.39	0.12	0.9	<0.1	0.033	0.66	10.3	7.1	7.10	1070	0.23	0.01	7.2

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087194

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005
H884643		7.4	780	10.1	10.6	<0.002	0.03	2.13	1.7	2	0.6	92.5	0.31	0.10	1.0	0.103
H884644		115.5	1150	326	78.9	0.004	0.01	34.6	12.2	3	3.9	23.1	0.94	0.14	5.3	0.447
H884645		7.7	260	8.4	6.9	<0.002	0.21	2.37	1.8	3	0.5	255	0.21	0.08	0.8	0.073
H884646		28.7	880	38.6	30.6	<0.002	0.02	6.58	4.2	5	1.3	46.8	0.67	0.10	2.4	0.223
H884647		10.4	310	19.4	14.5	<0.002	0.02	2.33	2.5	2	0.6	64.8	0.25	0.08	1.0	0.097
H884648		11.2	400	43.3	23.4	<0.002	0.12	1.87	2.8	2	0.8	533	0.38	0.08	1.5	0.139
H884649		7.9	280	19.6	17.0	<0.002	0.01	0.99	2.0	2	0.6	96.4	0.27	0.07	1.0	0.100
H884650		16.3	490	6.3	33.1	<0.002	0.02	2.09	3.6	2	1.0	59.6	0.51	0.13	1.8	0.193
H884651		18.8	500	6.3	33.1	<0.002	0.02	2.23	3.8	1	1.1	56.0	0.53	0.06	1.8	0.211
H884652		40.3	760	46.1	42.6	<0.002	0.03	11.15	4.7	3	1.5	23.9	0.40	0.08	1.8	0.184
H884653		29.7	690	9.5	45.3	<0.002	0.01	3.95	4.3	2	1.5	40.2	0.61	0.08	1.9	0.280
H884654		16.9	450	4.8	32.5	<0.002	0.01	1.82	3.5	2	0.9	62.3	0.38	<0.05	1.4	0.172
H884655		29.7	690	18.7	42.8	<0.002	0.02	16.20	3.7	3	1.3	41.3	0.39	0.07	1.9	0.178
H884656		13.4	70	6.2	8.6	<0.002	>10.0	23.6	0.4	9	2.1	59.2	0.08	1.57	0.4	0.008
H884657		18.5	420	24.4	28.8	<0.002	0.04	2.25	2.5	3	0.8	39.4	0.27	<0.05	1.1	0.119
H884658		41.1	680	120.5	36.6	<0.002	0.07	8.77	4.9	4	1.2	43.8	0.14	0.17	1.4	0.088
H884659		35.5	510	38.3	59.9	<0.002	0.03	4.16	3.6	3	1.4	29.4	0.37	0.11	1.4	0.185
H884660		34.9	640	60.1	59.5	<0.002	0.02	5.31	4.3	4	2.6	20.7	0.46	0.10	1.6	0.198
H884661		39.2	650	158.0	45.3	<0.002	0.03	6.66	3.5	3	2.1	21.2	0.28	0.09	1.1	0.130
H884662		0.9	210	1.7	1.2	<0.002	0.01	0.17	0.4	2	<0.2	54.2	<0.05	<0.05	<0.2	<0.005
H884663		15.0	320	55.2	35.1	<0.002	0.01	0.75	2.3	2	2.3	26.9	0.21	<0.05	0.8	0.091
H884664		72.9	630	230	55.4	<0.002	0.01	6.59	7.4	3	3.4	27.5	0.48	0.07	2.8	0.241
H884665		12.0	330	9.1	14.9	<0.002	0.01	1.17	2.4	3	1.0	22.6	0.28	<0.05	0.9	0.110
H884666		1.9	120	8.5	7.5	<0.002	3.43	2.31	0.8	2	0.6	143.5	<0.05	0.11	<0.2	0.017
H884667		20.1	360	41.6	6.3	0.002	4.99	5.65	2.0	4	1.2	94.4	0.12	0.26	1.3	0.055
H884668		2.0	230	74.5	16.3	<0.002	0.54	0.96	1.8	3	3.3	113.0	0.11	<0.05	0.2	0.044
H884669		2.3	70	57.8	2.4	<0.002	0.64	0.77	1.2	3	0.6	114.5	<0.05	<0.05	<0.2	0.010
H884670		21.4	230	12.8	34.2	0.016	>10.0	4.29	1.9	6	2.9	79.7	0.16	0.20	0.6	0.077
H884671		1.3	30	28.9	0.9	<0.002	0.27	0.50	0.8	2	0.3	83.6	<0.05	<0.05	<0.2	<0.005
H884672		7.5	160	245	6.1	0.002	1.12	3.28	1.5	2	2.2	128.5	0.06	0.06	<0.2	0.017
H884673		3.8	40	113.5	1.2	0.002	1.59	3.11	1.1	2	0.8	90.6	<0.05	0.10	<0.2	<0.005
H884674		1.8	30	5.5	10.5	<0.002	0.05	0.23	0.5	1	0.2	22.5	0.06	<0.05	2.8	0.012
H884675		78.1	1110	28.7	19.9	<0.002	0.05	16.80	5.9	3	1.2	26.0	0.12	0.10	4.8	0.060
H884676		1.8	190	1.4	1.1	<0.002	0.01	0.05	0.5	2	<0.2	50.3	<0.05	<0.05	<0.2	<0.005
H884677		29.2	510	40.5	30.9	<0.002	0.01	2.94	4.7	2	1.5	37.2	0.37	0.06	1.6	0.159
H884678		14.8	420	5.4	26.2	<0.002	0.22	1.13	3.2	2	1.0	49.5	0.44	0.08	1.4	0.166

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087194

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	Tl	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.1	1	0.1	0.1	2	0.5	0.01
H884643		0.13	0.8	28	22.5	9.6	187	21.4	
H884644		1.20	3.9	96	287	21.9	4730	61.0	
H884645		0.15	0.5	11	18.4	6.2	294	14.0	
H884646		0.34	1.7	60	53.0	11.2	759	47.1	
H884647		0.22	0.6	24	10.8	13.7	215	20.2	
H884648		0.21	0.9	23	4.1	8.0	571	26.9	
H884649		0.17	0.7	12	2.6	7.9	325	20.1	
H884650		0.33	1.0	27	3.0	10.1	140	34.9	
H884651		0.33	1.0	28	3.0	10.2	141	35.5	
H884652		0.38	3.1	53	16.1	17.7	1040	47.1	
H884653		0.42	1.7	48	4.0	10.0	214	49.8	
H884654		0.22	1.1	34	2.5	8.2	84	35.2	
H884655		0.49	2.6	37	27.5	11.6	533	38.5	
H884656		0.15	0.5	6	37.9	5.0	2	5.7	3.62
H884657		0.39	2.0	24	5.0	9.8	539	27.5	
H884658		0.42	4.0	26	60.5	16.3	1470	27.5	1.01
H884659		0.54	2.8	34	9.9	12.9	587	37.6	
H884660		0.51	2.3	37	24.1	16.6	601	47.4	
H884661		0.30	3.0	33	88.8	19.0	1100	31.1	
H884662		<0.02	0.7	4	0.3	1.1	18	<0.5	
H884663		0.35	0.8	19	3.9	9.4	194	20.5	
H884664		0.55	2.3	58	11.1	18.3	1330	44.0	
H884665		0.16	0.9	28	5.3	9.1	116	26.8	
H884666		0.12	0.4	7	164.0	8.2	40	5.9	
H884667		0.14	6.1	13	74.9	21.3	933	19.6	
H884668		0.13	1.0	15	19.4	12.7	460	15.2	
H884669		0.03	0.4	9	1.2	10.4	308	9.0	
H884670		0.24	0.3	16	61.8	6.9	30	9.5	
H884671		0.03	0.2	5	0.6	8.7	319	1.6	
H884672		0.09	0.8	8	3.3	14.0	1340	7.6	
H884673		0.07	0.5	3	5.3	8.9	864	1.5	
H884674		0.05	0.9	3	0.2	2.7	23	32.1	
H884675		0.26	5.1	48	43.9	25.4	1350	32.7	1.41
H884676		<0.02	0.6	4	0.1	0.9	16	0.5	
H884677		0.54	1.7	37	31.1	12.8	799	33.4	
H884678		0.17	0.9	43	3.6	9.6	202	32.3	

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 13-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087194

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE VO09087193

Project: RAU

P.O. No.: Batch 29

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
PUL-QC	Pulverizing QC Test
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
As-OG62	Ore Grade As - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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Project: RAU

Finalized Date: 16-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087193

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H884607		8.96	0.33	0.82	0.05	>10000	40	<0.05	39.1	17.75	3.72	12.20	2.3	<1	0.36	9.1
H884608		12.90	0.20	2.06	0.07	7210	10	0.06	36.2	17.35	11.10	17.55	1.1	<1	0.44	10.0
H884609		13.21	0.26	0.63	0.13	4040	10	0.05	91.8	16.10	0.90	14.85	1.1	<1	0.39	4.3
H884610		0.24	0.49	0.86	0.82	5410	110	0.30	96.3	13.20	0.13	34.3	6.1	13	1.93	34.9
H884611		12.84	1.29	0.25	0.09	>10000	10	0.07	46.6	17.20	0.73	5.54	0.9	<1	0.30	4.7
H884612		12.96	3.77	0.14	0.09	>10000	20	<0.05	86.4	16.20	0.09	5.69	0.8	<1	0.18	3.7
H884613		12.89	1.40	0.08	0.18	>10000	20	<0.05	83.7	16.50	0.14	8.82	0.9	<1	0.39	4.0
H884614		4.86	<0.01	0.01	0.07	11	20	<0.05	0.32	19.85	0.05	1.16	0.9	<1	0.13	2.7
H884615		13.08	4.79	0.15	0.27	2250	30	0.07	262	14.00	0.15	6.88	1.2	<1	0.48	5.8
H884616		12.32	0.10	0.07	0.14	480	20	<0.05	72.8	17.80	0.06	13.05	0.8	<1	0.32	3.0
H884617		13.11	1.69	0.14	0.32	9830	50	0.08	399	14.70	0.06	12.65	1.0	1	0.74	3.2
H884618		13.62	1.26	0.18	0.24	10000	40	0.08	440	11.40	0.11	12.15	1.1	1	0.34	8.5
H884619		13.48	0.14	0.20	0.55	1400	40	0.17	218	12.90	0.07	10.70	2.9	4	2.24	14.5
H884620		12.77	0.05	0.17	0.09	713	10	0.05	349	13.05	0.08	61.3	2.5	1	0.49	17.8
H884621		12.21	0.02	0.34	0.60	291	60	0.31	127.5	16.95	0.72	16.90	5.0	5	5.02	15.5
H884622		11.89	0.04	0.15	0.07	363	20	0.05	22.3	16.70	0.11	12.55	1.4	1	0.36	3.8
H884623		4.56	0.01	0.08	0.29	35	80	0.16	0.82	35.7	0.68	8.29	1.8	10	0.23	3.8
H884624		2.57	0.01	0.17	1.61	304	320	0.80	2.97	29.2	2.36	16.30	7.3	35	2.37	20.6
H884625		2.04	0.01	0.41	2.43	1240	540	2.66	24.0	21.0	7.07	36.1	12.1	53	2.50	30.3
H884626		4.12	0.01	0.14	0.57	88	130	0.23	0.66	33.9	1.59	11.00	3.0	17	0.46	5.6
H884627		3.64	0.01	0.15	0.79	113	190	0.34	3.36	34.6	1.08	9.93	4.0	17	0.88	11.3
H884628		3.36	0.01	0.13	0.75	107	170	0.29	1.06	33.9	2.18	12.10	2.2	14	0.59	5.3
H884629		3.42	0.03	0.26	0.28	92	250	0.14	15.05	34.9	1.20	7.24	1.8	6	0.60	5.9
H884630		1.42	0.35	0.30	0.12	139	320	0.07	33.2	34.9	2.51	6.82	1.2	2	0.26	4.9
H884631		2.13	0.94	12.15	0.42	>10000	2130	0.37	873	1.73	34.8	15.30	9.2	10	0.56	30.9
H884632		1.33	4.17	9.80	0.24	>10000	620	0.21	817	1.23	3.58	5.81	1.8	9	0.09	12.7
H884633		3.43	15.05	12.60	0.38	>10000	800	1.02	454	0.85	5.36	8.71	4.1	15	0.21	23.8
H884634		3.28	13.15	16.40	0.47	>10000	690	2.44	249	0.64	26.7	10.35	7.9	34	0.17	35.1
H884635		3.68	0.01	0.10	0.06	48	10	0.08	0.33	19.00	0.06	1.48	0.8	<1	0.15	2.1
H884636		2.60	28.5	13.55	0.36	>10000	500	2.06	559	0.55	24.7	14.05	5.5	20	0.11	43.9
H884637		1.98	33.7	11.70	0.52	>10000	690	2.50	595	0.49	31.1	16.70	8.2	16	0.71	34.2
H884638		1.42	35.9	9.11	1.11	>10000	3880	3.54	639	0.30	19.85	15.30	7.4	29	0.85	40.2
H884639		0.24	NSS	0.17	0.12	>10000	30	<0.05	470	8.60	0.06	40.3	1.6	13	0.80	40.2
H884640		2.29	22.5	5.24	1.76	>10000	1020	6.49	461	0.41	17.95	31.8	9.5	51	2.62	36.9
H884641		3.14	41.2	5.22	0.65	>10000	690	6.69	599	0.37	22.3	40.3	7.5	35	0.25	52.2
H884642		0.63	0.98	0.99	3.13	3880	4340	2.20	39.7	0.33	6.09	49.9	14.0	62	5.53	119.0

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Project: RAU

CERTIFICATE OF ANALYSIS VO09087193

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884607		7.86	0.57	0.12	<0.1	<0.01	0.185	0.03	6.6	1.9	10.05	2550	0.17	<0.01	0.2	6.1
H884608		7.63	0.74	0.12	<0.1	0.01	0.153	0.03	11.1	1.9	10.00	2100	0.16	<0.01	0.3	3.0
H884609		11.50	1.13	0.14	0.1	<0.01	0.053	0.04	8.4	1.8	8.98	2860	0.11	<0.01	0.6	3.6
H884610		15.30	3.95	0.23	0.2	<0.01	0.064	0.42	20.0	4.2	6.91	2090	17.35	<0.01	3.0	24.7
H884611		10.20	0.83	0.15	0.1	<0.01	0.081	0.02	2.3	1.8	9.41	3050	0.16	<0.01	0.4	2.9
H884612		11.95	0.94	0.17	<0.1	<0.01	0.094	0.04	2.1	1.7	8.69	3840	0.11	<0.01	0.4	2.8
H884613		11.90	1.37	0.15	0.1	<0.01	0.095	0.06	3.7	2.1	8.79	3990	0.09	<0.01	0.8	3.2
H884614		0.43	0.26	<0.05	<0.1	<0.01	<0.005	0.03	0.5	1.1	12.55	192	0.08	<0.01	0.2	2.8
H884615		14.25	2.13	0.19	0.2	0.01	0.090	0.11	2.6	2.2	7.62	2820	0.17	<0.01	1.3	4.6
H884616		6.94	1.11	0.11	0.1	<0.01	0.106	0.04	5.6	2.6	10.05	3330	0.09	<0.01	0.7	2.8
H884617		11.40	1.71	0.24	0.2	<0.01	0.092	0.15	6.0	2.6	8.49	2530	0.10	0.01	1.6	2.0
H884618		16.95	1.59	0.27	0.2	<0.01	0.081	0.11	5.5	1.9	6.80	2060	0.16	<0.01	1.4	2.1
H884619		14.20	3.69	0.23	0.5	<0.01	0.082	0.23	4.6	3.1	7.78	2360	0.28	0.01	3.2	6.9
H884620		11.30	0.99	0.20	0.1	0.01	0.054	0.02	40.3	2.1	7.80	2830	0.16	<0.01	0.3	6.9
H884621		7.11	3.92	0.13	0.4	<0.01	0.059	0.42	8.9	5.6	9.82	3640	0.14	0.01	2.4	10.7
H884622		6.80	0.73	0.11	<0.1	<0.01	0.092	0.03	6.2	2.5	9.26	4080	0.46	<0.01	0.3	1.5
H884623		0.60	0.83	0.06	0.2	0.01	0.007	0.13	7.5	0.8	0.13	311	0.18	<0.01	1.7	2.8
H884624		2.77	4.41	0.09	0.6	0.02	0.035	0.58	11.1	9.2	0.40	407	0.46	<0.01	4.4	34.4
H884625		11.40	6.62	0.33	1.1	0.03	0.034	0.94	22.7	10.7	0.41	961	0.78	<0.01	8.5	49.3
H884626		0.81	1.58	0.05	0.3	0.02	0.015	0.26	8.5	1.9	0.24	431	0.16	<0.01	3.3	7.3
H884627		1.13	2.18	0.06	0.3	0.01	0.023	0.32	7.7	4.2	0.29	385	0.24	<0.01	3.0	13.3
H884628		0.80	2.21	0.07	0.4	0.01	0.014	0.38	11.2	4.7	0.30	372	0.12	<0.01	4.2	5.1
H884629		1.34	0.93	0.07	0.1	0.01	0.014	0.12	5.2	2.0	0.30	1700	0.46	<0.01	1.1	4.5
H884630		1.76	0.55	0.06	0.1	0.01	0.016	0.04	4.7	0.7	0.24	2480	0.64	<0.01	0.5	2.2
H884631		49.5	5.10	1.23	0.3	0.21	0.217	0.13	11.4	1.1	0.16	11500	8.74	0.03	0.8	33.8
H884632		48.3	2.65	1.12	0.3	0.08	0.157	0.10	3.0	0.9	0.09	1240	6.16	0.01	0.7	10.4
H884633		>50	4.27	1.47	0.2	0.14	0.193	0.15	4.2	0.9	0.10	1500	6.91	0.02	1.6	30.0
H884634		>50	6.71	1.33	0.3	0.40	0.162	0.17	5.2	0.8	0.14	1100	5.20	0.02	1.1	39.6
H884635		0.50	0.23	0.06	<0.1	<0.01	0.005	0.02	0.8	1.1	12.20	184	0.15	0.01	0.3	0.3
H884636		>50	6.11	1.27	0.2	0.26	0.198	0.13	6.1	0.8	0.12	926	10.50	0.02	0.5	33.8
H884637		>50	4.84	1.46	0.2	0.14	0.200	0.17	8.5	1.2	0.14	1640	7.16	0.02	1.4	40.0
H884638		>50	10.75	1.42	0.4	0.09	0.130	0.39	8.7	2.2	0.19	699	4.18	0.03	1.0	48.5
H884639		22.9	1.11	0.27	0.1	<0.01	0.087	0.07	26.0	1.5	4.70	1400	10.55	0.01	1.3	11.9
H884640		47.6	9.15	1.43	0.6	0.07	0.205	0.53	16.1	8.6	0.40	1090	3.18	0.01	2.8	64.5
H884641		>50	6.83	1.80	0.3	0.09	0.687	0.15	20.1	1.1	0.19	1170	2.22	0.02	0.9	48.8
H884642		15.20	14.85	0.21	1.1	0.04	0.213	1.11	26.0	13.4	0.49	929	0.97	0.02	2.7	69.2

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087193

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884607		70	118.5	2.6	<0.002	6.23	4.29	0.6	3	0.5	94.8	<0.05	0.14	<0.2	0.005	0.11
H884608		70	359	3.6	<0.002	7.17	2.95	0.5	3	1.3	79.6	<0.05	0.25	<0.2	0.005	0.09
H884609		130	53.5	5.3	0.002	>10.0	2.35	0.6	3	0.4	109.0	<0.05	0.35	<0.2	0.011	0.08
H884610		240	14.9	31.1	0.016	>10.0	4.54	1.9	7	3.2	92.0	0.18	0.25	0.7	0.089	0.26
H884611		100	29.7	2.3	<0.002	8.02	5.81	0.4	2	0.3	94.9	<0.05	0.13	<0.2	0.007	0.05
H884612		100	4.9	2.6	0.002	>10.0	4.12	0.3	2	0.2	115.5	<0.05	0.13	<0.2	0.006	0.05
H884613		160	4.2	6.1	0.002	>10.0	4.41	0.5	1	0.4	124.0	0.06	0.18	<0.2	0.018	0.12
H884614		230	1.3	1.1	<0.002	0.02	0.06	0.2	1	<0.2	47.9	<0.05	<0.05	<0.2	<0.005	<0.02
H884615		170	4.7	7.9	0.002	>10.0	7.34	0.7	2	0.6	94.8	0.08	0.16	0.2	0.029	0.17
H884616		170	4.3	3.1	<0.002	5.48	2.92	0.5	2	0.3	133.0	<0.05	0.07	<0.2	0.014	0.03
H884617		180	6.1	13.1	<0.002	>10.0	43.9	0.9	8	0.6	100.5	0.09	0.95	0.3	0.033	0.10
H884618		160	7.7	5.8	<0.002	>10.0	28.5	0.9	13	0.6	87.6	0.08	0.71	0.2	0.027	0.08
H884619		380	5.4	23.8	<0.002	>10.0	9.40	2.3	8	1.1	95.6	0.19	0.29	0.7	0.068	0.22
H884620		120	6.0	2.1	0.007	>10.0	11.15	1.7	4	0.3	114.0	<0.05	0.54	0.2	0.005	0.12
H884621		390	23.9	56.1	0.004	6.47	4.09	2.4	2	1.3	133.0	0.14	0.19	0.3	0.056	0.34
H884622		60	4.6	2.0	<0.002	4.80	1.04	0.5	2	0.3	139.0	<0.05	0.07	<0.2	0.005	0.04
H884623		120	3.4	4.7	<0.002	0.01	0.61	1.4	2	<0.2	69.0	0.09	0.10	0.4	0.042	0.05
H884624		220	110.0	28.1	<0.002	0.01	9.16	5.0	2	1.3	93.5	0.24	0.06	1.6	0.138	0.39
H884625		580	421	39.5	0.008	0.01	79.7	8.2	3	4.1	30.2	0.56	0.23	2.5	0.239	0.66
H884626		190	17.2	9.6	<0.002	0.01	2.36	2.2	2	0.3	93.0	0.19	0.08	0.7	0.085	0.08
H884627		180	60.9	13.4	<0.002	<0.01	3.48	2.7	2	0.6	114.0	0.17	0.08	0.9	0.083	0.15
H884628		300	35.0	15.6	<0.002	0.01	1.84	2.9	2	0.3	94.6	0.24	0.05	0.8	0.111	0.12
H884629		90	19.5	6.0	<0.002	0.01	1.43	1.1	2	0.3	108.0	0.06	0.13	0.3	0.025	0.16
H884630		90	13.8	2.6	<0.002	0.01	1.73	0.7	2	0.2	100.5	<0.05	0.10	<0.2	0.010	0.26
H884631		830	108.5	12.2	0.026	0.04	35.1	2.9	4	1.2	24.2	0.07	1.06	0.9	0.020	2.28
H884632		720	69.2	5.2	<0.002	0.03	31.3	1.4	5	2.5	17.0	0.09	0.78	0.4	0.014	0.22
H884633		610	264	12.1	0.032	0.04	58.6	2.1	16	1.3	14.8	0.10	1.06	0.7	0.026	0.44
H884634		1010	316	10.9	0.031	0.04	76.4	3.5	8	1.0	11.9	0.07	0.44	0.6	0.017	0.53
H884635		220	1.6	1.0	<0.002	0.01	0.09	0.3	2	<0.2	56.1	<0.05	0.07	<0.2	<0.005	<0.02
H884636		1080	190.5	7.8	0.026	0.03	105.5	2.9	14	1.4	11.3	<0.05	0.50	0.6	0.009	0.55
H884637		690	466	10.3	0.029	0.03	128.5	3.5	14	1.1	11.4	0.11	0.38	0.9	0.022	0.58
H884638		520	646	24.0	0.039	0.11	148.0	2.5	4	1.6	21.8	0.11	0.41	0.6	0.030	0.56
H884639		60	6.7	7.6	0.004	>10.0	24.0	0.4	9	2.1	58.3	0.08	1.40	0.4	0.008	0.14
H884640		830	1140	32.3	0.013	0.05	164.5	5.4	3	3.0	15.5	0.16	0.11	1.5	0.090	0.69
H884641		980	2050	8.4	0.021	0.02	212	5.5	4	1.0	13.0	0.06	0.15	0.7	0.015	0.40
H884642		960	416	55.6	0.004	0.11	52.2	10.5	2	3.5	113.5	0.16	0.11	4.8	0.105	0.72

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087193

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.01
H884607		0.1	2	135.5	6.0	841	1.7	1.53
H884608		0.3	2	79.5	5.1	2460	2.1	
H884609		0.2	3	230	6.2	182	4.5	
H884610		0.4	18	63.8	7.5	35	8.6	
H884611		0.3	2	86.2	5.6	161	3.0	2.60
H884612		0.2	2	196.0	6.6	28	2.6	1.57
H884613		0.2	2	166.0	7.4	33	5.7	1.43
H884614		0.5	1	0.4	0.9	15	<0.5	
H884615		0.3	4	134.0	7.5	37	8.1	
H884616		0.2	5	40.5	10.2	19	4.8	
H884617		0.3	10	63.6	8.6	17	8.6	
H884618		0.5	9	102.5	6.8	27	7.2	0.98
H884619		8.8	13	52.0	9.3	16	17.4	
H884620		1.2	5	850	11.1	14	2.6	
H884621		1.7	15	510	13.8	137	15.3	
H884622		0.2	2	117.5	6.3	29	2.4	
H884623		0.4	8	7.0	7.0	75	7.6	
H884624		0.8	25	127.5	10.0	1130	20.0	
H884625		3.7	63	1160	21.2	2490	41.3	
H884626		0.5	15	20.9	7.9	186	12.9	
H884627		0.5	11	29.5	7.1	355	14.9	
H884628		0.5	13	13.2	10.7	225	16.6	
H884629		0.2	2	28.1	9.3	156	4.8	
H884630		0.2	3	27.2	12.2	146	2.0	
H884631		7.6	35	319	32.7	2890	23.8	3.26
H884632		4.4	6	269	6.7	845	6.1	3.67
H884633		5.8	22	1140	15.4	1540	24.2	2.79
H884634		4.9	36	1600	18.4	4800	11.5	1.98
H884635		0.8	1	1.0	1.0	20	<0.5	
H884636		5.9	25	1150	18.5	3050	9.3	1.71
H884637		6.0	21	1450	18.6	3970	12.6	1.66
H884638		6.9	26	1830	16.6	6010	16.4	1.08
H884639		0.5	6	36.8	4.7	13	4.4	2.20
H884640		7.0	43	1730	25.5	8110	25.0	1.22
H884641		7.8	36	1870	36.8	7770	10.8	1.36
H884642		3.7	74	650	22.4	3620	40.8	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087193

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

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To: ATAC RESOURCES LTD.
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Finalized Date: 19-SEP-2009
Account: RCM

CERTIFICATE VO09087192

Project: RAU

P.O. No.:

This report is for 115 Soil samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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Project: RAU

Finalized Date: 19-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087192

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC62970		0.16	0.002	<0.2	0.97	23	<10	230	<0.5	<2	5.01	0.6	7	18	23	2.26
CC62971		0.19	0.005	<0.2	1.05	30	<10	270	0.5	<2	4.49	1.2	8	18	24	2.56
CC62972		0.16	0.005	<0.2	0.93	21	<10	280	<0.5	<2	5.76	0.8	6	17	21	2.07
CC62973		0.18	0.005	<0.2	0.70	26	<10	170	<0.5	<2	8.06	0.7	6	13	16	1.77
CC62974		0.10	0.008	<0.2	1.22	25	<10	470	0.6	<2	2.20	1.2	7	20	17	2.34
CC62975		0.14	0.005	<0.2	0.91	31	<10	280	0.5	<2	5.04	0.9	6	16	15	2.11
CC62976		0.14	0.005	<0.2	0.95	26	<10	140	<0.5	<2	4.11	0.9	6	15	16	2.26
CC62977		0.17	0.007	0.2	0.67	20	<10	260	<0.5	<2	9.06	0.7	5	10	11	1.42
CC62978		0.13	0.004	0.2	2.10	27	<10	450	0.8	<2	0.63	0.6	10	31	15	3.44
CC62979		0.13	0.003	<0.2	1.66	15	<10	200	0.7	<2	1.93	0.9	7	24	12	2.89
CC62980		0.17	0.003	<0.2	0.66	29	<10	160	<0.5	<2	9.05	0.6	4	11	13	1.56
CC62981		0.14	0.004	<0.2	1.79	21	<10	410	0.7	<2	0.57	<0.5	10	28	17	2.94
CC62982		0.13	0.002	0.2	1.48	14	<10	230	0.6	<2	2.68	0.5	8	22	14	2.39
CC62983		0.15	<0.001	<0.2	0.26	2	<10	70	<0.5	<2	0.61	<0.5	2	3	6	0.52
CC62984		0.20	0.006	<0.2	1.64	17	<10	210	0.6	<2	0.46	<0.5	8	27	20	3.20
CC64326		0.26	0.001	<0.2	0.22	10	<10	70	<0.5	<2	16.0	<0.5	2	3	4	0.33
CC64327		0.14	<0.001	<0.2	0.63	5	<10	80	<0.5	<2	10.15	0.6	3	7	12	0.86
CC64328		0.20	0.011	<0.2	0.90	7	<10	120	<0.5	<2	8.46	1.0	5	13	11	1.53
CC64329		0.16	0.005	<0.2	0.39	20	<10	100	<0.5	<2	12.40	0.8	3	6	8	0.98
CC64330		0.20	0.001	<0.2	0.46	5	<10	90	<0.5	<2	12.00	1.0	3	7	9	0.88
CC64331		0.14	0.004	0.2	0.86	35	<10	150	<0.5	<2	7.28	1.7	6	14	20	2.01
CC64332		0.19	0.002	<0.2	0.87	28	<10	100	<0.5	<2	8.48	0.7	5	14	11	1.65
CC64333		0.21	0.003	<0.2	0.27	62	<10	40	<0.5	<2	8.92	0.5	4	5	11	1.41
CC64334		0.14	0.006	0.5	1.36	62	<10	240	0.8	2	1.16	1.9	12	26	21	4.04
CC64335		0.12	0.017	0.7	1.14	38	<10	220	0.7	<2	2.52	5.8	10	23	19	3.16
CC64336		0.16	0.008	0.2	0.57	27	<10	100	<0.5	<2	9.31	1.9	5	10	13	1.57
CC64337		0.21	0.012	<0.2	0.39	31	<10	100	<0.5	<2	13.45	2.1	4	9	12	1.13
CC64338		0.11	0.011	<0.2	0.32	7	<10	130	<0.5	<2	3.22	4.5	2	5	11	0.66
CC64339		0.23	0.114	3.5	0.47	223	<10	230	<0.5	20	10.55	5.6	7	12	27	3.62
CC64340		0.21	0.002	<0.2	0.19	14	<10	80	<0.5	<2	15.5	0.9	3	8	8	0.76
CC64341		0.16	0.002	<0.2	0.91	7	<10	120	<0.5	<2	7.31	<0.5	6	13	16	1.53
CC64342		0.16	0.001	<0.2	0.15	6	<10	80	<0.5	<2	13.95	0.5	1	2	7	0.42
CC64343		0.17	0.004	<0.2	1.02	11	<10	140	<0.5	<2	6.48	0.9	6	15	15	1.73
CC64344		0.15	0.002	<0.2	0.77	10	<10	130	<0.5	<2	9.21	0.6	5	12	13	1.37
CC64345		0.19	0.004	<0.2	0.28	9	<10	60	<0.5	<2	14.6	0.8	3	4	7	0.59
CC64346		0.20	0.016	<0.2	0.45	9	<10	70	<0.5	<2	11.75	<0.5	4	9	14	1.07
CC64347		0.15	0.008	0.6	0.40	24	<10	80	<0.5	<2	13.9	0.6	8	6	14	1.48
CC64348		0.18	0.002	0.4	0.67	11	<10	80	<0.5	<2	10.60	0.9	4	10	7	1.21
CC64349		0.14	<0.001	0.5	1.38	3	<10	150	0.5	<2	6.21	1.6	6	18	9	1.94
CC64350		0.10	<0.001	0.4	0.79	5	<10	90	<0.5	<2	5.50	2.1	5	8	8	1.18

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Project: RAU

Finalized Date: 19-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087192

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62970		<10	<1	0.07	10	3.06	564	1	0.02	21	790	31	0.02	<2	2	31
CC62971		<10	1	0.07	10	2.67	820	1	0.01	22	780	50	0.02	3	2	28
CC62972		<10	1	0.06	10	3.49	604	1	0.01	18	810	44	0.02	3	2	28
CC62973		<10	2	0.05	10	4.95	524	1	0.02	14	750	34	0.01	4	2	29
CC62974		<10	1	0.06	10	0.73	718	1	0.02	21	680	38	0.07	2	2	18
CC62975		<10	<1	0.04	10	2.87	743	1	0.01	17	740	41	0.03	<2	2	21
CC62976		<10	<1	0.05	10	2.36	623	1	0.01	18	850	88	0.05	14	1	17
CC62977		<10	1	0.04	<10	6.04	602	<1	0.02	11	720	25	0.03	3	1	22
CC62978		10	<1	0.08	10	0.63	545	1	0.01	26	410	60	0.02	<2	4	15
CC62979		<10	1	0.06	10	1.13	512	1	0.01	18	650	79	0.04	6	2	13
CC62980		<10	<1	0.05	10	6.05	625	1	0.01	13	570	26	<0.01	2	2	28
CC62981		<10	1	0.06	10	0.62	405	1	0.02	23	580	23	0.01	<2	3	15
CC62982		<10	1	0.05	10	1.63	795	1	0.02	18	930	17	0.05	<2	1	13
CC62983		<10	1	0.02	<10	0.23	459	<1	0.01	6	330	6	0.03	2	1	5
CC62984		<10	<1	0.06	10	0.54	425	2	0.01	28	340	35	0.01	2	3	12
CC64326		<10	1	0.01	<10	10.45	338	<1	0.02	<1	450	17	<0.01	<2	<1	32
CC64327		<10	1	0.03	<10	6.49	694	1	0.03	7	820	44	0.08	<2	1	29
CC64328		<10	<1	0.04	10	5.55	833	<1	0.02	10	810	55	0.05	<2	1	26
CC64329		<10	<1	0.03	<10	8.30	821	<1	0.02	7	460	71	0.02	<2	1	32
CC64330		<10	<1	0.03	<10	7.92	664	<1	0.02	5	560	56	0.02	<2	1	30
CC64331		<10	1	0.05	10	4.67	1205	1	0.02	17	870	122	0.05	<2	1	27
CC64332		<10	<1	0.04	10	5.53	754	1	0.02	11	680	33	0.02	<2	2	28
CC64333		<10	1	0.07	10	5.67	437	1	0.02	9	770	56	0.05	<2	1	39
CC64334		<10	1	0.15	10	0.42	1685	1	0.02	26	1660	311	0.13	2	2	20
CC64335		10	<1	0.07	20	1.15	2290	2	0.02	28	1560	407	0.13	3	1	18
CC64336		<10	1	0.04	10	5.80	1030	3	0.02	15	1040	127	0.09	<2	1	45
CC64337		<10	1	0.04	<10	8.79	822	3	0.02	16	590	195	0.04	4	1	58
CC64338		<10	1	0.03	<10	0.56	518	1	0.03	6	1090	28	0.23	<2	<1	21
CC64339		<10	1	0.05	10	6.54	2960	5	0.02	28	990	989	0.04	6	2	52
CC64340		<10	<1	0.02	<10	9.94	1255	1	0.02	5	700	47	<0.01	<2	1	64
CC64341		<10	<1	0.05	10	4.93	685	1	0.02	14	780	23	0.05	<2	1	20
CC64342		<10	<1	0.01	<10	8.66	926	<1	0.02	<1	610	21	0.04	<2	<1	25
CC64343		<10	1	0.05	10	2.90	534	1	0.02	16	890	17	0.05	2	1	20
CC64344		<10	1	0.05	<10	4.55	576	1	0.02	14	650	21	0.03	<2	1	25
CC64345		<10	1	0.03	<10	9.46	679	<1	0.01	4	540	22	0.01	<2	1	24
CC64346		<10	1	0.04	10	7.83	334	<1	0.02	9	660	12	<0.01	<2	1	29
CC64347		<10	<1	0.05	10	9.05	265	3	0.02	8	740	35	0.04	<2	1	34
CC64348		<10	<1	0.04	10	6.96	616	3	0.02	6	840	21	0.04	<2	1	24
CC64349		<10	<1	0.06	10	3.87	1080	3	0.02	10	1050	29	0.08	<2	2	13
CC64350		<10	<1	0.03	<10	3.07	1205	3	0.02	5	1070	26	0.08	<2	1	11

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CERTIFICATE OF ANALYSIS VO09087192

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62970		<20	0.02	<10	<10	30	<10	183
CC62971		<20	0.02	<10	<10	33	<10	318
CC62972		<20	0.02	<10	<10	31	<10	233
CC62973		<20	0.02	<10	10	26	<10	171
CC62974		<20	0.02	<10	<10	38	<10	213
CC62975		<20	0.01	<10	<10	32	<10	245
CC62976		<20	0.01	<10	<10	32	<10	285
CC62977		<20	0.01	<10	10	24	<10	205
CC62978		<20	0.02	<10	<10	67	<10	277
CC62979		<20	0.02	<10	10	63	<10	206
CC62980		<20	0.02	<10	<10	26	<10	172
CC62981		<20	0.02	<10	<10	55	<10	118
CC62982		<20	0.02	<10	<10	45	<10	101
CC62983		<20	0.01	<10	10	6	<10	41
CC62984		<20	0.02	<10	<10	48	<10	155
CC64326		<20	0.01	<10	10	11	<10	86
CC64327		<20	0.02	<10	10	18	<10	209
CC64328		<20	0.02	<10	10	27	<10	299
CC64329		<20	0.01	<10	10	19	<10	214
CC64330		<20	0.01	<10	10	19	<10	164
CC64331		<20	0.02	<10	<10	36	<10	420
CC64332		<20	0.02	<10	10	30	<10	148
CC64333		<20	0.01	<10	10	18	<10	173
CC64334		<20	0.02	<10	<10	80	<10	697
CC64335		<20	0.01	<10	<10	72	<10	1175
CC64336		<20	0.01	<10	10	42	<10	509
CC64337		<20	0.01	<10	10	30	<10	589
CC64338		<20	0.01	<10	<10	11	<10	276
CC64339		<20	0.01	10	10	31	<10	1945
CC64340		<20	<0.01	<10	10	38	<10	269
CC64341		<20	0.01	<10	10	39	<10	88
CC64342		<20	<0.01	<10	10	6	<10	186
CC64343		<20	0.01	<10	<10	38	<10	141
CC64344		<20	0.02	<10	<10	33	<10	116
CC64345		<20	0.01	<10	<10	13	<10	183
CC64346		<20	0.03	<10	<10	22	<10	68
CC64347		<20	0.01	<10	<10	19	<10	191
CC64348		<20	0.02	<10	<10	25	<10	222
CC64349		<20	0.02	<10	<10	34	<10	279
CC64350		<20	0.01	<10	<10	19	<10	227

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CERTIFICATE OF ANALYSIS VO09087192

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC64351		0.13	0.002	0.3	0.81	6	<10	200	<0.5	<2	5.99	0.6	5	12	12	1.33
CC64352		0.10	0.005	0.3	1.59	6	<10	210	0.5	<2	1.89	0.7	7	22	11	2.34
CC64353		0.20	0.006	0.2	0.53	9	<10	160	<0.5	<2	8.67	<0.5	6	11	11	1.45
CC64354		0.15	0.006	0.4	1.55	18	<10	320	0.5	<2	1.11	0.5	8	25	13	2.61
CC64355		0.12	0.004	0.3	1.57	13	<10	330	0.6	<2	0.89	1.3	11	22	17	2.94
CC64356		0.11	0.004	0.5	1.47	18	<10	250	0.5	2	1.29	1.5	10	24	15	2.76
CC64357		0.13	0.002	0.4	1.57	12	<10	220	0.6	<2	1.52	0.6	9	26	10	2.65
CC64358		0.12	0.002	0.2	1.45	5	<10	220	0.5	<2	3.39	1.1	8	20	10	2.20
CC64359		0.14	<0.001	0.2	2.00	8	<10	360	0.6	<2	0.82	0.5	9	31	8	3.03
CC64360		0.14	0.002	<0.2	1.42	12	<10	230	0.5	3	3.20	1.3	8	25	12	2.46
CC64361		0.14	<0.001	<0.2	0.95	9	<10	110	<0.5	3	7.57	0.8	4	12	9	1.33
CC64362		0.15	<0.001	<0.2	0.20	4	<10	40	<0.5	<2	15.7	<0.5	1	2	<1	0.28
CC64363		0.21	<0.001	<0.2	0.16	<2	<10	30	<0.5	2	13.60	<0.5	1	2	<1	0.19
CC64364		0.15	<0.001	<0.2	0.21	2	<10	30	<0.5	2	11.15	<0.5	1	3	<1	0.35
CC64365		0.18	0.004	<0.2	1.31	10	<10	160	<0.5	2	5.90	<0.5	6	18	13	1.82
CC64366		0.16	0.004	<0.2	0.92	7	<10	100	<0.5	<2	6.89	<0.5	5	13	10	1.37
CC64367		0.15	<0.001	<0.2	1.72	13	<10	150	0.7	2	0.53	<0.5	8	25	11	2.35
CC64368		0.16	0.003	<0.2	0.56	7	<10	90	<0.5	<2	8.69	0.8	3	8	4	0.95
CC64369		0.14	0.001	<0.2	2.10	12	<10	150	0.7	<2	0.28	0.5	8	28	10	2.66
CC64370		0.13	<0.001	<0.2	1.64	11	<10	200	0.6	2	1.23	0.6	8	22	8	2.42
CC64371		0.17	<0.001	<0.2	1.16	7	<10	170	0.5	2	1.16	2.1	6	14	6	1.79
CC64372		0.14	<0.001	0.2	1.78	13	<10	200	0.7	5	0.62	0.5	9	25	8	2.65
CC64373		0.14	0.001	<0.2	0.64	9	<10	130	<0.5	2	10.20	0.9	4	9	6	0.98
CC64374		0.13	<0.001	<0.2	0.87	9	<10	220	<0.5	2	3.10	0.9	4	11	6	1.48
CC64375		0.10	<0.001	<0.2	1.52	13	<10	220	0.5	2	0.86	0.9	8	22	11	2.51
CC64376		0.17	0.004	<0.2	0.73	11	<10	90	<0.5	2	2.28	1.8	5	10	8	1.40
CC64377		0.14	0.001	0.2	0.62	58	<10	120	<0.5	5	8.15	2.0	5	10	10	1.51
CC64378		0.17	0.001	0.2	1.61	104	<10	220	0.6	7	1.31	5.8	9	26	14	3.20
CC64379		0.11	0.003	0.3	1.17	48	<10	160	0.5	6	3.48	2.8	8	21	14	2.47
CC64380		0.12	0.004	0.4	1.13	111	<10	230	0.6	11	3.54	1.8	10	25	38	3.07
CC64381		0.12	0.004	<0.2	1.08	31	<10	140	0.5	4	3.25	0.8	9	21	14	2.37
CC64382		0.11	0.005	0.3	1.49	55	<10	270	0.6	4	0.85	2.1	11	26	18	3.03
CC64383		0.16	<0.001	<0.2	1.43	26	<10	360	0.6	4	0.73	1.5	10	22	12	3.13
CC64384		0.12	0.002	0.5	1.61	23	<10	290	0.7	4	0.94	2.5	11	32	17	3.31
CC64385		0.14	0.001	0.2	1.72	19	<10	220	0.7	4	0.65	0.7	10	26	8	2.87
CC64386		0.14	0.134	3.9	0.83	384	<10	460	0.6	31	5.87	3.9	10	23	28	3.94
CC64387		0.21	0.004	0.5	0.19	32	<10	190	<0.5	3	14.60	5.1	1	8	1	1.37
CC64388		0.23	0.114	5.5	0.67	390	<10	1070	<0.5	98	3.78	9.2	14	21	44	6.41
CC64389		0.10	0.019	0.4	0.52	24	<10	160	<0.5	3	5.26	2.6	6	10	15	1.67
CC64401		0.27	0.001	<0.2	0.98	16	<10	120	<0.5	2	7.52	0.6	6	16	15	1.71

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

Project: RAU

Finalized Date: 19-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087192

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64351		<10	<1	0.04	10	3.55	688	2	0.03	10	1090	27	0.08	<2	1	16
CC64352		<10	<1	0.05	10	1.11	468	3	0.03	14	740	22	0.07	<2	2	13
CC64353		<10	<1	0.05	10	5.57	603	2	0.02	11	930	24	0.02	<2	2	27
CC64354		<10	<1	0.11	10	0.72	643	3	0.03	19	780	42	0.07	<2	3	14
CC64355		10	<1	0.08	10	0.51	3520	2	0.02	22	1290	79	0.10	<2	2	14
CC64356		10	<1	0.06	10	0.83	1370	2	0.02	21	1110	63	0.07	<2	2	14
CC64357		<10	<1	0.06	10	0.94	1100	2	0.02	18	1200	40	0.07	<2	2	12
CC64358		<10	<1	0.05	10	1.76	998	2	0.02	10	1380	27	0.08	<2	1	16
CC64359		10	<1	0.06	10	0.59	538	2	0.02	16	700	29	0.06	<2	2	12
CC64360		<10	<1	0.06	10	1.65	675	1	0.03	21	890	22	0.05	<2	2	47
CC64361		<10	1	0.04	10	5.04	770	1	0.03	13	1060	17	0.08	<2	1	20
CC64362		<10	1	0.01	10	10.45	388	1	0.03	4	790	9	0.03	<2	<1	27
CC64363		<10	<1	0.01	10	9.35	274	1	0.03	3	540	3	0.03	<2	<1	26
CC64364		<10	<1	0.01	10	7.44	327	1	0.03	3	580	3	0.03	<2	<1	21
CC64365		<10	1	0.08	10	3.96	687	1	0.04	17	670	22	0.05	<2	2	23
CC64366		<10	1	0.05	10	4.61	469	1	0.03	14	840	9	0.07	<2	1	21
CC64367		10	<1	0.05	10	0.56	385	1	0.02	21	490	20	0.04	<2	3	13
CC64368		<10	1	0.03	10	5.84	698	1	0.03	10	610	22	0.03	<2	1	24
CC64369		10	<1	0.06	10	0.51	415	1	0.03	20	510	16	0.03	<2	2	11
CC64370		<10	<1	0.05	10	0.78	977	1	0.03	17	970	33	0.07	2	2	12
CC64371		<10	<1	0.04	10	0.64	1770	1	0.02	12	790	31	0.05	<2	1	10
CC64372		10	<1	0.06	10	0.57	1020	1	0.03	18	660	49	0.04	<2	2	11
CC64373		<10	1	0.04	10	6.80	576	1	0.03	12	870	37	0.04	<2	1	28
CC64374		<10	1	0.04	10	1.72	1220	1	0.03	11	1040	47	0.07	<2	1	12
CC64375		<10	1	0.06	10	0.55	1120	1	0.03	18	850	47	0.06	<2	2	16
CC64376		<10	1	0.04	10	1.28	1230	1	0.02	11	790	58	0.05	<2	1	11
CC64377		<10	1	0.04	10	5.34	1070	1	0.03	15	970	166	0.06	3	1	26
CC64378		<10	1	0.11	10	0.80	1700	1	0.03	18	920	214	0.06	3	2	14
CC64379		<10	1	0.08	10	2.05	1270	1	0.03	18	1110	175	0.07	3	2	18
CC64380		<10	<1	0.14	10	2.16	1240	1	0.03	38	1130	397	0.09	5	2	19
CC64381		<10	1	0.08	10	2.04	844	1	0.03	23	800	69	0.05	2	2	21
CC64382		<10	<1	0.10	10	0.50	1220	1	0.03	24	970	181	0.08	2	2	14
CC64383		<10	1	0.08	10	0.46	1680	3	0.03	23	1230	95	0.07	2	2	14
CC64384		<10	<1	0.09	20	0.67	1500	3	0.03	28	1100	86	0.08	2	2	15
CC64385		10	1	0.11	10	0.44	976	2	0.03	16	990	77	0.07	<2	3	15
CC64386		<10	1	0.11	10	3.71	1830	4	0.03	34	1030	609	0.10	5	1	28
CC64387		<10	<1	0.01	10	9.81	3110	1	0.03	9	770	93	0.05	2	1	59
CC64388		<10	1	0.11	20	2.32	6480	5	0.03	51	950	1340	0.07	13	3	29
CC64389		<10	1	0.09	10	2.29	928	2	0.03	16	1320	92	0.18	2	<1	27
CC64401		<10	<1	0.08	10	5.26	485	1	0.03	23	760	25	0.02	<2	2	33

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CERTIFICATE OF ANALYSIS VO09087192

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC64351		<20	0.02	<10	<10	29	<10	165
CC64352		<20	0.02	<10	<10	46	<10	162
CC64353		<20	0.03	<10	<10	29	<10	136
CC64354		<20	0.02	<10	<10	50	<10	149
CC64355		<20	0.02	<10	<10	64	<10	420
CC64356		<20	0.02	<10	<10	54	<10	260
CC64357		<20	0.02	<10	<10	54	<10	169
CC64358		<20	0.02	<10	<10	45	<10	227
CC64359		<20	0.03	<10	<10	62	<10	181
CC64360		<20	0.03	<10	<10	45	<10	206
CC64361		<20	0.01	<10	<10	24	<10	138
CC64362		<20	<0.01	<10	<10	4	<10	68
CC64363		<20	<0.01	<10	<10	6	<10	31
CC64364		<20	<0.01	<10	<10	6	<10	39
CC64365		<20	0.02	<10	<10	37	<10	109
CC64366		<20	0.02	<10	<10	27	<10	81
CC64367		<20	0.03	<10	<10	49	<10	91
CC64368		<20	0.02	<10	<10	22	<10	148
CC64369		<20	0.03	<10	<10	59	<10	103
CC64370		<20	0.03	<10	<10	62	<10	223
CC64371		<20	0.02	<10	<10	54	<10	297
CC64372		<20	0.03	<10	<10	64	<10	202
CC64373		<20	0.01	<10	<10	30	<10	152
CC64374		<20	0.01	<10	<10	39	<10	180
CC64375		<20	0.02	<10	<10	47	<10	206
CC64376		<20	0.01	<10	<10	25	<10	322
CC64377		<20	0.01	<10	<10	23	<10	467
CC64378		<20	0.02	<10	<10	60	<10	696
CC64379		<20	0.02	<10	<10	49	<10	472
CC64380		<20	0.02	<10	<10	38	<10	1025
CC64381		<20	0.02	<10	<10	48	<10	229
CC64382		<20	0.02	<10	<10	56	<10	457
CC64383		<20	0.02	<10	<10	57	<10	363
CC64384		<20	0.02	<10	<10	67	<10	418
CC64385		<20	0.02	<10	<10	56	<10	202
CC64386		<20	0.01	<10	<10	50	10	1560
CC64387		<20	<0.01	<10	<10	34	<10	721
CC64388		<20	0.01	<10	<10	28	30	3230
CC64389		<20	0.01	<10	<10	25	<10	484
CC64401		<20	0.02	<10	<10	33	<10	129

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CERTIFICATE OF ANALYSIS VO09087192

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC64402		0.18	0.002	<0.2	1.95	18	<10	260	0.7	3	1.02	1.0	10	29	16	2.93
CC64403		0.16	0.001	0.2	0.18	306	<10	230	<0.5	15	16.0	9.4	2	5	19	4.69
CC64404		0.25	<0.001	<0.2	0.17	7	<10	60	<0.5	<2	17.0	0.9	1	2	2	0.35
CC64405		0.17	0.001	0.2	0.29	3	<10	50	<0.5	<2	16.0	<0.5	1	3	3	0.42
CC64447		0.12	<0.001	0.3	3.88	5	<10	100	1.1	<2	4.18	<0.5	17	64	17	4.99
CC64448		0.16	<0.001	<0.2	4.32	9	<10	90	1.1	<2	8.53	<0.5	20	70	18	5.18
CC64449		0.13	<0.001	<0.2	5.15	4	<10	100	1.2	<2	3.70	<0.5	16	89	17	4.91
CC64450		0.16	<0.001	0.3	5.22	4	<10	120	1.3	<2	1.46	<0.5	20	94	16	5.67
CC64451		0.15	<0.001	0.5	3.06	7	<10	130	0.8	<2	1.04	<0.5	22	97	17	5.18
CC64452		0.13	<0.001	0.4	4.70	<2	<10	60	1.1	<2	1.60	<0.5	17	107	9	5.18
CC64453		0.14	<0.001	0.2	4.08	2	<10	40	1.0	<2	6.03	<0.5	22	88	10	5.45
CC64454		0.12	<0.001	<0.2	5.24	5	<10	70	1.2	<2	2.91	<0.5	25	102	16	5.83
CC64455		0.11	<0.001	0.4	4.39	8	<10	90	1.0	<2	2.06	<0.5	23	97	21	6.25
CC64456		0.14	<0.001	0.5	3.15	11	<10	110	0.9	<2	6.23	<0.5	16	67	19	4.65
CC64457		0.15	<0.001	<0.2	3.36	8	<10	80	0.9	<2	9.20	<0.5	15	70	15	4.59
CC64458		0.21	0.001	<0.2	2.87	8	<10	80	0.7	<2	17.7	<0.5	11	53	15	3.46
CC64459		0.15	0.001	0.3	3.47	18	<10	120	0.9	<2	1.60	<0.5	19	82	23	4.92
CC64460		0.14	0.001	0.3	3.19	19	<10	120	0.9	<2	1.61	<0.5	19	75	19	4.90
CC64461		0.15	<0.001	0.3	3.23	15	<10	90	0.9	<2	2.77	<0.5	16	72	21	4.33
CC64462		0.15	0.002	0.3	2.88	20	<10	80	0.8	2	3.77	<0.5	18	97	15	4.56
CC64463		0.15	0.001	0.6	1.32	42	<10	50	<0.5	<2	11.75	1.1	16	47	15	4.17
CC64464		0.17	0.001	0.4	1.75	21	<10	60	<0.5	<2	9.53	<0.5	24	52	17	5.23
CC64465		0.15	0.003	0.3	1.95	17	<10	240	0.6	3	1.99	0.7	15	49	19	3.65
CC64466		0.15	0.005	0.4	2.00	25	<10	330	0.6	<2	3.40	1.3	16	52	28	4.07
CC64467		0.09	0.001	0.6	1.73	16	<10	270	0.6	<2	1.68	0.6	14	43	21	3.47
CC64491		0.13	0.004	0.5	1.32	24	<10	170	0.6	2	1.43	1.0	7	21	14	2.49
CC64492		0.24	0.004	<0.2	1.32	22	<10	160	0.5	2	5.51	0.8	8	22	13	2.43
CC64493		0.24	0.002	0.3	0.27	24	<10	100	<0.5	<2	15.8	0.8	3	5	5	0.98
CC64494		0.23	0.004	0.4	0.24	9	<10	60	<0.5	<2	16.8	0.6	2	3	3	0.49
CC64495		0.17	0.007	0.4	1.71	40	<10	430	<0.5	<2	6.26	<0.5	11	182	71	7.99
CC64496		0.20	<0.001	0.4	0.11	5	<10	40	<0.5	<2	17.3	<0.5	1	2	2	0.21
CC64497		0.23	<0.001	0.5	0.11	4	<10	40	<0.5	<2	17.2	<0.5	2	2	1	0.24
CC64498		0.18	0.006	0.4	1.16	13	<10	170	<0.5	<2	7.19	0.5	8	22	14	1.97
CC64499		0.15	0.002	0.2	0.10	5	<10	40	<0.5	<2	16.2	0.5	1	1	1	0.22
CC64500		0.15	0.002	0.4	0.12	3	<10	90	<0.5	<2	13.25	0.5	1	2	2	0.27

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64402		<10	<1	0.12	10	0.73	1120	1	0.04	22	1470	33	0.07	<2	3	20
CC64403		<10	1	0.03	10	10.65	1750	2	0.03	29	730	617	0.02	13	1	29
CC64404		<10	<1	0.01	10	11.00	592	1	0.02	8	610	16	0.01	2	<1	35
CC64405		<10	<1	0.01	10	10.30	423	<1	0.02	7	770	11	<0.01	<2	<1	29
CC64447		10	1	0.12	10	2.23	782	1	0.06	48	1370	13	0.08	2	6	261
CC64448		10	<1	0.10	10	2.32	714	1	0.10	52	1150	7	0.05	<2	7	511
CC64449		10	<1	0.15	10	2.51	719	1	0.11	45	1080	6	0.09	<2	9	322
CC64450		10	1	0.08	10	2.50	780	1	0.08	49	810	8	0.06	2	9	177
CC64451		10	1	0.17	20	1.63	764	1	0.04	64	600	14	0.05	<2	6	53
CC64452		10	1	0.08	10	3.28	579	1	0.08	40	580	5	0.07	<2	8	174
CC64453		10	1	0.07	10	3.18	723	<1	0.06	50	1030	5	0.07	<2	8	368
CC64454		10	1	0.11	10	3.10	898	1	0.13	60	890	5	0.10	5	10	341
CC64455		10	1	0.16	10	2.68	655	<1	0.08	64	680	9	0.07	<2	9	200
CC64456		10	<1	0.13	10	2.11	722	1	0.07	49	1250	10	0.07	<2	6	328
CC64457		10	<1	0.10	10	2.10	665	1	0.07	49	870	8	0.05	3	6	502
CC64458		10	<1	0.17	10	1.99	500	1	0.06	40	940	7	<0.01	<2	6	751
CC64459		10	<1	0.12	10	1.92	708	1	0.07	58	850	21	0.08	2	6	155
CC64460		10	<1	0.16	10	1.75	612	<1	0.08	57	970	18	0.08	<2	6	148
CC64461		10	<1	0.10	10	1.70	609	<1	0.08	51	1090	13	0.11	<2	5	196
CC64462		10	<1	0.11	10	2.15	646	2	0.09	48	1180	28	0.09	<2	6	206
CC64463		<10	<1	0.10	10	1.34	455	2	0.05	58	1040	86	0.08	<2	3	465
CC64464		<10	<1	0.12	10	1.70	511	1	0.09	61	1200	12	0.10	<2	4	379
CC64465		10	<1	0.12	10	1.21	642	3	0.04	40	830	92	0.08	<2	4	71
CC64466		<10	<1	0.13	10	2.57	559	2	0.04	46	950	89	0.04	<2	5	57
CC64467		<10	<1	0.11	10	0.98	838	3	0.04	39	990	59	0.08	2	4	62
CC64491		<10	<1	0.06	10	0.54	821	3	0.02	14	1450	45	0.13	<2	2	16
CC64492		<10	<1	0.06	10	3.54	758	2	0.03	18	580	63	0.04	2	3	26
CC64493		<10	<1	0.02	<10	10.35	509	2	0.02	4	350	73	<0.01	2	1	35
CC64494		<10	<1	0.02	<10	11.00	499	2	0.03	<1	430	34	<0.01	<2	<1	38
CC64495		10	<1	0.34	10	3.76	357	2	0.03	70	2700	51	0.61	<2	9	42
CC64496		<10	1	0.01	<10	11.45	186	2	0.02	<1	190	20	<0.01	<2	<1	32
CC64497		<10	<1	0.01	<10	11.40	204	2	0.02	<1	200	23	<0.01	<2	<1	32
CC64498		<10	<1	0.05	10	4.77	461	2	0.02	20	650	28	0.05	<2	2	24
CC64499		<10	<1	0.01	<10	10.65	307	2	0.02	<1	320	25	<0.01	<2	<1	31
CC64500		<10	<1	0.01	<10	8.60	224	2	0.02	<1	280	16	0.04	<2	<1	29

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Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC64402		<20	0.03	<10	<10	58	<10	227
CC64403		<20	<0.01	<10	<10	96	10	1840
CC64404		<20	<0.01	<10	<10	9	<10	115
CC64405		<20	<0.01	<10	<10	9	<10	135
CC64447		<20	0.10	<10	<10	69	<10	87
CC64448		<20	0.11	<10	<10	77	<10	87
CC64449		<20	0.14	<10	<10	96	<10	103
CC64450		<20	0.14	<10	<10	107	<10	110
CC64451		<20	0.13	<10	<10	77	<10	109
CC64452		<20	0.13	<10	<10	101	<10	98
CC64453		<20	0.10	<10	<10	78	<10	76
CC64454		<20	0.14	<10	<10	102	<10	120
CC64455		<20	0.11	<10	<10	93	<10	121
CC64456		<20	0.10	<10	<10	65	<10	102
CC64457		<20	0.09	<10	<10	66	<10	92
CC64458		<20	0.08	<10	<10	54	<10	67
CC64459		<20	0.08	<10	<10	74	<10	166
CC64460		<20	0.07	<10	<10	68	<10	140
CC64461		<20	0.07	<10	<10	66	<10	126
CC64462		<20	0.06	<10	<10	67	<10	173
CC64463		<20	0.02	<10	<10	27	<10	627
CC64464		<20	0.03	<10	<10	33	<10	144
CC64465		<20	0.05	<10	<10	51	<10	248
CC64466		<20	0.07	<10	<10	58	<10	319
CC64467		<20	0.05	<10	<10	49	<10	233
CC64491		<20	0.02	<10	<10	44	<10	174
CC64492		<20	0.03	<10	<10	46	<10	189
CC64493		<20	0.01	<10	<10	19	<10	188
CC64494		<20	0.01	<10	<10	18	<10	134
CC64495		<20	0.07	<10	<10	118	<10	174
CC64496		<20	<0.01	<10	<10	8	<10	69
CC64497		<20	<0.01	<10	<10	7	<10	88
CC64498		<20	0.02	<10	<10	37	<10	216
CC64499		<20	<0.01	<10	<10	4	<10	91
CC64500		<20	<0.01	<10	<10	9	<10	77

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

Finalized Date: 12-SEP-2009
Account: RCM

CERTIFICATE VO09087191

Project: RAU

P.O. No.:

This report is for 115 Soil samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 12-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC64211		0.09	<0.001	0.6	1.20	18	<10	1320	<0.5	<2	3.25	1.2	10	26	26	3.24
CC64212		0.10	0.001	0.5	1.46	17	<10	2260	0.5	<2	2.08	3.7	10	31	11	3.63
CC64213		0.09	0.003	0.4	1.35	15	<10	360	0.7	<2	2.91	1.6	10	28	18	3.38
CC64214		0.12	0.002	<0.2	1.54	19	<10	230	0.7	<2	1.85	1.1	8	31	15	3.29
CC64215		0.12	<0.001	<0.2	1.92	16	<10	250	0.8	<2	0.79	0.7	10	34	12	3.52
CC64216		0.14	0.003	0.3	1.24	18	<10	180	0.5	<2	3.79	0.7	7	25	17	2.67
CC64217		0.13	0.001	<0.2	1.52	12	<10	240	0.7	<2	4.50	1.4	7	25	15	2.47
CC64218		0.17	0.002	0.2	1.22	17	<10	260	0.6	<2	6.21	1.5	6	22	15	2.44
CC64219		0.19	0.001	<0.2	0.57	5	<10	310	<0.5	<2	4.53	<0.5	64	22	99	8.11
CC64220		0.15	<0.001	<0.2	3.58	3	<10	260	<0.5	<2	1.91	<0.5	37	184	72	6.33
CC64221		0.11	0.015	<0.2	1.99	81	<10	130	0.5	5	1.20	1.0	17	70	36	4.04
CC64222		0.13	0.004	<0.2	1.55	44	<10	120	0.5	2	4.71	0.7	12	40	25	3.37
CC64223		0.17	0.002	0.3	1.41	23	<10	110	0.5	<2	8.72	0.6	10	37	20	2.84
CC64224		0.13	0.004	0.4	1.36	27	<10	130	0.5	<2	8.23	0.7	7	27	20	2.29
CC64225		0.22	0.003	0.2	0.78	22	<10	80	<0.5	<2	18.7	<0.5	5	14	10	1.57
CC64226		0.14	0.002	0.2	1.51	13	<10	90	0.5	<2	10.45	<0.5	7	23	8	3.33
CC64227		0.07	0.027	<0.2	2.31	38	<10	270	0.9	<2	1.15	0.6	12	34	49	4.36
CC64228		0.12	<0.001	<0.2	2.41	18	<10	150	0.7	4	1.39	0.7	17	79	29	4.32
CC64229		0.06	<0.001	<0.2	3.08	3	<10	350	0.5	<2	1.32	1.0	27	126	23	4.49
CC64230		0.06	<0.001	<0.2	3.00	8	<10	240	0.9	4	1.26	0.5	31	137	12	5.59
CC64231		0.08	0.001	<0.2	1.54	9	<10	170	0.5	<2	3.19	1.3	10	34	18	2.51
CC64232		0.07	<0.001	<0.2	2.14	10	<10	140	0.6	<2	3.32	0.8	11	50	17	2.77
CC64233		0.09	<0.001	<0.2	2.93	8	<10	90	0.8	<2	1.77	<0.5	14	66	14	3.67
CC64234		0.10	<0.001	<0.2	3.20	12	<10	100	0.9	<2	1.53	<0.5	19	81	17	4.35
CC64235		0.17	<0.001	0.2	3.59	9	<10	40	0.9	<2	15.4	<0.5	18	66	11	4.44
CC64236		0.10	0.003	0.2	0.48	<2	<10	70	<0.5	<2	1.95	0.6	4	9	9	1.55
CC64237		0.18	<0.001	0.3	0.37	9	<10	110	<0.5	<2	>25.0	<0.5	2	5	3	0.52
CC64238		0.18	<0.001	0.3	0.86	15	<10	60	<0.5	<2	21.3	<0.5	9	19	10	2.05
CC64239		0.16	<0.001	<0.2	0.39	9	<10	70	<0.5	<2	>25.0	<0.5	2	8	4	0.91
CC64240		0.09	0.002	<0.2	2.62	11	<10	160	0.6	<2	5.31	<0.5	20	89	28	4.90
CC64241		0.13	0.001	<0.2	1.81	20	<10	120	0.6	<2	4.79	<0.5	17	53	25	5.39
CC64242		0.18	0.001	<0.2	2.11	16	<10	110	0.6	<2	10.30	<0.5	13	53	19	3.50
CC64243		0.08	<0.001	0.2	2.26	11	<10	390	0.7	<2	3.20	<0.5	13	59	22	3.43
CC64244		0.09	0.001	0.2	3.40	14	<10	150	1.0	<2	3.93	<0.5	19	82	24	5.00
CC64245		0.14	<0.001	<0.2	3.24	8	<10	100	0.9	<2	6.50	<0.5	14	80	17	4.23
CC64246		0.10	0.023	<0.2	2.71	4	<10	70	0.7	<2	3.84	<0.5	12	51	16	3.35
CC64247		0.06	NSS	<0.2	1.14	4	<10	110	<0.5	<2	4.39	0.8	6	16	16	1.33
CC64248		0.05	0.013	0.3	1.68	12	<10	280	0.5	2	3.25	1.0	11	47	23	2.73
CC64249		0.13	0.002	0.2	2.26	21	<10	190	0.7	2	1.47	<0.5	17	63	22	4.02
CC64250		0.12	0.001	0.2	2.56	17	<10	170	0.8	2	2.27	0.6	16	66	28	4.04

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12-SEP-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64211		<10	<1	0.18	10	1.45	631	<1	0.02	34	1020	48	0.11	2	3	44
CC64212		<10	<1	0.11	10	0.95	1285	<1	0.02	24	630	75	0.09	2	3	33
CC64213		<10	<1	0.13	10	1.42	968	1	0.02	31	950	48	0.09	2	2	25
CC64214		<10	<1	0.13	20	1.16	655	1	0.02	27	540	51	0.05	<2	3	21
CC64215		10	<1	0.11	20	0.74	998	1	0.02	26	370	43	0.05	2	4	14
CC64216		<10	<1	0.11	10	2.37	745	<1	0.02	23	860	39	0.07	<2	2	31
CC64217		<10	<1	0.08	20	2.68	1155	3	0.02	27	930	26	0.11	<2	2	25
CC64218		<10	<1	0.10	10	4.16	998	1	0.02	21	860	57	0.09	<2	2	30
CC64219		<10	<1	0.30	<10	1.69	617	<1	0.01	211	750	7	1.26	<2	3	76
CC64220		10	<1	0.23	10	4.33	510	1	0.02	183	710	9	0.14	<2	10	28
CC64221		10	<1	0.11	10	1.24	684	1	0.03	59	560	50	0.08	<2	4	18
CC64222		<10	<1	0.15	10	1.36	613	1	0.03	37	1140	26	0.07	<2	3	40
CC64223		<10	<1	0.11	10	1.65	603	1	0.03	34	690	19	0.06	<2	2	66
CC64224		<10	<1	0.10	10	1.29	503	1	0.03	24	730	15	0.07	<2	2	49
CC64225		<10	<1	0.07	10	1.67	291	1	0.02	15	360	9	<0.01	<2	2	110
CC64226		<10	<1	0.10	20	0.61	560	1	0.03	16	700	10	0.08	<2	3	98
CC64227		10	<1	0.09	30	0.44	1700	1	<0.01	29	990	15	0.03	<2	5	19
CC64228		10	<1	0.14	10	1.40	886	1	0.04	68	750	22	0.07	<2	5	26
CC64229		10	<1	0.13	10	2.28	1925	1	0.06	87	1090	7	0.06	<2	7	40
CC64230		10	<1	0.18	10	2.06	1430	1	0.08	93	1330	7	0.05	<2	9	49
CC64231		<10	1	0.10	10	0.95	702	<1	0.02	26	1050	11	0.16	<2	2	84
CC64232		10	1	0.10	10	1.33	579	<1	0.03	29	880	9	0.14	<2	3	122
CC64233		10	<1	0.08	10	1.80	564	<1	0.03	34	950	9	0.13	<2	5	90
CC64234		10	1	0.11	10	1.96	736	<1	0.03	41	880	10	0.08	<2	5	80
CC64235		10	1	0.16	<10	2.22	576	<1	0.11	41	920	7	0.02	4	8	777
CC64236		<10	<1	0.04	10	0.15	628	<1	0.01	6	1080	3	0.12	<2	1	35
CC64237		<10	1	0.02	<10	0.16	1045	<1	<0.01	3	1110	5	<0.01	2	1	147
CC64238		<10	1	0.08	10	1.09	1340	<1	0.02	19	640	7	<0.01	<2	2	309
CC64239		<10	<1	0.02	<10	0.19	1105	<1	0.01	6	640	6	<0.01	<2	1	144
CC64240		10	1	0.22	10	1.01	599	<1	0.10	69	1310	6	0.09	<2	5	80
CC64241		10	<1	0.18	20	1.16	810	<1	0.03	52	1300	10	0.07	3	3	89
CC64242		<10	1	0.13	10	1.74	607	<1	0.04	39	830	11	0.03	<2	5	252
CC64243		10	<1	0.12	10	1.31	613	<1	0.06	40	880	18	0.15	2	4	180
CC64244		10	<1	0.19	10	2.29	731	<1	0.09	57	1260	24	0.09	<2	7	277
CC64245		10	<1	0.17	10	2.04	668	<1	0.10	42	1370	11	0.09	<2	6	410
CC64246		10	1	0.10	<10	1.28	553	<1	0.10	32	860	6	0.18	<2	4	271
CC64247		<10	<1	0.04	<10	0.30	869	<1	0.04	14	1370	3	0.23	<2	1	213
CC64248		<10	<1	0.09	10	0.94	552	<1	0.05	34	930	42	0.17	<2	3	101
CC64249		10	<1	0.11	10	1.42	810	1	0.06	51	1200	29	0.05	<2	5	87
CC64250		10	<1	0.11	10	1.61	755	<1	0.07	49	1270	24	0.11	<2	4	137

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Project: RAU

Finalized Date: 12-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC64211		<20	0.02	<10	<10	31	<10	305
CC64212		<20	0.02	<10	<10	51	<10	668
CC64213		<20	0.02	<10	<10	38	<10	243
CC64214		<20	0.03	<10	<10	47	<10	250
CC64215		<20	0.03	<10	<10	59	<10	216
CC64216		<20	0.02	<10	<10	37	<10	178
CC64217		<20	0.02	<10	<10	88	<10	346
CC64218		<20	0.02	<10	<10	37	<10	393
CC64219		<20	0.01	<10	<10	16	<10	93
CC64220		<20	0.07	<10	<10	96	<10	102
CC64221		<20	0.08	<10	<10	55	<10	600
CC64222		<20	0.04	<10	<10	36	<10	253
CC64223		<20	0.05	<10	<10	37	10	135
CC64224		<20	0.04	<10	<10	36	<10	162
CC64225		<20	0.02	<10	<10	20	<10	60
CC64226		<20	0.02	<10	<10	34	<10	63
CC64227		<20	0.02	<10	<10	57	10	96
CC64228		<20	0.09	<10	<10	59	<10	98
CC64229		<20	0.21	<10	<10	82	<10	113
CC64230		<20	0.21	<10	<10	105	50	114
CC64231		<20	0.04	<10	<10	36	<10	105
CC64232		<20	0.06	<10	<10	48	<10	82
CC64233		<20	0.07	<10	<10	64	<10	89
CC64234		<20	0.09	<10	<10	73	<10	103
CC64235		<20	0.10	<10	<10	64	<10	58
CC64236		<20	0.01	<10	<10	10	<10	15
CC64237		<20	0.01	<10	10	8	<10	29
CC64238		<20	0.03	<10	<10	18	<10	50
CC64239		<20	0.01	<10	10	9	<10	33
CC64240		<20	0.11	<10	<10	55	<10	55
CC64241		<20	0.06	<10	<10	40	<10	95
CC64242		<20	0.07	<10	<10	48	<10	84
CC64243		<20	0.06	<10	<10	53	<10	126
CC64244		<20	0.10	<10	<10	76	<10	197
CC64245		<20	0.09	<10	<10	70	<10	91
CC64246		<20	0.07	<10	<10	58	<10	65
CC64247		<20	0.02	<10	<10	21	<10	28
CC64248		<20	0.05	<10	<10	43	<10	157
CC64249		<20	0.09	<10	<10	59	<10	173
CC64250		<20	0.07	<10	<10	60	<10	165

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CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC64251		0.12	0.005	1.1	0.52	39	<10	580	<0.5	<2	5.98	7.9	6	10	14	2.15
CC64252		0.19	0.002	0.2	0.33	12	<10	3200	<0.5	<2	10.30	2.4	3	6	9	1.34
CC64253		0.19	<0.001	0.3	0.18	4	<10	80	<0.5	<2	17.3	1.4	2	2	3	0.47
CC64254		0.23	0.002	0.2	0.31	15	<10	3030	<0.5	<2	9.41	2.8	3	5	8	1.09
CC64255		0.24	0.004	0.5	0.14	22	<10	160	<0.5	7	11.50	0.5	2	3	5	0.80
CC64256		0.17	0.002	<0.2	0.12	7	<10	140	<0.5	<2	14.4	<0.5	1	2	5	0.43
CC64257		0.14	0.004	0.3	1.59	14	<10	270	0.6	<2	2.64	0.9	9	24	16	2.52
CC64258		0.16	0.041	0.4	1.64	18	<10	180	0.7	3	2.44	1.7	9	26	18	2.72
CC64259		0.14	0.003	0.6	1.45	57	<10	220	0.6	5	4.06	1.4	8	21	16	2.70
CC64260		0.16	0.001	0.3	0.61	8	<10	90	<0.5	<2	11.95	1.0	3	7	9	0.95
CC64261		0.15	0.001	0.2	0.81	10	<10	370	<0.5	<2	10.25	3.6	4	11	12	1.23
CC64262		0.17	0.001	<0.2	1.14	13	<10	130	0.5	<2	7.00	0.5	5	16	12	1.89
CC64263		0.13	0.004	0.2	1.55	12	<10	240	0.6	<2	2.84	0.9	8	23	14	2.41
CC64264		0.13	0.001	<0.2	1.41	9	<10	160	0.6	<2	1.43	0.6	8	21	12	2.30
CC64265		0.16	0.002	<0.2	1.32	12	<10	220	0.5	<2	0.79	0.8	9	22	14	2.46
CC64266		0.15	0.003	0.2	2.31	20	<10	720	0.8	<2	0.60	0.7	8	34	15	3.41
CC64267		0.13	0.001	<0.2	1.89	11	<10	290	0.6	<2	0.80	2.1	9	27	12	2.69
CC64268		0.18	0.001	<0.2	0.32	5	<10	90	<0.5	<2	14.9	0.8	2	6	5	0.53
CC64269		0.17	0.003	0.2	1.53	21	<10	170	0.6	3	4.76	1.5	6	20	11	2.14
CC64270		0.19	0.001	<0.2	0.64	12	<10	140	<0.5	<2	11.50	5.0	3	9	7	1.03
CC64271		0.14	0.004	0.3	1.44	17	<10	260	0.6	2	4.71	2.0	7	20	14	2.09
CC64272		0.12	0.001	0.2	2.23	26	<10	250	0.6	<2	0.83	1.5	11	28	13	3.46
CC64273		0.15	0.002	0.2	2.13	20	<10	190	0.7	<2	0.91	0.5	7	27	10	3.27
CC64274		0.10	0.002	<0.2	2.34	17	<10	390	1.0	<2	1.43	3.3	10	28	10	3.51
CC64275		0.13	0.003	0.6	2.03	28	<10	380	1.0	<2	0.62	1.4	10	28	10	3.44
CC64276		0.13	0.002	0.2	2.32	19	<10	390	0.9	<2	1.72	2.5	9	28	9	3.38
CC64277		0.14	0.003	0.2	2.56	49	<10	930	0.9	4	0.57	1.7	9	35	9	4.12
CC64278		0.13	0.004	0.2	1.86	19	<10	280	0.6	<2	3.33	0.7	8	26	12	2.77
CC64279		0.13	0.001	0.2	1.72	19	<10	200	0.6	<2	4.56	2.1	8	22	12	2.83
CC64280		0.13	0.002	<0.2	0.93	15	<10	140	<0.5	4	8.47	0.9	4	13	9	1.68
CC64281		0.12	0.001	<0.2	1.80	10	<10	220	0.6	<2	3.97	1.8	9	32	11	2.82
CC64282		0.16	0.010	0.4	2.29	27	<10	380	0.9	<2	0.68	1.0	10	35	14	3.79
CC64283		0.13	0.005	0.4	1.96	21	<10	570	0.7	<2	1.55	0.9	12	29	14	3.25
CC64284		0.12	0.003	0.7	1.89	24	<10	390	0.6	<2	1.04	3.9	11	29	15	3.39
CC64285		0.17	0.004	0.7	1.76	27	<10	830	0.7	2	1.54	1.3	11	27	14	3.28
CC64286		0.13	0.003	0.2	0.71	42	<10	270	<0.5	<2	9.87	2.1	4	8	7	1.67
CC64287		0.14	0.006	0.5	0.64	34	<10	1340	<0.5	2	11.05	2.5	4	10	8	1.61
CC64288		0.21	0.003	<0.2	0.31	23	<10	140	<0.5	2	15.5	0.6	2	8	12	1.09
CC64289		0.18	0.002	0.2	0.57	14	<10	200	<0.5	<2	1.77	0.8	6	7	13	2.61
CC64290		0.19	0.010	0.2	1.58	31	<10	420	0.6	<2	0.30	0.7	8	23	13	2.98

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 12-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64251		<10	<1	0.07	10	3.56	1645	1	0.02	16	1260	1190	0.07	7	1	34
CC64252		<10	<1	0.06	10	6.69	834	1	0.04	11	730	187	0.12	<2	1	65
CC64253		<10	<1	0.02	10	10.70	710	1	0.02	3	510	76	<0.01	<2	<1	53
CC64254		<10	<1	0.05	<10	6.08	471	1	0.03	8	600	197	0.13	<2	1	96
CC64255		<10	<1	0.03	<10	7.70	392	1	0.02	5	310	98	0.03	<2	1	51
CC64256		<10	<1	0.02	<10	9.34	383	<1	0.03	3	620	19	0.04	<2	<1	56
CC64257		<10	<1	0.08	10	1.83	658	1	0.02	20	730	34	0.06	2	2	17
CC64258		<10	<1	0.06	10	1.60	797	1	0.03	24	1040	62	0.07	2	2	19
CC64259		<10	<1	0.06	10	2.56	923	1	0.03	18	930	133	0.08	<2	1	21
CC64260		<10	<1	0.03	<10	8.17	706	<1	0.03	7	880	35	0.07	<2	<1	36
CC64261		<10	<1	0.04	10	6.92	891	<1	0.03	11	1030	141	0.07	<2	1	29
CC64262		<10	<1	0.06	10	4.79	561	2	0.02	17	620	26	0.05	<2	1	22
CC64263		<10	<1	0.07	10	1.91	581	1	0.02	18	840	21	0.06	2	2	15
CC64264		<10	<1	0.07	10	0.77	942	1	0.02	15	950	16	0.09	<2	1	11
CC64265		<10	<1	0.06	10	0.49	715	1	0.03	19	720	36	0.07	2	2	14
CC64266		10	<1	0.08	10	0.71	682	1	0.02	25	410	68	0.03	2	4	13
CC64267		10	<1	0.06	10	0.61	961	1	0.02	19	790	19	0.07	2	2	12
CC64268		<10	<1	0.03	<10	9.88	358	<1	0.03	5	700	15	0.04	<2	<1	35
CC64269		<10	<1	0.07	10	3.12	633	1	0.02	15	1150	21	0.06	<2	2	18
CC64270		<10	<1	0.04	<10	7.89	494	<1	0.02	8	780	24	0.04	<2	1	37
CC64271		<10	<1	0.07	10	3.09	991	<1	0.02	18	1270	35	0.08	2	2	18
CC64272		10	<1	0.09	10	0.57	1380	1	<0.01	18	1030	31	0.07	2	3	12
CC64273		10	<1	0.07	10	0.57	632	1	<0.01	16	1390	25	0.08	2	2	12
CC64274		10	<1	0.08	10	0.82	1625	1	<0.01	17	1380	38	0.10	<2	2	13
CC64275		<10	1	0.06	20	0.58	988	1	<0.01	23	860	86	0.05	2	3	12
CC64276		10	<1	0.08	10	1.14	1355	1	<0.01	17	970	84	0.08	<2	3	12
CC64277		10	<1	0.08	10	0.67	1165	1	<0.01	23	770	110	0.06	2	3	13
CC64278		10	<1	0.07	10	2.21	681	1	<0.01	18	650	30	0.04	<2	3	19
CC64279		<10	<1	0.07	10	2.69	1450	1	<0.01	15	1350	36	0.10	<2	2	18
CC64280		<10	<1	0.05	10	5.45	628	1	<0.01	10	1030	39	0.06	2	1	28
CC64281		10	<1	0.06	10	2.43	1030	1	<0.01	20	1080	34	0.08	<2	1	18
CC64282		<10	<1	0.07	20	0.62	1065	1	<0.01	25	1020	111	0.07	<2	3	15
CC64283		10	<1	0.08	10	1.10	986	1	<0.01	23	820	62	0.05	<2	3	19
CC64284		<10	<1	0.08	10	0.66	1220	1	0.01	23	930	92	0.09	<2	2	16
CC64285		10	<1	0.07	10	1.08	1255	1	<0.01	23	770	136	0.06	<2	3	17
CC64286		<10	<1	0.05	10	6.36	1265	1	<0.01	7	1060	80	0.08	<2	1	29
CC64287		<10	<1	0.05	10	7.47	1165	1	0.01	10	570	77	0.06	2	1	47
CC64288		<10	<1	0.03	10	9.93	702	1	0.01	6	1250	40	0.07	3	1	59
CC64289		<10	<1	0.20	30	0.93	314	1	<0.01	13	610	80	0.05	<2	2	15
CC64290		<10	<1	0.08	10	0.43	684	1	<0.01	20	750	91	0.03	<2	2	12

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Project: RAU

Finalized Date: 12-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC64251		<20	0.01	<10	<10	26	<10	2090
CC64252		<20	0.01	<10	<10	15	<10	654
CC64253		<20	<0.01	<10	<10	5	<10	244
CC64254		<20	0.01	<10	<10	12	<10	831
CC64255		<20	<0.01	<10	<10	7	<10	180
CC64256		<20	<0.01	<10	<10	6	<10	79
CC64257		<20	0.02	<10	<10	51	<10	163
CC64258		<20	0.02	<10	<10	55	<10	414
CC64259		<20	0.02	<10	<10	54	<10	433
CC64260		<20	0.01	<10	<10	18	<10	235
CC64261		<20	0.01	<10	<10	31	<10	385
CC64262		<20	0.02	<10	<10	38	<10	182
CC64263		<20	0.02	<10	<10	49	<10	200
CC64264		<20	0.02	<10	<10	46	<10	210
CC64265		<20	0.02	<10	<10	51	<10	181
CC64266		<20	0.04	<10	<10	76	<10	345
CC64267		<20	0.03	<10	<10	55	<10	214
CC64268		<20	0.01	<10	<10	14	<10	139
CC64269		<20	0.02	<10	<10	44	<10	236
CC64270		<20	0.01	<10	<10	21	<10	419
CC64271		<20	0.02	<10	<10	54	<10	399
CC64272		<20	0.03	<10	<10	66	<10	410
CC64273		<20	0.03	<10	<10	61	<10	220
CC64274		<20	0.03	<10	<10	57	<10	613
CC64275		<20	0.03	<10	<10	63	<10	663
CC64276		<20	0.03	<10	<10	63	<10	792
CC64277		<20	0.03	<10	<10	81	<10	1150
CC64278		<20	0.03	<10	<10	53	<10	141
CC64279		<20	0.02	<10	<10	50	<10	503
CC64280		<20	0.01	<10	<10	29	<10	230
CC64281		<20	0.03	<10	<10	51	<10	313
CC64282		<20	0.03	<10	<10	70	<10	387
CC64283		<20	0.03	<10	<10	62	<10	264
CC64284		<20	0.03	<10	<10	61	<10	759
CC64285		<20	0.03	<10	<10	57	<10	439
CC64286		<20	0.01	<10	<10	26	<10	561
CC64287		<20	0.01	<10	<10	26	<10	669
CC64288		<20	0.01	<10	<10	14	<10	205
CC64289		<20	0.01	<10	<10	13	<10	314
CC64290		<20	0.02	<10	<10	46	<10	485

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Project: RAU

Finalized Date: 12-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC64291		0.15	0.046	1.2	0.66	35	<10	890	<0.5	4	1.26	11.4	7	11	15	2.35
CC64292		0.14	0.016	0.4	0.43	27	<10	160	<0.5	<2	13.10	1.7	5	8	44	1.83
CC64293		0.13	0.004	0.3	1.77	28	<10	300	0.8	<2	0.65	0.6	11	31	18	3.65
CC64294		0.23	0.011	0.5	0.70	41	<10	140	<0.5	4	10.10	0.9	6	13	13	2.35
CC64295		0.14	0.008	0.5	0.90	21	<10	260	<0.5	<2	8.33	2.4	8	15	15	2.22
CC64296		0.16	0.005	0.6	0.88	92	<10	360	0.9	<2	4.59	0.8	19	15	24	8.03
CC64297		0.16	0.006	0.4	0.78	25	<10	190	<0.5	<2	7.13	1.9	6	15	14	2.41
CC64298		0.15	0.015	1.2	1.56	110	<10	410	0.8	11	1.07	4.7	10	28	15	4.80
CC64299		0.11	0.012	0.2	1.05	14	<10	270	<0.5	2	7.89	2.6	7	18	14	2.19
CC64300		0.12	0.006	0.4	1.08	23	<10	610	0.6	<2	4.50	2.2	10	18	22	2.92
CC64301		0.13	0.001	<0.2	0.50	68	<10	690	0.6	<2	5.64	1.2	11	10	18	5.68
CC64302		0.19	0.003	<0.2	0.77	11	<10	130	<0.5	<2	11.30	0.8	3	12	11	1.44
CC64303		0.21	0.003	<0.2	0.20	13	<10	670	<0.5	<2	11.50	2.9	6	8	10	1.80
CC64304		0.14	0.006	<0.2	0.73	18	<10	200	<0.5	3	11.95	2.4	4	12	12	1.63
CC64305		0.18	0.017	<0.2	1.00	29	<10	150	0.5	6	7.04	1.1	7	19	17	2.40
CC64306		0.13	0.004	0.4	1.51	42	<10	500	0.8	4	3.86	4.2	12	26	26	4.03
CC64307		0.14	0.006	0.6	1.59	24	<10	750	0.7	<2	1.14	5.0	13	26	19	4.58
CC64308		0.16	0.009	0.2	1.56	25	<10	220	0.7	3	3.69	2.0	12	26	23	3.67
CC64309		0.16	0.007	0.2	1.69	26	<10	200	0.8	5	3.15	3.9	16	26	28	4.64
CC64310		0.22	0.001	<0.2	0.10	6	<10	100	<0.5	<2	18.0	1.9	1	2	2	0.41
CC64311		0.08	NSS	<0.2	0.40	3	<10	190	<0.5	<2	5.87	0.6	3	6	9	0.73
CC64312		0.07	0.002	<0.2	0.33	2	<10	120	<0.5	<2	4.43	0.8	2	5	7	0.91
CC64313		0.22	0.001	<0.2	0.24	<2	<10	90	<0.5	<2	12.35	0.5	<1	3	1	0.45
CC64314		0.08	<0.001	<0.2	1.00	8	<10	350	<0.5	<2	2.61	3.9	6	13	15	1.82
CC64315		0.12	0.006	<0.2	0.78	10	<10	140	<0.5	2	7.87	0.9	5	14	10	1.54
CC64316		0.10	0.051	<0.2	1.64	8	<10	240	0.6	<2	4.69	2.1	8	21	22	2.47
CC64317		0.10	0.004	<0.2	0.36	5	<10	70	<0.5	<2	8.20	0.7	2	5	7	0.65
CC64318		0.22	0.001	<0.2	0.24	<2	<10	50	<0.5	<2	15.7	<0.5	1	3	2	0.33
CC64319		0.22	0.004	<0.2	0.50	7	<10	130	<0.5	<2	12.40	0.7	3	8	6	0.89
CC64320		0.22	<0.001	<0.2	0.15	3	<10	40	<0.5	<2	16.5	<0.5	1	2	<1	0.22
CC64321		0.28	0.004	<0.2	0.88	7	<10	200	<0.5	<2	8.43	0.9	5	13	10	1.49
CC64322		0.18	0.004	0.2	0.31	34	<10	210	<0.5	7	14.45	2.9	2	5	6	1.07
CC64323		0.30	0.004	<0.2	0.11	5	<10	80	<0.5	<2	16.8	0.8	1	3	1	0.31
CC64324		0.26	0.001	<0.2	0.16	4	<10	80	<0.5	<2	17.5	<0.5	1	2	1	0.28
CC64325		0.23	0.005	<0.2	0.46	7	<10	90	<0.5	<2	12.30	1.0	3	6	5	0.79

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: RAU

Finalized Date: 12-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64291		<10	<1	0.08	10	0.55	2100	1	<0.01	17	950	636	0.06	3	1	12
CC64292		<10	<1	0.11	10	8.73	880	<1	<0.01	11	430	337	0.04	2	1	49
CC64293		<10	<1	0.11	20	0.52	1080	3	<0.01	28	1220	74	0.06	<2	2	15
CC64294		<10	<1	0.05	10	6.64	984	6	<0.01	19	1040	54	0.05	2	1	54
CC64295		<10	<1	0.07	10	5.35	1470	3	0.01	22	1190	90	0.06	<2	2	53
CC64296		<10	<1	0.18	20	2.69	1480	14	<0.01	34	3970	70	0.10	4	3	39
CC64297		<10	<1	0.09	10	4.53	1330	5	<0.01	25	780	70	0.06	2	2	40
CC64298		<10	<1	0.07	20	0.71	1960	8	<0.01	35	680	176	0.06	2	3	14
CC64299		<10	1	0.07	10	4.94	1965	4	0.02	22	720	67	0.05	<2	2	37
CC64300		<10	<1	0.11	20	2.69	1635	4	0.02	25	1210	154	0.06	<2	2	24
CC64301		<10	<1	0.13	20	2.95	1025	11	0.01	25	2570	54	0.27	<2	2	37
CC64302		<10	<1	0.05	10	7.27	1050	4	0.02	12	510	28	0.04	<2	1	47
CC64303		<10	1	0.08	10	7.40	1475	7	0.02	14	360	74	0.08	<2	1	70
CC64304		<10	<1	0.05	10	7.47	1415	5	0.02	19	1080	53	0.06	<2	1	52
CC64305		<10	<1	0.09	20	4.47	789	2	0.02	23	700	56	0.04	<2	2	36
CC64306		<10	<1	0.10	20	2.08	2260	2	0.02	33	1620	187	0.11	<2	2	26
CC64307		<10	<1	0.10	20	0.70	3420	2	0.01	44	1320	180	0.08	<2	3	21
CC64308		<10	<1	0.10	20	2.35	1590	5	0.01	45	1390	40	0.08	<2	2	24
CC64309		<10	1	0.11	20	1.88	2470	2	0.01	50	1920	59	0.09	4	4	21
CC64310		<10	1	0.01	10	11.55	568	<1	0.01	7	240	106	<0.01	<2	<1	35
CC64311		<10	1	0.04	10	2.13	619	<1	0.02	5	1470	16	0.27	<2	<1	23
CC64312		<10	<1	0.03	10	1.68	619	<1	0.02	3	1000	10	0.23	<2	<1	14
CC64313		<10	<1	0.02	10	8.41	482	<1	0.01	5	620	19	0.06	<2	<1	23
CC64314		<10	1	0.06	10	0.61	1560	<1	0.03	11	1870	75	0.26	<2	1	14
CC64315		<10	1	0.07	10	5.18	520	<1	0.03	15	670	51	0.07	<2	1	27
CC64316		<10	1	0.08	10	2.06	2080	<1	0.06	18	2010	71	0.31	<2	1	24
CC64317		<10	1	0.03	10	4.83	442	<1	0.02	7	980	11	0.17	<2	<1	19
CC64318		<10	1	0.01	10	9.93	356	<1	0.01	4	740	10	0.06	<2	<1	28
CC64319		<10	<1	0.03	10	8.67	353	<1	0.01	11	490	22	0.04	<2	1	31
CC64320		<10	1	0.01	10	10.45	208	<1	0.01	5	390	8	0.05	<2	<1	33
CC64321		<10	1	0.05	10	5.34	855	<1	0.02	15	670	26	0.06	<2	1	24
CC64322		<10	1	0.02	10	9.97	1365	<1	0.02	11	460	381	0.05	<2	1	41
CC64323		<10	1	0.01	10	10.75	303	<1	0.01	7	340	110	<0.01	<2	<1	35
CC64324		<10	1	0.01	10	11.30	279	<1	0.01	6	330	28	<0.01	<2	<1	33
CC64325		<10	1	0.03	10	8.55	945	<1	0.01	10	820	41	0.07	<2	1	25

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 12-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087191

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC64291		<20	0.01	<10	<10	25	<10	2150
CC64292		<20	<0.01	<10	<10	19	<10	1070
CC64293		<20	0.02	<10	<10	68	<10	330
CC64294		<20	0.02	<10	<10	49	10	255
CC64295		<20	0.02	<10	<10	40	<10	654
CC64296		<20	0.02	<10	<10	33	<10	634
CC64297		<20	0.02	<10	<10	31	<10	578
CC64298		<20	0.02	<10	<10	61	<10	1340
CC64299		<20	0.02	<10	<10	41	<10	736
CC64300		<20	0.02	<10	<10	48	<10	762
CC64301		<20	0.01	<10	<10	20	<10	266
CC64302		<20	0.01	<10	<10	26	<10	193
CC64303		<20	<0.01	<10	<10	9	<10	666
CC64304		<20	0.01	<10	<10	46	<10	399
CC64305		<20	0.03	<10	<10	46	<10	225
CC64306		<20	0.02	<10	<10	50	10	859
CC64307		<20	0.02	<10	<10	55	<10	1620
CC64308		<20	0.02	<10	<10	69	<10	617
CC64309		<20	0.02	<10	<10	53	<10	1120
CC64310		<20	<0.01	<10	<10	18	<10	219
CC64311		<20	0.01	<10	<10	9	<10	150
CC64312		<20	0.01	<10	<10	8	<10	125
CC64313		<20	0.01	<10	<10	8	<10	114
CC64314		<20	0.02	<10	<10	33	<10	258
CC64315		<20	0.02	<10	<10	29	<10	177
CC64316		<20	0.02	<10	<10	46	<10	518
CC64317		<20	0.01	<10	<10	11	<10	121
CC64318		<20	<0.01	<10	<10	8	<10	76
CC64319		<20	0.01	<10	<10	21	<10	106
CC64320		<20	<0.01	<10	<10	6	<10	55
CC64321		<20	0.02	<10	<10	29	<10	255
CC64322		<20	0.01	<10	<10	29	<10	640
CC64323		<20	0.01	<10	<10	25	<10	303
CC64324		<20	<0.01	<10	<10	11	<10	111
CC64325		<20	0.01	<10	<10	17	<10	323

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 12-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087191

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE VO09087190

Project: RAU

P.O. No.:

This report is for 115 Soil samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 14-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC64089		0.13	0.001	<0.2	1.87	17	<10	200	0.9	<2	2.28	<0.5	17	58	31	4.01
CC64090		0.15	NSS	<0.2	1.97	14	<10	180	0.9	<2	1.73	<0.5	19	43	33	4.51
CC64091		0.17	0.007	0.2	1.28	23	<10	110	0.5	<2	7.90	0.5	9	33	18	3.68
CC64092		0.18	0.002	<0.2	0.86	17	<10	70	<0.5	<2	10.35	<0.5	8	15	19	3.34
CC64093		0.18	0.001	<0.2	1.63	26	<10	120	0.6	<2	10.25	<0.5	13	73	12	6.07
CC64094		0.13	0.002	<0.2	4.06	2	<10	140	0.8	<2	0.75	0.6	65	241	36	6.82
CC64095		0.12	<0.001	<0.2	2.73	5	<10	240	0.9	<2	0.89	<0.5	21	88	26	5.69
CC64096		0.17	<0.001	<0.2	1.61	3	<10	170	0.8	<2	0.53	<0.5	16	30	11	4.48
CC64097		0.09	<0.001	<0.2	2.63	4	<10	210	1.6	<2	1.92	1.5	14	111	19	4.50
CC64098		0.14	0.001	<0.2	1.97	8	<10	200	0.6	<2	0.88	<0.5	18	74	21	3.97
CC64099		0.13	0.001	0.2	2.02	10	<10	180	0.6	<2	1.17	<0.5	19	72	18	3.92
CC64100		0.16	0.001	<0.2	2.41	13	<10	200	0.7	<2	1.04	<0.5	18	78	17	3.80
CC64101		0.12	0.007	0.5	1.60	35	<10	240	0.7	<2	0.82	1.1	10	28	22	3.17
CC64102		0.12	0.008	0.3	1.12	24	<10	210	0.5	<2	3.04	0.8	9	22	17	2.95
CC64110		0.12	0.028	<0.2	0.80	27	<10	120	<0.5	<2	6.30	0.8	6	16	15	2.24
CC64111		0.11	0.009	0.5	1.18	30	<10	240	0.6	<2	1.13	1.1	9	24	21	2.83
CC64112		0.14	0.003	0.4	1.20	32	<10	270	0.6	2	1.47	1.1	9	25	22	2.95
CC64113		0.34	0.004	<0.2	0.19	26	<10	120	<0.5	<2	12.10	0.6	2	4	7	0.88
CC64114		0.15	<0.001	0.5	1.11	17	<10	190	0.5	<2	3.35	1.0	8	23	20	2.82
CC64115		0.10	0.005	0.4	0.53	22	<10	290	<0.5	<2	8.83	1.9	11	13	24	2.66
CC64116		0.14	0.006	0.2	0.58	29	<10	150	<0.5	<2	11.35	1.2	13	12	19	2.22
CC64117		0.11	0.003	0.4	0.55	24	<10	270	<0.5	<2	8.86	1.6	14	16	27	3.66
CC64118		0.15	0.007	1.2	0.45	35	<10	1780	<0.5	2	6.40	7.1	19	14	45	5.39
CC64119		0.07	0.009	1.4	0.62	48	<10	1180	<0.5	3	4.31	10.1	13	18	33	4.31
CC64120		0.11	0.005	0.7	0.73	20	<10	400	<0.5	<2	9.40	3.3	14	29	36	3.67
CC64121		0.02	<0.001	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64122		0.14	0.004	1.1	0.63	20	<10	1080	<0.5	<2	9.06	5.7	10	16	19	3.83
CC64123		0.05	<0.001	0.4	0.44	12	<10	310	<0.5	<2	4.31	2.3	5	8	14	1.71
CC64124		0.10	0.005	0.6	0.98	20	<10	200	0.5	<2	6.01	1.6	10	28	19	2.79
CC64125		0.06	<0.001	0.4	2.06	8	<10	320	<0.5	<2	1.50	0.9	23	112	37	4.46
CC64126		0.16	<0.001	0.4	2.30	15	<10	190	<0.5	<2	4.03	0.8	24	115	42	4.73
CC64127		0.15	<0.001	<0.2	0.20	10	<10	40	<0.5	<2	16.5	<0.5	4	6	7	1.34
CC64128		0.10	0.001	<0.2	1.61	9	<10	90	<0.5	<2	3.65	<0.5	18	63	37	3.53
CC64129		0.14	0.003	<0.2	1.64	14	<10	70	<0.5	<2	7.10	<0.5	15	68	30	3.18
CC64130		0.16	<0.001	0.2	0.77	9	<10	30	<0.5	<2	17.8	<0.5	9	29	17	1.97
CC64131		0.10	0.001	0.7	1.30	25	<10	280	0.6	<2	3.08	1.6	10	22	23	3.04
CC64132		0.10	0.001	0.4	1.04	19	<10	170	0.5	<2	2.33	1.1	8	21	20	2.57
CC64133		0.12	0.002	0.2	1.44	28	<10	330	0.5	<2	0.83	1.0	9	27	16	2.79
CC64134		0.07	0.009	0.5	1.33	49	<10	240	0.6	2	2.16	1.5	9	25	30	2.93
CC64135		0.07	0.004	0.5	1.61	44	<10	260	0.7	2	1.45	1.6	11	29	30	3.22

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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64089		10	<1	0.24	10	0.80	873	1	0.03	52	990	17	0.12	<2	2	36
CC64090		10	<1	0.37	20	1.00	607	1	0.03	45	660	14	0.09	<2	3	38
CC64091		<10	<1	0.18	10	1.41	719	1	0.03	28	970	15	0.09	<2	3	92
CC64092		<10	<1	0.18	10	1.58	736	1	0.02	20	1280	9	0.08	<2	2	108
CC64093		10	<1	0.12	10	2.22	1765	1	0.03	25	1330	11	0.08	<2	5	98
CC64094		10	<1	0.39	10	1.39	692	1	0.02	184	1120	4	0.06	<2	9	27
CC64095		10	<1	0.34	10	1.10	626	1	0.04	73	1940	10	0.06	<2	4	37
CC64096		<10	<1	0.11	10	0.64	540	1	0.01	32	1280	7	0.03	<2	2	36
CC64097		10	<1	0.06	30	0.75	4990	1	0.02	60	2570	23	0.10	2	6	49
CC64098		10	<1	0.09	10	1.17	900	1	0.02	59	1060	13	0.04	<2	4	35
CC64099		10	<1	0.09	10	1.27	1090	1	0.03	61	1220	14	0.05	2	4	35
CC64100		10	<1	0.08	10	1.69	805	1	0.03	61	1060	15	0.06	2	4	28
CC64101		<10	<1	0.05	10	0.57	755	1	0.02	29	1140	122	0.06	2	3	18
CC64102		<10	<1	0.05	10	1.66	660	1	0.02	29	780	58	0.06	2	2	38
CC64110		<10	<1	0.05	10	4.00	604	1	0.02	21	780	47	0.06	2	1	28
CC64111		<10	<1	0.06	10	0.64	860	1	0.02	28	960	85	0.08	<2	2	17
CC64112		<10	<1	0.06	20	0.88	743	1	0.02	30	1110	70	0.06	2	2	21
CC64113		<10	<1	0.02	<10	8.02	342	<1	0.02	8	350	59	0.03	<2	<1	44
CC64114		<10	<1	0.07	10	1.77	1000	2	0.02	31	1080	51	0.09	2	1	31
CC64115		<10	<1	0.06	10	5.41	765	1	0.02	35	1620	135	0.11	3	2	53
CC64116		<10	<1	0.07	10	7.38	631	1	0.02	46	1150	31	0.06	<2	2	52
CC64117		<10	<1	0.13	10	5.57	1025	1	0.02	44	1730	115	0.07	2	3	57
CC64118		<10	<1	0.07	10	3.85	2050	1	0.03	57	1630	691	0.12	6	3	63
CC64119		<10	<1	0.08	20	1.80	2190	1	0.02	41	2030	877	0.13	8	2	39
CC64120		<10	<1	0.18	10	6.11	1600	1	0.02	45	1360	367	0.07	5	4	71
CC64121		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64122		<10	<1	0.18	20	5.62	2920	1	0.03	36	1020	415	0.09	5	2	74
CC64123		<10	<1	0.04	10	0.40	1110	<1	0.02	17	950	81	0.22	<2	1	121
CC64124		<10	<1	0.09	10	3.77	1150	1	0.02	34	650	78	0.04	4	3	36
CC64125		10	<1	0.13	10	1.95	664	1	0.02	85	750	31	0.09	<2	5	20
CC64126		<10	<1	0.16	10	3.37	1030	1	0.01	98	700	138	0.04	<2	7	41
CC64127		<10	<1	0.03	<10	0.31	225	2	0.01	19	150	8	<0.01	3	2	197
CC64128		<10	<1	0.06	10	1.98	359	1	0.01	64	740	15	0.03	<2	3	33
CC64129		<10	<1	0.05	10	2.18	383	1	0.01	51	650	15	0.03	<2	3	69
CC64130		<10	<1	0.05	10	2.28	236	<1	0.01	28	330	9	<0.01	3	3	214
CC64131		<10	<1	0.08	10	1.91	935	2	0.01	30	870	56	0.04	4	2	22
CC64132		<10	<1	0.08	10	1.41	591	2	0.02	25	780	32	0.04	<2	2	23
CC64133		<10	<1	0.06	10	0.49	633	1	0.01	22	1030	50	0.05	<2	2	19
CC64134		<10	<1	0.09	10	1.16	928	1	0.02	32	1030	77	0.09	2	2	24
CC64135		10	<1	0.09	10	0.65	1055	2	0.02	36	1160	58	0.12	<2	2	21

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC64089		<20	0.07	<10	<10	50	<10	109
CC64090		<20	0.10	<10	<10	40	<10	119
CC64091		<20	0.04	<10	<10	32	<10	126
CC64092		<20	0.02	<10	<10	16	<10	73
CC64093		<20	0.05	<10	<10	54	<10	82
CC64094		<20	0.22	<10	<10	143	<10	84
CC64095		<20	0.11	<10	<10	82	<10	91
CC64096		<20	0.12	<10	<10	47	<10	60
CC64097		<20	0.05	<10	<10	56	<10	91
CC64098		<20	0.13	<10	<10	62	<10	82
CC64099		<20	0.12	<10	<10	60	<10	93
CC64100		<20	0.11	<10	<10	65	<10	102
CC64101		<20	0.03	<10	<10	55	<10	347
CC64102		<20	0.02	<10	<10	40	<10	183
CC64110		<20	0.02	<10	<10	34	<10	180
CC64111		<20	0.03	<10	<10	49	<10	285
CC64112		<20	0.03	<10	<10	48	<10	238
CC64113		<20	0.01	<10	<10	12	<10	161
CC64114		<20	0.01	<10	<10	34	<10	215
CC64115		<20	0.01	<10	<10	25	<10	392
CC64116		<20	0.01	<10	<10	24	<10	487
CC64117		<20	0.01	<10	<10	29	<10	478
CC64118		<20	0.01	<10	<10	24	<10	1785
CC64119		<20	0.01	<10	<10	26	<10	2310
CC64120		<20	0.05	<10	<10	31	<10	1215
CC64121		NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64122		<20	0.01	<10	<10	23	<10	1745
CC64123		<20	0.01	<10	<10	11	<10	368
CC64124		<20	0.02	<10	<10	34	<10	346
CC64125		<20	0.07	<10	<10	58	<10	233
CC64126		<20	0.08	<10	<10	60	<10	300
CC64127		<20	0.01	<10	<10	4	<10	44
CC64128		<20	0.03	<10	<10	31	<10	97
CC64129		<20	0.07	<10	<10	37	<10	81
CC64130		<20	0.04	<10	<10	17	<10	45
CC64131		<20	0.01	<10	<10	40	<10	292
CC64132		<20	0.02	<10	<10	36	<10	180
CC64133		<20	0.02	<10	<10	49	<10	220
CC64134		<20	0.02	<10	<10	43	<10	358
CC64135		<20	0.02	<10	<10	49	<10	337

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC64136		0.12	0.003	0.4	1.17	23	<10	180	0.5	<2	4.23	2.0	9	21	29	2.78
CC64137		0.14	0.003	0.7	1.34	31	<10	200	0.7	<2	3.83	3.0	10	23	24	3.18
CC64138		0.09	<0.001	0.2	1.14	20	<10	200	0.5	<2	1.19	1.3	8	19	16	2.49
CC64139		0.13	0.007	0.4	0.83	46	<10	170	<0.5	<2	7.09	1.2	8	17	21	2.34
CC64140		0.09	0.009	0.7	1.44	158	<10	210	0.7	5	0.56	1.4	13	28	30	3.83
CC64141		0.08	0.007	0.4	1.19	45	<10	270	0.6	<2	1.46	1.5	9	25	29	2.91
CC64142		0.12	0.009	0.6	0.98	30	<10	850	0.5	2	8.03	2.1	8	22	26	2.44
CC64143		0.09	0.003	<0.2	1.79	19	<10	220	0.8	<2	1.02	1.3	11	31	12	3.55
CC64144		0.09	0.007	0.4	1.37	13	<10	200	0.6	<2	2.00	1.5	8	26	18	2.79
CC64145		0.07	0.004	0.4	1.21	13	<10	470	0.5	2	1.32	0.7	10	25	15	2.63
CC64146		0.11	0.008	0.2	0.49	26	<10	300	<0.5	2	11.90	1.0	7	13	16	2.25
CC64147		0.11	0.006	0.5	0.45	22	<10	250	<0.5	<2	11.95	1.5	6	12	14	1.78
CC64148		0.09	0.003	<0.2	1.64	26	<10	250	0.7	<2	2.01	0.9	13	33	19	3.72
CC64149		0.09	0.008	0.3	1.02	19	<10	290	0.5	<2	5.80	1.0	6	21	20	2.56
CC64150		0.09	0.003	0.4	0.82	14	<10	420	<0.5	<2	5.20	1.0	15	21	38	3.22
CC64151		0.14	0.003	0.5	0.91	16	<10	310	<0.5	<2	2.50	1.1	14	25	35	3.87
CC64152		0.07	0.005	0.5	1.21	15	<10	620	<0.5	<2	2.13	2.5	16	38	37	4.19
CC64153		0.10	0.005	0.9	1.36	16	<10	710	0.6	<2	2.99	3.6	12	40	29	3.45
CC64154		0.08	0.003	0.4	1.80	16	<10	560	0.5	<2	2.42	1.2	16	65	27	3.84
CC64155		0.14	0.005	0.5	1.68	18	<10	270	<0.5	<2	5.56	1.9	14	66	29	3.57
CC64156		0.09	0.002	<0.2	2.75	9	<10	280	<0.5	<2	1.86	<0.5	24	134	52	4.94
CC64157		0.10	0.002	0.2	2.50	4	<10	100	<0.5	<2	4.92	<0.5	22	123	46	4.44
CC64158		0.30	0.001	<0.2	0.37	23	<10	140	<0.5	2	15.1	<0.5	14	24	38	4.16
CC64159		0.11	0.002	<0.2	0.85	8	<10	180	<0.5	<2	12.60	<0.5	11	15	19	3.24
CC64160		0.21	0.001	0.2	0.87	4	<10	110	<0.5	<2	13.15	<0.5	15	11	25	4.13
CC64161		0.13	0.002	0.5	1.08	17	<10	260	0.5	<2	4.49	1.1	7	18	24	2.30
CC64162		0.21	0.004	0.4	0.84	18	<10	180	<0.5	<2	8.11	1.0	6	15	20	2.05
CC64163		0.15	0.003	0.4	1.14	20	<10	180	0.5	<2	2.92	1.1	7	20	20	2.66
CC64164		0.11	0.003	0.6	1.38	22	<10	340	0.6	<2	1.66	1.6	9	24	28	2.88
CC64165		0.14	0.004	0.5	1.35	21	<10	380	0.6	<2	1.51	1.2	9	24	21	2.95
CC64166		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64167		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64168		0.26	0.006	0.5	1.41	22	<10	390	0.7	<2	1.58	0.8	10	25	22	3.16
CC64169		0.18	0.004	0.6	1.34	23	<10	300	0.6	<2	1.04	1.6	10	25	23	3.27
CC64170		0.18	0.004	0.5	1.20	22	<10	280	0.6	<2	3.52	1.1	9	23	32	3.12
CC64171		0.27	0.001	<0.2	0.89	10	<10	150	<0.5	<2	14.9	<0.5	12	53	19	2.65
CC64172		0.13	NSS	0.2	1.19	13	<10	330	0.5	<2	8.48	0.9	11	26	20	3.55
CC64173		0.19	0.001	0.3	2.60	11	<10	200	<0.5	<2	2.26	<0.5	25	135	66	5.16
CC64174		0.12	0.002	0.3	2.13	12	<10	210	0.5	<2	1.95	0.6	14	96	36	3.59
CC64175		0.14	0.001	0.4	1.62	16	<10	190	<0.5	<2	3.28	0.5	11	67	26	3.17

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Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64136		<10	<1	0.14	10	2.77	814	2	0.02	38	950	54	0.04	<2	2	40
CC64137		<10	<1	0.10	20	2.49	1225	2	0.02	50	760	82	0.04	2	3	28
CC64138		<10	<1	0.06	10	0.46	825	2	0.01	26	880	47	0.09	<2	2	15
CC64139		<10	<1	0.10	10	4.64	722	1	0.02	27	860	59	0.03	2	2	42
CC64140		<10	<1	0.07	20	0.46	1050	1	0.01	39	1230	226	0.06	4	3	18
CC64141		<10	<1	0.07	10	0.71	790	1	0.02	34	1190	84	0.06	2	2	23
CC64142		<10	<1	0.05	10	5.15	1795	1	0.03	23	960	232	0.06	2	2	40
CC64143		<10	<1	0.05	10	0.54	1210	1	0.02	21	870	41	0.07	<2	2	15
CC64144		<10	<1	0.05	10	0.77	911	1	0.02	24	1030	38	0.12	<2	2	19
CC64145		10	<1	0.05	10	0.58	676	1	0.02	27	780	60	0.08	<2	2	20
CC64146		<10	<1	0.07	10	7.85	750	1	0.03	25	950	69	0.05	<2	2	60
CC64147		<10	<1	0.07	10	7.88	972	2	0.02	24	940	74	0.05	<2	1	57
CC64148		10	<1	0.11	10	1.12	852	2	0.02	40	950	90	0.07	2	3	23
CC64149		<10	<1	0.06	10	3.31	602	1	0.02	24	1850	63	0.09	<2	2	39
CC64150		<10	<1	0.06	10	2.93	704	1	0.02	44	1630	61	0.09	2	3	45
CC64151		<10	<1	0.06	10	1.41	590	1	0.02	43	1130	73	0.06	<2	3	27
CC64152		<10	<1	0.08	10	0.72	1125	1	0.03	51	1410	158	0.14	2	3	33
CC64153		<10	<1	0.07	20	1.90	1535	1	0.03	45	1130	221	0.09	2	3	32
CC64154		10	<1	0.07	10	1.78	909	1	0.03	58	900	104	0.09	<2	4	26
CC64155		10	<1	0.09	10	4.30	1350	2	0.02	60	780	136	0.06	<2	4	40
CC64156		10	<1	0.07	10	2.75	430	<1	0.02	113	740	17	0.08	<2	6	24
CC64157		10	<1	0.10	10	2.70	533	<1	0.02	84	680	12	0.06	<2	4	76
CC64158		<10	<1	0.14	10	8.21	383	4	0.01	66	360	9	0.15	<2	3	74
CC64159		<10	<1	0.22	10	0.84	445	<1	0.02	34	490	16	0.09	<2	2	135
CC64160		<10	<1	0.27	10	0.96	415	<1	0.01	47	360	13	0.08	<2	2	176
CC64161		<10	<1	0.08	10	2.38	589	1	0.01	23	1010	42	0.09	<2	2	28
CC64162		<10	<1	0.07	10	5.29	547	1	0.01	21	840	36	0.04	2	2	35
CC64163		<10	<1	0.07	10	1.48	582	2	0.01	27	1090	49	0.09	2	2	24
CC64164		<10	<1	0.09	10	0.59	771	2	0.01	32	1170	48	0.12	2	2	23
CC64165		<10	<1	0.08	10	0.54	884	1	0.01	28	1130	50	0.10	2	2	20
CC64166		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64167		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64168		<10	<1	0.08	10	1.03	854	2	0.01	32	790	50	0.05	2	2	21
CC64169		<10	<1	0.07	20	0.72	990	2	0.01	35	680	57	0.05	2	2	16
CC64170		<10	<1	0.09	10	2.23	812	2	0.01	36	860	44	0.03	2	3	32
CC64171		<10	<1	0.22	10	0.93	350	3	0.01	58	320	6	0.07	<2	4	159
CC64172		<10	<1	0.10	10	0.55	3190	1	0.02	38	1510	22	0.17	<2	1	85
CC64173		10	<1	0.08	10	3.38	641	2	0.01	110	810	24	0.07	<2	7	27
CC64174		10	<1	0.06	10	2.03	459	2	0.02	66	760	26	0.08	<2	4	28
CC64175		10	<1	0.06	10	2.52	484	2	0.01	50	680	32	0.07	<2	3	29

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CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC64136		<20	0.02	<10	<10	36	<10	332
CC64137		<20	0.01	<10	<10	41	<10	482
CC64138		<20	0.01	<10	<10	37	<10	270
CC64139		<20	0.01	<10	<10	30	<10	259
CC64140		<20	0.02	<10	<10	52	<10	714
CC64141		<20	0.02	<10	<10	41	<10	379
CC64142		<20	0.02	<10	<10	46	<10	587
CC64143		<20	0.02	<10	<10	63	<10	190
CC64144		<20	0.02	<10	<10	50	<10	220
CC64145		<20	0.02	<10	<10	41	<10	228
CC64146		<20	0.01	<10	<10	26	<10	325
CC64147		<20	0.01	<10	<10	26	<10	380
CC64148		<20	0.02	<10	<10	55	<10	257
CC64149		<20	0.01	<10	<10	35	<10	234
CC64150		<20	0.02	<10	<10	30	<10	258
CC64151		<20	0.02	<10	<10	32	<10	331
CC64152		<20	0.05	<10	<10	39	<10	808
CC64153		<20	0.03	<10	<10	44	<10	1070
CC64154		<20	0.03	<10	<10	50	<10	361
CC64155		<20	0.04	<10	<10	48	<10	494
CC64156		<20	0.06	<10	<10	70	<10	135
CC64157		<20	0.11	<10	<10	59	<10	114
CC64158		<20	0.01	<10	<10	14	<10	51
CC64159		<20	0.01	<10	<10	11	<10	75
CC64160		<20	0.02	<10	<10	8	<10	56
CC64161		<20	0.02	<10	<10	33	<10	261
CC64162		<20	0.01	<10	<10	27	<10	200
CC64163		<20	0.02	<10	<10	36	<10	254
CC64164		<20	0.01	<10	<10	41	<10	346
CC64165		<20	0.01	<10	<10	42	<10	292
CC64166		NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64167		NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64168		<20	0.01	<10	<10	42	<10	230
CC64169		<20	0.01	<10	<10	43	<10	306
CC64170		<20	0.02	<10	<10	37	<10	252
CC64171		<20	0.07	<10	<10	24	<10	45
CC64172		<20	0.01	<10	<10	27	<10	198
CC64173		<20	0.09	<10	<10	75	<10	121
CC64174		<20	0.06	<10	<10	63	<10	134
CC64175		<20	0.04	<10	<10	49	<10	151

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC64176		0.10	0.002	0.2	2.34	10	<10	210	0.5	<2	2.71	0.7	17	118	30	3.80
CC64177		0.16	0.003	0.4	1.65	17	<10	370	0.5	<2	2.80	0.7	13	66	33	3.44
CC64178		0.09	0.002	0.3	1.15	11	<10	530	0.5	<2	4.23	2.0	7	27	22	2.30
CC64179		0.22	0.003	0.5	1.05	18	<10	280	<0.5	<2	4.41	0.9	7	23	27	2.73
CC64180		0.15	0.004	0.5	1.12	15	<10	420	0.5	<2	3.74	1.0	8	24	26	2.70
CC64181		0.17	0.003	0.5	1.04	19	<10	330	0.5	<2	5.82	1.1	7	22	21	2.78
CC64182		0.17	0.004	0.3	0.94	14	<10	130	<0.5	<2	3.52	0.7	7	20	23	2.73
CC64183		0.14	0.004	0.4	1.03	17	<10	450	0.5	<2	4.67	1.0	7	21	26	2.45
CC64184		0.12	0.004	0.4	1.11	14	<10	480	0.5	<2	3.07	0.9	9	23	30	2.57
CC64185		0.16	0.012	0.6	1.26	68	<10	300	0.6	3	1.41	1.4	11	27	31	3.28
CC64186		0.19	0.005	0.5	1.26	16	<10	450	0.6	<2	1.06	0.9	9	24	30	2.91
CC64187		0.17	0.004	0.5	0.98	14	<10	320	0.5	<2	1.42	0.8	8	19	29	2.67
CC64188		0.13	0.004	0.4	0.86	18	<10	320	<0.5	<2	0.97	0.6	8	17	30	2.72
CC64189		0.21	0.005	0.4	0.88	20	<10	190	<0.5	<2	5.17	1.1	7	16	21	2.34
CC64190		0.11	0.003	0.4	1.14	18	<10	360	0.5	<2	3.43	1.2	6	20	23	2.44
CC64191		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64192		0.20	0.004	0.3	0.84	16	<10	230	<0.5	<2	8.57	0.9	5	14	16	1.75
CC64193		0.16	0.002	0.3	1.73	19	<10	320	0.7	<2	1.40	1.6	10	27	14	3.12
CC64194		0.16	0.002	0.2	1.69	19	<10	180	0.8	<2	3.15	1.8	8	24	12	2.99
CC64195		0.11	<0.001	0.2	1.42	14	<10	230	0.5	<2	1.04	1.1	7	22	10	2.72
CC64196		0.14	0.004	0.3	1.92	24	<10	460	0.8	<2	0.57	0.8	12	32	18	3.65
CC64197		0.15	0.012	0.5	1.49	19	<10	530	0.7	<2	1.36	1.2	10	28	22	3.04
CC64198		0.14	0.005	0.7	1.56	22	<10	570	0.7	<2	1.72	0.8	11	26	37	2.94
CC64199		0.14	0.002	0.3	1.30	16	<10	250	0.5	<2	1.56	1.3	8	22	12	2.48
CC64200		0.17	0.007	0.5	1.10	24	<10	260	0.5	<2	3.53	0.8	9	22	25	2.72
CC64201		0.11	0.004	0.4	1.36	14	<10	250	0.5	<2	1.16	1.4	8	24	15	2.71
CC64202		0.16	0.010	0.5	0.80	23	<10	280	<0.5	<2	7.51	1.6	8	13	27	1.99
CC64203		0.15	0.005	0.4	0.53	22	<10	870	<0.5	<2	8.97	0.9	10	9	21	1.62
CC64204		0.20	0.007	0.6	0.79	27	<10	510	<0.5	<2	6.78	1.3	11	14	19	2.06
CC64205		0.27	0.009	0.5	0.85	24	<10	480	<0.5	<2	5.98	1.0	9	16	23	2.24
CC64206		0.18	0.005	0.5	1.10	19	<10	560	0.5	<2	2.79	1.3	10	27	30	2.54
CC64207		0.18	0.004	0.5	1.09	15	<10	240	0.5	<2	2.41	0.8	10	22	25	2.97
CC64208		0.16	0.004	0.5	1.09	18	<10	160	0.5	3	1.58	0.7	9	22	21	2.89
CC64209		0.25	0.004	0.5	1.15	13	<10	300	0.5	<2	3.68	0.7	9	22	23	2.51
CC64210		0.15	0.004	0.5	1.16	13	<10	480	0.5	<2	1.73	0.8	9	23	22	2.60

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64176		10	<1	0.08	10	3.00	564	1	0.01	75	650	26	0.07	<2	6	25
CC64177		<10	<1	0.07	10	2.07	625	2	0.01	52	900	59	0.07	<2	3	33
CC64178		<10	<1	0.06	10	1.44	824	1	0.02	25	1120	29	0.16	<2	1	35
CC64179		<10	<1	0.06	10	2.77	708	1	0.01	27	970	43	0.06	<2	2	33
CC64180		<10	<1	0.06	10	2.01	640	1	0.02	28	1020	43	0.07	<2	2	32
CC64181		<10	<1	0.12	10	3.41	955	2	0.02	26	940	57	0.07	<2	2	43
CC64182		<10	<1	0.06	10	2.22	434	1	0.01	26	810	38	0.03	<2	3	33
CC64183		<10	<1	0.06	10	2.50	579	1	0.02	27	940	44	0.08	<2	2	34
CC64184		<10	<1	0.06	10	1.46	678	2	0.02	32	930	51	0.08	2	2	29
CC64185		<10	<1	0.08	20	0.83	1015	1	0.01	39	1250	116	0.06	2	3	24
CC64186		<10	<1	0.08	10	0.55	503	1	0.01	31	1020	47	0.07	2	3	23
CC64187		<10	<1	0.07	10	0.58	699	1	0.01	25	970	43	0.07	2	2	26
CC64188		<10	<1	0.08	10	0.42	524	1	0.01	24	990	46	0.07	<2	2	25
CC64189		<10	<1	0.06	10	3.23	941	2	0.01	23	960	50	0.05	<2	2	32
CC64190		<10	<1	0.06	10	1.57	872	1	0.01	24	1230	43	0.12	<2	1	25
CC64191		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64192		<10	<1	0.05	10	5.55	595	1	0.01	18	750	31	0.05	<2	1	29
CC64193		<10	<1	0.08	10	0.86	581	2	0.01	26	600	52	0.05	2	3	16
CC64194		10	<1	0.06	10	1.75	894	2	0.01	21	900	62	0.06	<2	2	16
CC64195		<10	<1	0.06	10	0.53	686	1	0.01	16	600	47	0.07	<2	2	12
CC64196		<10	<1	0.08	10	0.65	562	2	0.01	28	410	58	0.02	<2	4	13
CC64197		<10	1	0.07	10	0.69	809	2	0.02	27	950	56	0.06	<2	2	19
CC64198		<10	1	0.06	10	0.88	962	1	0.02	28	1210	52	0.08	<2	2	15
CC64199		<10	<1	0.04	10	0.81	575	1	0.01	18	630	45	0.06	<2	2	13
CC64200		<10	<1	0.07	10	2.28	561	1	0.01	26	920	51	0.03	2	3	25
CC64201		10	<1	0.06	10	0.59	580	1	0.01	20	880	40	0.08	2	2	13
CC64202		<10	<1	0.05	10	4.88	701	1	0.01	21	770	51	0.04	2	2	28
CC64203		<10	1	0.03	10	5.43	498	1	0.02	20	640	36	0.05	<2	1	34
CC64204		<10	<1	0.04	10	4.02	1015	1	0.02	23	770	46	0.04	<2	2	29
CC64205		<10	<1	0.06	10	3.70	512	1	0.01	22	810	40	0.02	2	2	34
CC64206		<10	1	0.07	10	1.41	568	1	0.02	27	1010	40	0.06	<2	2	26
CC64207		10	<1	0.08	10	1.41	646	2	0.02	29	920	47	0.03	3	3	30
CC64208		10	1	0.07	10	0.88	608	2	0.02	26	610	43	0.04	2	3	21
CC64209		<10	1	0.06	10	2.24	616	1	0.01	26	950	32	0.03	<2	3	29
CC64210		<10	<1	0.05	10	0.65	737	1	0.02	25	1100	40	0.08	<2	2	29

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087190

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC64176		<20	0.08	<10	<10	72	<10	148
CC64177		<20	0.04	<10	<10	53	<10	249
CC64178		<20	0.01	<10	<10	32	<10	173
CC64179		<20	0.02	<10	<10	35	<10	201
CC64180		<20	0.02	<10	<10	37	<10	218
CC64181		<20	0.01	<10	<10	34	<10	211
CC64182		<20	0.03	<10	<10	34	<10	184
CC64183		<20	0.02	<10	<10	34	<10	204
CC64184		<20	0.02	<10	<10	37	<10	226
CC64185		<20	0.02	<10	<10	46	<10	449
CC64186		<20	0.02	<10	<10	41	<10	257
CC64187		<20	0.02	<10	<10	32	<10	201
CC64188		<20	0.02	<10	<10	30	<10	191
CC64189		<20	0.02	<10	<10	33	<10	243
CC64190		<20	0.01	<10	<10	34	<10	220
CC64191		NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC64192		<20	0.01	<10	<10	27	<10	165
CC64193		<20	0.01	<10	<10	50	<10	294
CC64194		<20	0.01	<10	<10	54	<10	225
CC64195		<20	0.02	<10	<10	49	<10	324
CC64196		<20	0.02	<10	<10	58	<10	235
CC64197		<20	0.02	<10	<10	47	<10	276
CC64198		<20	0.01	<10	<10	46	<10	189
CC64199		<20	0.02	<10	<10	43	<10	163
CC64200		<20	0.02	<10	<10	35	<10	222
CC64201		<20	0.02	<10	<10	42	<10	244
CC64202		<20	0.01	<10	<10	24	<10	400
CC64203		<20	0.01	<10	<10	17	<10	269
CC64204		<20	0.02	<10	<10	27	<10	356
CC64205		<20	0.02	<10	<10	28	<10	247
CC64206		<20	0.02	<10	<10	35	<10	273
CC64207		<20	0.02	<10	<10	36	<10	208
CC64208		<20	0.02	<10	<10	39	<10	164
CC64209		<20	0.02	<10	<10	34	<10	188
CC64210		<20	0.02	<10	<10	36	<10	228

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087190

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE VO09087129

Project: RAU

P.O. No.:

This report is for 147 Soil samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 14-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62501		0.11	0.003	1.0	0.75	24	<10	430	<0.5	2	12.75	4.9	12	12	24	3.55
CC62502		0.08	0.004	0.6	1.64	72	<10	280	0.8	9	2.14	2.9	15	28	57	4.05
CC62503		0.13	0.003	<0.2	0.79	20	<10	140	<0.5	<2	12.30	1.4	5	10	9	1.54
CC62504		0.09	0.006	<0.2	1.52	20	<10	300	0.6	2	2.10	1.9	11	24	20	2.86
CC62505		0.14	0.012	0.3	0.22	26	<10	130	<0.5	<2	17.2	2.1	4	5	6	0.91
CC62506		0.14	0.002	0.2	0.20	12	<10	150	<0.5	<2	16.3	2.0	3	6	4	0.71
CC62507		0.14	0.002	<0.2	0.22	14	<10	210	<0.5	<2	9.53	1.0	11	6	16	2.41
CC62508		0.14	0.004	<0.2	0.39	16	<10	920	<0.5	2	7.90	1.4	12	6	17	2.26
CC62509		0.12	0.005	<0.2	0.37	18	<10	1490	<0.5	<2	8.35	2.1	11	7	18	2.45
CC62510		0.10	0.004	0.8	0.39	23	<10	2960	<0.5	<2	10.90	3.5	9	9	11	2.02
CC62511		0.11	0.004	0.4	0.41	10	<10	230	<0.5	<2	15.6	5.1	5	6	6	1.15
CC62512		0.12	0.007	0.6	1.03	23	<10	450	0.5	15	9.36	4.6	7	15	15	2.42
CC62513		0.11	0.002	0.2	0.28	15	<10	80	<0.5	<2	16.2	1.6	4	7	5	0.80
CC62514		0.09	0.012	1.1	0.97	23	<10	460	0.6	3	1.49	3.9	9	14	17	3.21
CC62515		0.09	0.002	0.3	1.67	25	<10	330	0.6	<2	0.85	1.9	10	27	15	3.22
CC62516		0.14	0.002	0.3	0.16	260	<10	90	<0.5	38	17.4	2.2	5	8	9	2.33
CC62517		0.16	0.002	0.7	0.08	16	<10	290	<0.5	<2	17.7	9.8	2	3	6	0.78
CC62518		0.07	0.003	0.2	1.36	37	<10	200	0.6	7	2.35	2.1	9	22	15	2.69
CC62519		0.12	0.002	0.2	0.57	14	<10	310	<0.5	2	12.00	3.6	5	8	8	1.12
CC62520		0.11	<0.001	<0.2	0.06	2	<10	50	<0.5	<2	18.2	1.4	2	<1	<1	0.26
CC62521		0.10	0.006	0.4	1.06	65	<10	200	0.6	<2	5.34	2.7	10	17	19	2.76
CC62522		0.07	0.002	0.2	0.47	25	<10	100	<0.5	2	5.35	1.7	7	7	11	2.04
CC62523		0.07	0.033	1.8	1.04	66	<10	420	0.7	6	1.09	11.7	14	21	26	3.57
CC62524		0.17	0.016	0.5	0.31	46	<10	150	<0.5	4	12.95	2.4	6	7	13	1.35
CC62525		0.12	0.025	1.2	0.72	60	<10	190	0.5	4	8.06	5.8	8	16	17	2.42
CC62526		0.10	0.014	0.4	1.25	42	<10	270	0.6	5	2.34	2.4	9	25	18	3.22
CC62527		0.17	0.032	0.5	0.25	62	<10	90	<0.5	5	16.7	1.5	5	9	13	1.49
CC62528		0.10	0.038	1.9	1.17	154	<10	260	0.5	15	4.88	4.5	10	25	29	3.42
CC62529		0.12	0.106	3.0	0.39	234	<10	340	<0.5	40	8.53	8.3	9	11	22	4.06
CC62530		0.09	0.078	4.8	0.77	290	<10	280	<0.5	116	3.70	6.2	15	18	36	4.86
CC62531		0.08	0.028	0.4	0.60	60	<10	140	<0.5	8	5.69	1.1	8	10	22	2.55
CC62532		0.07	0.004	1.5	0.56	25	<10	220	<0.5	2	7.37	2.8	7	8	20	2.23
CC62533		0.08	0.006	0.5	0.83	57	<10	170	<0.5	<2	7.87	2.8	6	12	13	1.81
CC62534		0.06	0.003	0.2	0.70	12	<10	1860	<0.5	<2	4.02	1.7	6	10	15	1.88
CC62535		0.07	0.006	0.5	0.69	16	<10	170	<0.5	<2	5.80	1.3	6	12	18	2.45
CC62536		0.09	0.003	<0.2	0.52	10	<10	80	<0.5	<2	11.50	1.0	5	8	7	1.05
CC62537		0.08	0.007	0.9	1.06	39	<10	540	0.5	4	6.95	5.0	10	15	17	2.97
CC62538		0.08	0.004	1.9	1.34	63	<10	330	0.9	4	0.80	3.1	11	25	25	4.46
CC62539		0.06	0.004	0.2	1.28	36	<10	260	1.0	3	1.32	1.7	13	21	15	5.14
CC62540		0.14	0.043	2.7	0.39	81	<10	180	<0.5	4	11.85	2.3	14	23	42	3.06

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62501		<10	<1	0.12	20	1.13	3570	1	0.02	34	1500	228	0.10	<2	2	143
CC62502		<10	<1	0.12	20	0.84	1600	1	0.03	36	1870	183	0.15	2	2	27
CC62503		<10	<1	0.06	10	8.09	1120	1	0.03	13	1530	57	0.08	<2	1	54
CC62504		<10	<1	0.09	20	0.85	1330	1	0.02	29	1860	105	0.14	<2	2	24
CC62505		<10	<1	0.02	10	11.10	1040	9	0.03	13	430	69	<0.01	<2	1	74
CC62506		<10	<1	0.02	10	10.55	898	5	0.03	12	330	67	<0.01	<2	1	73
CC62507		<10	<1	0.13	20	6.06	1140	4	0.02	17	340	44	0.14	<2	1	73
CC62508		<10	<1	0.13	10	4.89	1330	3	0.02	19	400	58	0.09	<2	1	68
CC62509		<10	<1	0.12	20	5.17	1535	4	0.02	20	500	129	0.08	<2	1	77
CC62510		<10	<1	0.06	10	7.04	1565	6	0.02	18	1100	268	0.13	<2	1	82
CC62511		<10	<1	0.03	10	9.96	2450	2	0.03	9	520	100	0.06	<2	1	66
CC62512		<10	<1	0.06	10	6.23	3420	5	0.03	24	640	110	0.05	<2	2	46
CC62513		<10	<1	0.02	10	10.35	763	2	0.02	11	420	45	<0.01	<2	1	67
CC62514		<10	<1	0.10	20	0.78	2490	3	0.02	24	910	230	0.06	<2	2	19
CC62515		<10	<1	0.08	20	0.39	1830	7	0.01	28	2250	165	0.12	<2	2	18
CC62516		<10	<1	0.02	10	11.45	952	1	0.02	9	290	234	<0.01	4	1	57
CC62517		<10	<1	0.01	<10	11.50	2690	<1	0.02	2	110	466	<0.01	2	<1	54
CC62518		<10	<1	0.08	10	1.31	1080	1	0.02	20	980	117	0.07	<2	2	18
CC62519		<10	<1	0.03	10	8.11	1330	<1	0.02	9	520	153	0.04	<2	1	30
CC62520		<10	1	<0.01	<10	12.00	969	<1	0.02	1	270	16	<0.01	<2	<1	35
CC62521		<10	<1	0.09	20	3.33	1795	1	0.02	26	1010	193	0.05	<2	2	26
CC62522		<10	<1	0.08	10	2.93	874	2	0.02	14	980	84	0.07	<2	1	24
CC62523		<10	<1	0.13	20	0.44	3920	3	0.02	41	1260	613	0.09	3	2	16
CC62524		<10	<1	0.04	10	8.61	931	1	0.02	12	460	293	0.02	2	1	62
CC62525		<10	<1	0.07	10	5.25	1875	4	0.02	29	1060	462	0.07	2	1	38
CC62526		<10	<1	0.09	20	1.36	1330	2	0.03	29	850	212	0.07	<2	2	19
CC62527		<10	<1	0.03	10	9.89	739	3	0.02	16	560	202	0.01	2	1	67
CC62528		<10	<1	0.11	20	2.93	2020	1	0.02	30	1270	411	0.08	3	2	25
CC62529		<10	1	0.09	10	5.60	3190	3	0.02	25	750	508	0.05	5	1	37
CC62530		<10	<1	0.13	20	2.15	2790	3	0.02	38	970	787	0.07	7	2	24
CC62531		<10	<1	0.17	20	3.41	521	1	0.02	16	920	106	0.04	2	1	29
CC62532		<10	<1	0.14	10	4.44	1700	1	0.02	17	850	167	0.09	<2	1	33
CC62533		<10	<1	0.07	10	5.16	936	1	0.02	12	950	112	0.08	3	1	26
CC62534		<10	<1	0.16	10	2.02	511	1	0.02	12	970	75	0.11	<2	1	25
CC62535		<10	<1	0.16	10	3.47	677	1	0.02	17	860	117	0.07	<2	1	27
CC62536		<10	<1	0.04	10	7.62	534	1	0.02	7	860	33	0.05	<2	1	32
CC62537		<10	<1	0.08	10	4.32	2660	1	0.02	19	1160	609	0.07	3	1	25
CC62538		<10	<1	0.10	10	0.43	2630	2	0.01	27	1330	1860	0.07	20	2	12
CC62539		<10	<1	0.13	10	0.53	1425	2	0.01	23	2580	139	0.14	<2	2	17
CC62540		<10	<1	0.09	10	7.95	771	3	0.02	71	870	543	0.09	10	1	40

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Project: RAU

Finalized Date: 14-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62501		<20	0.01	10	<10	19	<10	1525
CC62502		<20	0.02	<10	<10	48	<10	900
CC62503		<20	0.01	<10	<10	29	<10	237
CC62504		<20	0.02	<10	<10	46	<10	329
CC62505		<20	0.01	<10	<10	20	<10	432
CC62506		<20	<0.01	<10	<10	13	<10	441
CC62507		<20	<0.01	<10	<10	7	<10	240
CC62508		<20	0.01	<10	<10	12	<10	299
CC62509		<20	0.01	<10	<10	12	<10	501
CC62510		<20	0.01	<10	<10	24	<10	1215
CC62511		<20	0.01	<10	<10	22	<10	1195
CC62512		<20	0.02	<10	<10	40	<10	1250
CC62513		<20	0.01	<10	<10	15	<10	365
CC62514		<20	0.01	<10	<10	29	<10	733
CC62515		<20	0.02	<10	<10	114	<10	510
CC62516		<20	0.01	<10	<10	28	<10	705
CC62517		<20	<0.01	<10	<10	26	<10	1365
CC62518		<20	0.02	<10	<10	47	<10	389
CC62519		<20	0.01	<10	<10	23	<10	638
CC62520		<20	<0.01	<10	<10	3	<10	243
CC62521		<20	0.02	<10	<10	50	<10	615
CC62522		<20	0.01	<10	<10	28	<10	387
CC62523		<20	0.02	<10	<10	56	<10	1830
CC62524		<20	0.02	<10	<10	22	<10	708
CC62525		<20	0.01	<10	<10	52	<10	1405
CC62526		<20	0.02	<10	<10	60	<10	666
CC62527		<20	0.01	<10	<10	23	<10	396
CC62528		<20	0.01	<10	<10	46	<10	1530
CC62529		<20	0.01	<10	<10	23	10	2150
CC62530		<20	0.01	<10	<10	30	20	2040
CC62531		<20	0.01	<10	<10	23	<10	381
CC62532		<20	0.01	<10	<10	23	<10	752
CC62533		<20	0.01	<10	<10	26	<10	596
CC62534		<20	0.01	<10	<10	21	<10	339
CC62535		<20	0.01	<10	<10	26	<10	405
CC62536		<20	0.01	<10	<10	22	<10	187
CC62537		<20	0.01	<10	<10	39	<10	763
CC62538		<20	0.02	<10	<10	73	<10	935
CC62539		<20	0.02	<10	<10	46	<10	351
CC62540		<20	0.01	<10	<10	40	<10	987

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Project: RAU

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CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62541		0.10	0.004	0.2	0.75	8	<10	90	<0.5	<2	10.55	1.0	6	17	12	1.38
CC62542		0.10	<0.001	0.7	0.54	5	<10	2370	<0.5	<2	11.55	4.8	4	15	10	1.97
CC62543		0.09	0.001	<0.2	0.68	6	<10	130	<0.5	<2	12.25	1.5	6	15	9	1.11
CC62544		0.10	0.001	0.2	0.49	9	<10	110	<0.5	<2	12.55	1.1	4	11	9	1.08
CC62545		0.11	0.001	<0.2	0.16	<2	<10	40	<0.5	<2	17.5	<0.5	1	8	4	0.36
CC62546		0.11	0.006	<0.2	0.80	11	<10	100	<0.5	<2	8.74	<0.5	5	19	11	1.46
CC62547		0.11	0.006	<0.2	0.44	10	<10	100	<0.5	<2	12.70	0.8	3	13	5	0.97
CC62548		0.11	0.001	0.3	0.29	6	<10	70	<0.5	<2	13.75	0.9	3	8	9	0.66
CC62549		0.12	0.001	<0.2	0.26	4	<10	190	<0.5	<2	16.2	0.8	2	8	5	0.49
CC62550		0.13	0.005	0.4	0.53	13	<10	110	<0.5	<2	11.80	1.4	6	11	13	1.23
CC62551		0.24	<0.001	<0.2	0.12	5	<10	60	<0.5	<2	17.5	1.1	3	2	2	0.32
CC62552		0.16	0.001	<0.2	0.20	<2	<10	40	<0.5	<2	16.9	1.1	2	2	2	0.28
CC62553		0.15	<0.001	<0.2	0.22	2	<10	60	<0.5	<2	16.8	0.8	3	3	4	0.37
CC62554		0.14	0.002	0.4	0.61	8	<10	110	<0.5	<2	12.65	0.8	8	11	12	1.13
CC62555		0.15	0.002	<0.2	0.54	11	<10	570	<0.5	<2	8.37	0.5	4	42	15	2.33
CC62556		0.16	0.005	<0.2	0.58	7	<10	110	<0.5	<2	11.05	0.9	4	9	7	1.06
CC62557		0.19	0.006	<0.2	0.43	11	<10	130	<0.5	<2	13.10	1.2	4	7	8	1.05
CC62558		0.09	0.005	0.4	0.65	18	<10	130	<0.5	<2	10.60	2.5	5	9	12	1.31
CC62559		0.20	0.002	0.6	0.38	12	<10	90	<0.5	<2	14.4	1.1	3	6	6	0.89
CC62560		0.17	0.004	0.2	0.42	92	<10	60	<0.5	20	11.95	0.9	4	7	7	1.24
CC62561		0.13	0.001	<0.2	1.36	19	<10	190	0.5	<2	3.40	0.8	9	20	11	2.39
CC62562		0.15	0.003	<0.2	0.39	16	<10	120	<0.5	<2	10.60	0.6	5	7	8	1.27
CC62563		0.14	0.003	<0.2	0.43	34	<10	70	<0.5	<2	9.84	0.8	6	9	11	1.51
CC62564		0.12	0.005	<0.2	0.26	57	<10	70	<0.5	<2	12.65	1.0	5	6	9	1.10
CC62565		0.14	0.012	0.7	0.16	27	<10	100	<0.5	<2	13.55	6.0	4	5	7	1.15
CC62566		0.16	0.018	0.4	0.16	14	<10	60	<0.5	<2	11.05	2.4	4	4	6	1.08
CC62567		0.12	0.006	0.7	0.28	22	<10	100	<0.5	<2	12.75	2.8	4	7	6	1.26
CC62568		0.18	0.022	0.4	0.31	24	<10	70	<0.5	<2	15.7	2.1	4	7	6	1.02
CC62569		0.16	0.005	0.3	0.31	12	<10	50	<0.5	<2	15.9	1.4	3	6	6	0.72
CC62570		0.15	0.005	0.4	0.91	16	<10	150	<0.5	<2	8.58	2.2	7	17	15	1.87
CC62571		0.13	0.005	0.7	0.42	25	<10	400	<0.5	<2	10.20	2.6	5	10	8	1.90
CC62572		0.13	0.003	0.5	0.38	20	<10	250	<0.5	<2	7.34	1.6	10	11	19	2.18
CC62573		0.17	0.093	4.0	0.36	276	<10	190	<0.5	21	12.15	5.4	5	10	20	3.11
CC62574		0.17	0.002	0.2	0.23	8	<10	100	<0.5	<2	6.85	1.0	2	8	6	0.80
CC62575		0.19	0.334	3.0	0.53	215	<10	170	<0.5	10	9.81	3.0	8	12	15	2.43
CC62576		0.20	0.009	0.5	0.11	24	<10	90	<0.5	<2	17.8	3.1	3	5	5	0.96
CC62577		0.16	0.015	0.2	0.46	25	<10	150	<0.5	<2	9.75	0.7	6	9	12	1.78
CC62578		0.15	0.012	0.8	0.57	34	<10	120	<0.5	<2	7.88	2.3	8	8	19	2.56
CC62579		0.17	0.008	1.6	0.42	26	<10	180	<0.5	2	8.12	3.0	8	7	18	2.29
CC62580		0.10	0.006	0.4	0.47	17	<10	120	<0.5	<2	2.42	1.1	8	8	26	3.19

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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62541		<10	<1	0.05	10	7.07	725	<1	0.02	11	600	50	0.06	3	1	33
CC62542		<10	<1	0.04	10	6.94	6910	<1	0.02	10	900	256	0.14	<2	<1	59
CC62543		<10	<1	0.04	10	8.18	1385	<1	0.02	8	740	64	0.07	<2	1	38
CC62544		<10	<1	0.03	10	8.42	2040	<1	0.02	7	670	54	0.06	<2	<1	41
CC62545		<10	1	0.01	10	11.20	480	1	0.02	7	270	31	<0.01	<2	<1	38
CC62546		<10	1	0.05	10	5.94	477	1	0.02	16	590	28	0.05	<2	1	29
CC62547		<10	1	0.04	10	8.62	654	<1	0.02	12	400	66	0.03	2	1	36
CC62548		<10	<1	0.04	10	8.82	633	1	0.02	11	1230	125	0.10	<2	<1	52
CC62549		<10	<1	0.02	10	9.96	464	<1	0.02	10	920	36	0.06	<2	<1	58
CC62550		<10	<1	0.04	10	7.78	701	2	0.02	16	810	79	0.05	<2	1	56
CC62551		<10	1	0.01	10	11.15	423	<1	0.02	3	300	60	<0.01	<2	<1	37
CC62552		<10	<1	0.01	10	10.75	241	<1	0.02	1	450	23	<0.01	<2	<1	31
CC62553		<10	<1	0.01	10	10.55	257	<1	0.01	3	390	21	0.02	<2	<1	32
CC62554		<10	1	0.03	10	8.36	383	<1	0.02	19	890	48	0.03	<2	1	31
CC62555		<10	<1	0.24	10	5.33	172	1	0.01	18	640	39	0.36	<2	3	25
CC62556		<10	<1	0.03	10	7.41	411	<1	0.02	10	620	35	0.03	2	1	27
CC62557		<10	<1	0.03	10	8.97	835	<1	0.02	10	420	83	0.01	<2	1	37
CC62558		<10	1	0.04	10	7.12	1120	<1	0.02	11	810	146	0.05	<2	1	32
CC62559		<10	<1	0.02	10	9.14	580	<1	0.02	7	350	81	0.01	<2	1	31
CC62560		<10	<1	0.03	10	8.15	445	<1	0.02	6	420	48	0.01	3	1	36
CC62561		<10	<1	0.06	10	2.12	835	1	0.02	14	780	34	0.05	2	2	19
CC62562		<10	<1	0.04	10	7.06	403	1	0.02	7	580	30	0.03	2	1	49
CC62563		<10	1	0.05	10	6.41	815	<1	0.02	9	720	32	0.06	<2	1	44
CC62564		<10	<1	0.08	10	8.47	606	<1	0.01	6	420	84	0.06	<2	1	50
CC62565		<10	<1	0.04	10	9.08	1310	1	0.02	11	480	315	0.02	2	1	61
CC62566		<10	<1	0.05	10	7.14	700	1	0.01	10	350	122	0.02	2	1	54
CC62567		<10	<1	0.05	10	8.45	1060	3	0.02	12	780	159	0.06	<2	1	58
CC62568		<10	<1	0.02	10	9.76	638	1	0.02	11	390	177	0.01	<2	1	62
CC62569		<10	1	0.02	10	9.86	524	3	0.02	9	440	123	<0.01	<2	1	59
CC62570		<10	<1	0.06	10	5.88	948	1	0.02	19	750	139	0.04	2	2	35
CC62571		<10	1	0.04	10	6.47	1095	3	0.02	10	1480	242	0.06	2	1	47
CC62572		<10	<1	0.07	20	4.43	1465	5	0.01	17	910	156	0.07	2	1	38
CC62573		<10	<1	0.03	10	8.03	2140	4	0.02	21	670	1155	0.03	5	1	56
CC62574		<10	1	0.01	<10	4.10	1260	<1	0.01	4	600	37	0.05	<2	<1	26
CC62575		<10	<1	0.09	10	6.44	1235	2	0.02	17	570	244	0.04	2	1	43
CC62576		<10	<1	0.01	10	11.05	1615	1	0.02	4	310	104	<0.01	2	1	59
CC62577		<10	<1	0.12	10	6.37	560	1	0.02	14	730	59	0.05	2	1	56
CC62578		<10	<1	0.13	10	4.84	1070	2	0.01	20	890	124	0.09	<2	1	42
CC62579		<10	1	0.13	10	5.09	1270	1	0.01	18	540	332	0.06	2	2	40
CC62580		<10	1	0.22	10	1.08	653	1	0.01	19	750	101	0.19	<2	1	20

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

Finalized Date: 14-SEP-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62541		<20	0.01	<10	<10	62	<10	201
CC62542		<20	0.01	10	10	93	<10	887
CC62543		<20	0.01	<10	<10	54	<10	237
CC62544		<20	0.01	<10	<10	42	<10	198
CC62545		<20	0.01	<10	<10	25	<10	103
CC62546		<20	0.02	<10	<10	58	<10	159
CC62547		<20	0.01	<10	<10	42	<10	330
CC62548		<20	<0.01	<10	<10	33	<10	218
CC62549		<20	<0.01	<10	<10	28	<10	148
CC62550		<20	0.01	<10	<10	47	<10	169
CC62551		<20	<0.01	<10	<10	9	<10	100
CC62552		<20	<0.01	<10	<10	9	<10	81
CC62553		<20	0.01	<10	<10	9	<10	88
CC62554		<20	0.01	<10	<10	19	<10	299
CC62555		<20	0.04	<10	<10	32	<10	117
CC62556		<20	0.02	<10	<10	24	<10	149
CC62557		<20	0.02	<10	<10	21	<10	234
CC62558		<20	0.01	<10	<10	31	<10	457
CC62559		<20	0.01	<10	<10	18	<10	189
CC62560		<20	0.01	<10	<10	19	<10	130
CC62561		<20	0.03	<10	<10	45	<10	156
CC62562		<20	0.01	<10	<10	19	<10	113
CC62563		<20	0.01	<10	<10	26	<10	144
CC62564		<20	0.01	<10	<10	23	<10	189
CC62565		<20	<0.01	<10	<10	28	<10	803
CC62566		<20	<0.01	<10	<10	15	<10	570
CC62567		<20	0.01	<10	<10	31	<10	537
CC62568		<20	0.01	<10	<10	25	<10	498
CC62569		<20	0.01	<10	<10	35	<10	244
CC62570		<20	0.02	<10	<10	45	<10	392
CC62571		<20	0.01	<10	<10	22	<10	517
CC62572		<20	0.01	<10	<10	23	<10	381
CC62573		<20	0.01	<10	<10	27	<10	1620
CC62574		<20	<0.01	<10	<10	33	<10	289
CC62575		<20	0.01	<10	<10	30	<10	853
CC62576		<20	<0.01	<10	<10	25	<10	472
CC62577		<20	0.01	<10	<10	25	<10	260
CC62578		<20	0.01	<10	<10	22	<10	734
CC62579		<20	0.01	<10	<10	17	<10	795
CC62580		<20	<0.01	<10	<10	18	<10	305

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62581		0.16	0.004	0.4	0.30	10	<10	100	<0.5	<2	9.25	1.1	4	6	11	1.49
CC62582		0.16	0.006	0.5	0.46	16	<10	150	<0.5	<2	9.28	1.5	6	9	19	2.17
CC62583		0.10	0.008	0.5	0.33	12	<10	120	<0.5	<2	12.75	1.4	5	7	12	1.17
CC62584		0.18	0.015	1.0	0.47	27	<10	260	<0.5	2	8.53	3.1	13	9	31	2.80
CC62585		0.18	0.011	0.6	0.78	36	<10	190	<0.5	<2	5.90	1.2	13	14	26	3.20
CC62586		0.16	0.007	0.4	0.44	33	<10	90	<0.5	<2	4.93	0.6	12	7	35	3.21
CC62587		0.17	0.015	0.5	0.39	148	<10	100	<0.5	9	5.65	1.1	13	11	30	3.71
CC62588		0.20	0.003	<0.2	0.27	12	<10	100	<0.5	<2	4.07	<0.5	3	7	8	1.46
CC62589		0.19	0.003	0.3	0.39	24	<10	220	<0.5	<2	8.29	0.8	6	6	15	2.06
CC62590		0.20	0.005	0.2	0.32	16	<10	70	<0.5	<2	8.12	0.5	4	5	11	1.81
CC62591		0.17	0.012	0.6	0.54	30	<10	120	<0.5	2	11.15	1.2	6	11	11	1.38
CC62592		0.17	0.009	0.6	0.22	43	<10	70	<0.5	<2	15.4	4.8	3	3	8	0.74
CC62593		0.13	0.005	0.6	0.40	29	<10	130	<0.5	<2	9.97	5.1	7	7	17	1.44
CC62594		0.16	0.009	0.8	0.23	248	<10	110	<0.5	6	12.55	2.9	4	5	74	2.79
CC62595		0.16	0.003	0.4	0.14	33	<10	40	<0.5	<2	15.7	0.8	2	2	11	0.56
CC62596		0.19	0.008	0.4	1.53	34	<10	100	<0.5	<2	8.49	0.7	18	62	28	3.26
CC62597		0.16	0.002	<0.2	0.24	8	<10	50	<0.5	<2	15.8	0.6	4	5	6	0.54
CC62598		0.15	0.002	<0.2	0.35	6	<10	50	<0.5	<2	11.15	0.6	3	5	6	0.63
CC62599		0.23	0.007	<0.2	0.33	56	<10	70	<0.5	3	12.20	0.9	4	8	9	1.44
CC62600		0.17	0.005	0.3	0.32	18	<10	120	<0.5	<2	14.8	1.2	5	7	10	0.93
CC62601		0.14	0.007	<0.2	1.32	18	<10	170	0.5	5	3.70	0.9	8	21	15	2.49
CC62602		0.17	0.001	<0.2	0.12	<2	<10	30	<0.5	<2	14.00	0.5	2	2	2	0.24
CC62603		0.14	0.005	0.2	0.62	26	<10	120	<0.5	<2	9.08	1.0	6	11	13	1.65
CC62604		0.19	<0.001	<0.2	0.18	<2	<10	100	<0.5	<2	12.20	0.6	2	3	3	0.38
CC62605		0.12	0.004	0.3	1.43	9	<10	290	0.6	2	2.50	0.9	8	20	12	2.31
CC62606		0.13	0.002	<0.2	0.98	16	<10	210	<0.5	<2	6.06	0.9	7	16	15	1.90
CC62607		0.12	<0.001	<0.2	0.47	4	<10	90	<0.5	<2	8.71	0.7	3	5	8	0.68
CC62608		0.17	0.003	0.3	0.38	12	<10	80	<0.5	<2	12.20	0.9	4	8	8	0.85
CC62609		0.16	0.001	<0.2	0.54	5	<10	110	<0.5	<2	11.55	0.5	4	8	7	0.87
CC62610		0.20	0.003	<0.2	0.49	13	<10	110	<0.5	<2	11.05	0.7	6	9	12	1.30
CC62611		0.11	0.002	0.4	1.25	11	<10	230	0.5	<2	7.50	1.2	5	18	12	1.93
CC62612		0.14	0.002	<0.2	0.89	9	<10	130	<0.5	<2	6.93	0.9	5	12	11	1.48
CC62613		0.16	0.003	0.2	1.14	12	<10	190	<0.5	<2	3.78	0.9	7	19	14	2.15
CC62614		0.19	0.004	<0.2	0.67	6	<10	90	<0.5	<2	7.85	0.6	7	12	13	1.66
CC62615		0.17	0.004	<0.2	1.14	11	<10	220	0.5	<2	3.97	0.7	8	19	16	2.31
CC62616		0.14	0.001	<0.2	0.57	7	<10	120	<0.5	<2	9.71	1.0	5	10	9	0.96
CC62617		0.12	0.008	<0.2	0.85	10	<10	130	<0.5	<2	7.06	0.8	6	18	15	1.67
CC62618		0.19	0.001	<0.2	0.23	5	<10	40	<0.5	<2	15.9	0.5	2	7	4	0.49
CC62619		0.13	0.002	<0.2	0.41	4	<10	80	<0.5	<2	9.09	0.7	2	10	6	0.83
CC62620		0.14	0.006	0.2	1.36	20	<10	170	0.6	<2	2.48	1.1	9	23	18	2.42

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62581		<10	<1	0.13	10	5.99	759	1	0.01	11	540	87	0.07	2	1	46
CC62582		<10	<1	0.10	10	6.17	730	1	0.02	16	700	182	0.04	<2	1	43
CC62583		<10	<1	0.06	10	8.51	788	2	0.02	11	700	126	0.05	<2	1	54
CC62584		<10	<1	0.12	10	5.69	1650	3	0.02	25	740	392	0.04	5	1	48
CC62585		<10	<1	0.15	10	3.58	1030	2	0.02	29	940	132	0.07	3	2	33
CC62586		<10	<1	0.16	20	2.91	366	1	0.01	19	970	49	0.06	<2	1	28
CC62587		<10	<1	0.12	10	3.46	669	2	0.01	33	730	199	0.03	3	2	30
CC62588		<10	<1	0.16	20	2.37	262	1	0.01	6	340	32	0.04	<2	1	20
CC62589		<10	<1	0.12	10	5.21	702	1	0.02	12	500	65	0.05	3	1	33
CC62590		<10	<1	0.12	10	5.36	372	1	0.01	8	480	37	0.04	2	1	32
CC62591		<10	<1	0.05	10	7.26	588	1	0.01	15	770	167	0.03	2	1	35
CC62592		<10	<1	0.02	10	9.49	1070	<1	0.02	4	590	768	0.02	5	<1	36
CC62593		<10	<1	0.08	10	6.39	1385	<1	0.02	14	810	344	0.06	6	1	37
CC62594		<10	<1	0.06	10	8.46	1030	1	0.02	12	710	425	0.03	11	1	40
CC62595		<10	<1	0.01	10	9.71	397	<1	0.02	1	440	39	0.04	<2	<1	37
CC62596		<10	<1	0.06	10	6.45	430	<1	0.02	68	870	29	0.04	2	4	22
CC62597		<10	1	0.03	10	9.96	243	<1	0.01	9	540	12	0.02	<2	1	31
CC62598		<10	<1	0.02	10	7.43	450	<1	0.01	4	750	18	0.03	<2	<1	27
CC62599		<10	<1	0.04	10	8.30	436	<1	0.02	10	460	70	<0.01	3	1	40
CC62600		<10	<1	0.02	10	9.24	362	<1	0.01	11	610	84	0.01	<2	1	33
CC62601		<10	<1	0.07	10	2.34	615	1	0.02	20	730	43	0.05	<2	2	20
CC62602		<10	<1	0.01	10	9.43	252	<1	0.02	<1	560	8	0.03	<2	<1	34
CC62603		<10	<1	0.05	10	5.90	596	1	0.02	15	800	60	0.04	<2	1	34
CC62604		<10	<1	0.01	10	8.03	377	<1	0.01	1	640	9	0.03	<2	<1	38
CC62605		<10	<1	0.06	10	1.39	744	1	0.01	14	1110	26	0.06	<2	1	15
CC62606		<10	<1	0.07	10	3.24	545	1	0.02	16	930	48	0.06	<2	1	26
CC62607		<10	1	0.01	10	5.62	718	<1	0.02	5	860	15	0.08	<2	<1	24
CC62608		<10	<1	0.03	10	7.90	544	<1	0.02	7	1040	36	0.05	<2	1	45
CC62609		<10	1	0.04	10	7.68	448	<1	0.02	7	610	12	0.03	<2	1	35
CC62610		<10	<1	0.09	10	7.49	419	1	0.02	13	570	44	0.03	<2	1	38
CC62611		<10	<1	0.12	10	4.76	755	1	0.03	11	920	69	0.05	<2	1	29
CC62612		<10	<1	0.05	10	4.52	585	1	0.02	10	870	24	0.08	<2	1	21
CC62613		<10	<1	0.06	10	2.34	573	1	0.01	16	920	27	0.04	2	1	22
CC62614		<10	<1	0.07	10	5.16	367	1	0.02	14	840	23	0.02	<2	1	31
CC62615		<10	<1	0.07	10	2.53	503	1	0.02	19	720	28	0.03	<2	2	23
CC62616		<10	<1	0.03	10	6.24	743	<1	0.01	7	950	25	0.05	<2	<1	29
CC62617		<10	<1	0.05	10	4.49	921	2	0.02	16	1110	30	0.07	<2	1	29
CC62618		<10	1	0.02	10	9.98	429	1	0.02	9	660	20	<0.01	<2	<1	47
CC62619		<10	<1	0.02	10	5.79	847	1	0.02	9	1110	47	0.08	2	<1	31
CC62620		10	<1	0.07	10	1.46	922	1	0.02	23	970	79	0.06	<2	2	20

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CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62581		<20	<0.01	<10	<10	18	<10	293
CC62582		<20	0.01	<10	<10	24	<10	382
CC62583		<20	0.01	<10	<10	25	<10	271
CC62584		<20	0.01	<10	<10	25	<10	897
CC62585		<20	0.01	<10	<10	34	<10	409
CC62586		<20	<0.01	<10	<10	17	<10	154
CC62587		<20	0.01	<10	<10	22	<10	437
CC62588		<20	<0.01	<10	<10	18	<10	97
CC62589		<20	0.01	<10	<10	17	<10	153
CC62590		<20	<0.01	<10	<10	14	<10	89
CC62591		<20	0.01	<10	<10	23	<10	266
CC62592		<20	<0.01	<10	<10	15	<10	540
CC62593		<20	0.01	<10	<10	22	<10	922
CC62594		<20	<0.01	<10	<10	21	<10	713
CC62595		<20	<0.01	<10	<10	10	<10	140
CC62596		<20	0.01	<10	<10	46	<10	174
CC62597		<20	<0.01	<10	<10	10	<10	72
CC62598		<20	0.01	<10	<10	14	<10	82
CC62599		<20	0.02	<10	<10	22	<10	175
CC62600		<20	0.01	<10	<10	25	<10	304
CC62601		<20	0.02	<10	<10	44	<10	165
CC62602		<20	<0.01	<10	<10	5	<10	50
CC62603		<20	0.02	<10	<10	30	<10	213
CC62604		<20	<0.01	<10	<10	9	<10	57
CC62605		<20	0.01	<10	<10	45	<10	126
CC62606		<20	0.01	<10	<10	40	<10	129
CC62607		<20	0.01	<10	<10	16	<10	104
CC62608		<20	0.01	<10	<10	27	<10	134
CC62609		<20	0.01	<10	<10	23	<10	58
CC62610		<20	0.01	<10	<10	26	<10	102
CC62611		<20	0.02	<10	<10	40	<10	200
CC62612		<20	0.01	<10	<10	29	<10	110
CC62613		<20	0.02	<10	<10	43	<10	131
CC62614		<20	0.02	<10	<10	34	<10	63
CC62615		<20	0.02	<10	<10	45	<10	98
CC62616		<20	0.01	<10	<10	32	<10	112
CC62617		<20	0.01	<10	<10	41	<10	128
CC62618		<20	<0.01	<10	<10	25	<10	88
CC62619		<20	<0.01	<10	<10	34	<10	152
CC62620		<20	0.02	<10	<10	51	<10	223

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62621		0.19	0.024	1.1	0.52	83	<10	80	<0.5	15	12.55	1.1	5	12	13	1.83
CC62622		0.15	0.002	<0.2	1.03	8	<10	130	<0.5	<2	7.21	0.9	7	14	10	1.55
CC62623		0.18	0.001	<0.2	0.08	<2	<10	60	<0.5	<2	17.2	0.5	1	1	1	0.15
CC62624		0.18	0.007	0.3	0.24	10	<10	120	<0.5	<2	14.25	0.9	3	4	4	0.60
CC62625		0.18	0.020	0.8	0.76	85	<10	160	<0.5	14	8.78	2.0	6	12	24	2.03
CC62626		0.23	0.006	0.2	0.16	85	<10	150	<0.5	9	16.7	1.3	5	4	11	1.32
CC62627		0.17	0.006	3.5	0.24	35	<10	280	<0.5	28	13.15	3.1	4	4	15	1.26
CC62628		0.12	0.025	0.6	0.50	66	<10	220	<0.5	<2	8.09	1.7	5	7	13	1.69
CC62629		0.14	0.002	0.2	0.31	5	<10	40	<0.5	<2	12.45	1.0	2	3	4	0.51
CC62630		0.16	0.001	0.2	0.19	6	<10	80	<0.5	<2	15.4	1.3	2	2	3	0.36
CC62631		0.25	0.007	0.4	0.13	50	<10	80	<0.5	<2	16.1	1.3	3	2	4	0.73
CC62632		0.25	0.010	<0.2	0.11	16	<10	80	<0.5	<2	15.3	0.8	2	1	3	0.52
CC62633		0.23	0.009	0.3	0.15	25	<10	90	<0.5	<2	12.65	1.0	6	2	7	1.21
CC62634		0.15	0.004	0.7	0.43	68	<10	200	0.5	3	8.64	3.3	13	14	32	2.31
CC62635		0.17	0.006	0.5	0.19	32	<10	100	<0.5	<2	11.30	2.0	6	4	11	1.29
CC62636		0.16	0.004	<0.2	0.22	7	<10	90	<0.5	<2	13.55	1.0	4	2	5	0.69
CC62637		0.19	0.002	0.3	0.18	5	<10	90	<0.5	<2	15.7	1.0	4	2	3	0.51
CC62638		0.22	0.002	<0.2	0.09	11	<10	100	<0.5	<2	16.9	0.9	2	1	1	0.32
CC62639		0.20	0.001	<0.2	0.13	6	<10	100	<0.5	<2	16.4	0.9	2	2	2	0.28
CC62640		0.19	0.002	<0.2	0.13	4	<10	100	<0.5	<2	10.70	1.1	2	2	3	0.36
CC62641		0.22	0.001	<0.2	0.12	13	<10	90	<0.5	<2	12.85	1.6	2	2	3	0.52
CC62642		0.21	0.001	0.2	0.06	6	<10	40	<0.5	<2	13.15	1.4	1	1	1	0.24
CC62643		0.13	0.004	<0.2	0.45	7	<10	80	<0.5	<2	8.63	1.0	5	6	9	0.89
CC62644		0.13	0.002	<0.2	0.23	5	<10	60	<0.5	<2	10.30	0.8	3	3	4	0.58
CC62645		0.20	0.002	0.3	0.13	22	<10	160	<0.5	<2	16.1	3.1	3	2	3	0.85
CC62646		0.07	0.002	<0.2	1.04	13	<10	240	0.5	<2	2.21	0.6	11	19	21	2.74
CC62647		0.13	0.002	0.2	1.16	11	<10	330	<0.5	<2	3.34	0.8	11	33	21	2.76

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Project: RAU

Finalized Date: 14-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62621		<10	<1	0.03	10	8.54	870	3	0.02	21	980	125	0.03	<2	1	58
CC62622		<10	<1	0.04	10	4.84	707	<1	0.02	12	820	26	0.05	<2	1	23
CC62623		<10	<1	<0.01	<10	10.90	237	<1	0.01	1	380	11	<0.01	<2	<1	31
CC62624		<10	<1	0.04	10	9.70	483	<1	0.02	5	410	49	0.01	<2	<1	40
CC62625		<10	1	0.05	10	5.53	1215	1	0.02	17	980	218	0.06	6	1	26
CC62626		<10	<1	0.03	10	10.45	868	<1	0.02	12	390	173	<0.01	2	1	41
CC62627		<10	<1	0.02	10	8.96	3680	<1	0.02	6	490	483	0.02	<2	<1	41
CC62628		<10	<1	0.06	10	5.20	1385	<1	0.02	11	890	154	0.07	<2	1	35
CC62629		<10	<1	0.02	10	8.46	375	<1	0.02	3	470	32	0.02	<2	<1	28
CC62630		<10	<1	0.01	10	9.63	450	<1	0.02	3	590	44	0.02	<2	<1	28
CC62631		<10	<1	0.01	10	10.20	498	<1	0.01	5	330	98	<0.01	2	<1	29
CC62632		<10	<1	0.01	10	9.64	460	<1	0.01	4	340	32	<0.01	<2	<1	33
CC62633		<10	<1	0.03	10	8.63	641	<1	0.01	9	580	54	<0.01	2	<1	42
CC62634		<10	<1	0.07	10	5.53	1500	<1	0.01	36	1120	333	0.03	6	2	27
CC62635		<10	<1	0.02	10	7.56	996	<1	0.01	12	690	111	0.01	<2	1	28
CC62636		<10	1	0.02	10	9.10	794	<1	0.01	5	660	30	0.02	<2	<1	34
CC62637		<10	<1	0.01	10	9.89	630	<1	0.01	5	580	62	0.02	2	<1	31
CC62638		<10	<1	0.01	<10	10.70	442	<1	0.01	5	380	51	<0.01	2	<1	31
CC62639		<10	<1	0.01	10	10.25	407	<1	0.02	3	780	76	0.02	<2	<1	29
CC62640		<10	<1	0.01	<10	7.20	553	<1	0.01	6	550	73	0.01	2	<1	20
CC62641		<10	<1	0.01	<10	8.83	689	<1	0.01	2	340	33	<0.01	<2	<1	27
CC62642		<10	<1	0.01	<10	9.02	272	<1	0.01	<1	290	72	<0.01	<2	<1	24
CC62643		<10	<1	0.03	10	5.76	449	<1	0.02	8	700	42	0.03	<2	1	22
CC62644		<10	<1	0.02	<10	6.88	506	<1	0.01	5	750	29	0.04	<2	<1	20
CC62645		<10	<1	0.01	10	10.15	2310	<1	0.02	4	450	57	0.01	3	<1	32
CC62646		<10	<1	0.13	10	0.71	770	1	0.02	29	830	31	0.08	<2	3	72
CC62647		<10	<1	0.09	10	2.01	572	1	0.01	31	890	26	0.06	<2	3	32

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

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Account: RCM

CERTIFICATE OF ANALYSIS VO09087129

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC62621		<20	0.01	<10	<10	39	<10	204
CC62622		<20	0.02	<10	<10	36	<10	127
CC62623		<20	<0.01	<10	<10	6	<10	38
CC62624		<20	0.01	<10	<10	16	<10	128
CC62625		<20	0.01	<10	<10	34	<10	504
CC62626		<20	<0.01	<10	<10	13	<10	345
CC62627		<20	<0.01	<10	<10	19	<10	518
CC62628		<20	0.01	<10	<10	25	<10	346
CC62629		<20	0.01	<10	<10	12	<10	112
CC62630		<20	<0.01	<10	<10	17	<10	105
CC62631		<20	<0.01	<10	<10	18	<10	245
CC62632		<20	<0.01	<10	<10	15	<10	123
CC62633		<20	<0.01	<10	<10	26	<10	192
CC62634		<20	0.01	<10	<10	30	<10	1110
CC62635		<20	<0.01	<10	<10	20	<10	441
CC62636		<20	0.01	<10	<10	14	<10	146
CC62637		<20	<0.01	<10	<10	19	<10	217
CC62638		<20	<0.01	<10	<10	17	<10	156
CC62639		<20	<0.01	<10	<10	21	<10	127
CC62640		<20	<0.01	<10	<10	15	<10	186
CC62641		<20	0.01	<10	<10	8	<10	164
CC62642		<20	<0.01	<10	<10	6	<10	119
CC62643		<20	0.01	<10	<10	16	<10	156
CC62644		<20	<0.01	<10	<10	10	<10	134
CC62645		<20	<0.01	<10	<10	17	<10	372
CC62646		<20	0.01	<10	<10	30	<10	154
CC62647		<20	0.02	<10	<10	34	<10	167

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Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE VO09087128

Project: RAU

P.O. No.:

This report is for 169 Soil samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62651		0.14	0.006	0.5	0.64	32	<10	90	<0.5	3	9.93	0.6	6	14	16	1.82
CC62652		0.13	0.004	0.4	0.37	50	<10	100	<0.5	<2	11.30	0.6	6	9	13	1.51
CC62653		0.11	0.001	0.3	0.38	7	<10	80	<0.5	<2	13.85	<0.5	4	7	8	0.78
CC62654		0.12	<0.001	0.2	0.18	2	<10	60	<0.5	<2	16.9	<0.5	2	2	4	0.26
CC62655		0.11	<0.001	0.4	0.20	5	<10	170	<0.5	<2	13.10	<0.5	3	3	7	0.45
CC62656		0.10	<0.001	0.3	0.68	9	<10	100	<0.5	<2	7.30	<0.5	6	11	12	1.20
CC62657		0.10	0.005	0.3	1.05	29	<10	140	0.6	2	1.34	0.5	11	21	20	2.55
CC62658		0.08	0.002	0.4	0.33	9	<10	90	<0.5	<2	11.75	0.5	4	7	10	0.70
CC62659		0.08	0.006	0.2	0.64	4	<10	160	<0.5	<2	8.84	0.6	5	9	14	0.99
CC62660		0.20	0.004	0.9	0.47	19	<10	470	<0.5	2	11.65	1.2	6	10	16	1.32
CC62661		0.10	<0.001	0.2	1.59	11	<10	270	0.7	2	2.59	0.7	9	19	17	2.45
CC62662		0.13	0.012	0.8	0.58	18	<10	80	<0.5	<2	8.95	1.2	5	11	23	1.24
CC62663		0.14	0.004	0.2	0.93	13	<10	150	<0.5	<2	7.71	<0.5	7	16	16	1.78
CC62664		0.10	0.002	0.5	1.70	22	<10	550	0.8	2	1.36	0.8	12	28	25	2.98
CC62665		0.10	<0.001	<0.2	1.29	12	<10	180	0.5	<2	1.16	0.5	7	21	14	2.26
CC62666		0.10	0.011	0.4	0.92	60	<10	120	0.5	8	5.92	2.1	6	17	18	2.33
CC62667		0.10	0.006	0.3	0.48	25	<10	90	<0.5	2	10.05	1.8	4	10	12	1.42
CC62668		0.11	0.015	0.9	0.83	60	<10	150	0.5	4	6.07	2.2	7	17	22	2.29
CC62669		0.09	0.007	0.4	0.93	26	<10	160	<0.5	2	4.81	1.7	6	16	15	2.03
CC62670		0.09	0.012	0.6	0.92	38	<10	130	0.5	2	5.12	1.8	8	17	19	2.28
CC62671		0.12	0.036	0.9	0.30	145	<10	70	<0.5	16	14.4	1.4	2	8	16	1.63
CC62672		0.09	0.014	0.5	0.97	58	<10	140	0.5	4	6.32	1.4	8	20	22	2.48
CC62673		0.08	0.015	0.5	1.07	35	<10	160	0.7	<2	3.75	1.0	9	21	21	2.59
CC62674		0.13	0.005	<0.2	0.39	22	<10	80	<0.5	<2	13.85	1.2	3	8	9	1.09
CC62675		0.14	0.003	<0.2	0.15	8	<10	70	<0.5	<2	16.4	<0.5	1	4	4	0.47
CC62676		0.14	0.001	<0.2	0.18	5	<10	70	<0.5	2	16.4	0.6	1	3	4	0.38
CC62677		0.10	0.004	0.2	0.30	22	<10	60	<0.5	2	13.6	1.1	1	4	7	0.84
CC62678		0.17	0.003	0.2	0.15	24	<10	70	<0.5	7	15.9	0.6	5	3	6	0.88
CC62679		0.15	0.003	<0.2	0.15	17	<10	80	<0.5	2	16.5	0.7	2	4	6	0.69
CC62680		0.13	0.015	0.7	0.49	82	<10	280	<0.5	4	9.63	2.1	7	10	14	2.04
CC62681		0.12	0.001	<0.2	0.21	8	<10	30	<0.5	<2	15.5	0.7	1	3	4	0.40
CC62682		0.10	0.001	0.2	0.28	6	<10	40	<0.5	<2	14.6	1.0	1	3	4	0.50
CC62683		0.13	<0.001	<0.2	0.18	12	<10	50	<0.5	<2	16.0	1.6	1	3	3	0.45
CC62684		0.15	0.007	0.3	0.21	17	<10	130	<0.5	2	14.7	1.3	2	4	6	0.73
CC62685		0.12	0.002	0.4	0.13	21	<10	110	<0.5	<2	15.9	2.1	1	2	5	0.67
CC62686		0.13	<0.001	<0.2	0.15	7	<10	40	<0.5	<2	15.9	1.1	<1	2	3	0.37
CC62687		0.12	0.003	<0.2	0.24	12	<10	70	<0.5	<2	10.55	1.1	2	5	6	0.79
CC62688		0.13	<0.001	<0.2	0.09	3	<10	10	<0.5	<2	10.90	<0.5	<1	2	4	0.28
CC62689		0.11	0.001	0.5	0.18	35	<10	130	<0.5	3	9.90	4.3	4	5	23	1.12
CC62690		0.16	0.001	<0.2	0.10	47	<10	100	<0.5	<2	15.6	1.7	<1	2	5	0.66

***** See Appendix Page for comments regarding this certificate *****

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Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62651		<10	<1	0.05	10	6.51	486	1	0.03	17	710	51	0.07	2	2	50
CC62652		<10	<1	0.07	10	7.59	546	1	0.03	10	650	48	0.05	<2	1	49
CC62653		<10	<1	0.03	<10	9.59	326	<1	0.03	6	580	18	0.05	2	1	40
CC62654		<10	1	0.01	<10	10.90	242	<1	0.02	1	520	6	<0.01	<2	<1	40
CC62655		<10	<1	0.01	<10	8.84	305	<1	0.02	3	660	10	0.06	<2	<1	43
CC62656		<10	<1	0.03	10	4.84	764	<1	0.02	9	680	19	0.08	<2	1	26
CC62657		<10	<1	0.07	20	0.64	645	1	0.02	24	840	55	0.10	3	1	14
CC62658		<10	<1	0.02	<10	7.76	661	<1	0.03	5	970	20	0.09	2	<1	42
CC62659		<10	<1	0.03	10	5.52	837	<1	0.03	7	1430	20	0.14	<2	<1	27
CC62660		<10	<1	0.06	10	7.93	969	1	0.03	11	620	156	0.04	3	1	55
CC62661		<10	<1	0.06	10	1.40	986	1	0.02	17	1460	31	0.10	<2	1	16
CC62662		<10	<1	0.03	10	5.98	486	<1	0.02	10	820	219	0.06	9	1	27
CC62663		<10	<1	0.05	10	5.18	439	1	0.02	16	750	23	0.04	2	2	30
CC62664		<10	<1	0.09	20	0.88	907	1	0.02	30	1440	49	0.07	2	2	21
CC62665		10	<1	0.05	10	0.62	692	1	0.01	16	720	29	0.07	<2	1	12
CC62666		<10	<1	0.06	10	3.67	727	1	0.02	19	1070	355	0.06	2	1	27
CC62667		<10	<1	0.05	10	6.38	917	1	0.02	12	1040	131	0.08	<2	1	39
CC62668		<10	<1	0.07	10	3.82	800	1	0.02	24	1050	394	0.06	3	1	27
CC62669		<10	<1	0.03	10	2.52	1250	1	0.02	16	1600	117	0.13	<2	1	20
CC62670		<10	<1	0.07	10	3.01	1225	2	0.02	22	1240	165	0.10	<2	1	25
CC62671		<10	<1	0.03	10	9.30	620	1	0.02	15	640	195	0.03	4	1	58
CC62672		<10	<1	0.06	10	3.95	1050	2	0.02	30	1370	112	0.07	3	2	29
CC62673		<10	<1	0.07	10	2.01	1105	2	0.01	30	1540	110	0.11	3	1	21
CC62674		<10	<1	0.03	10	9.23	828	1	0.02	12	740	80	0.04	<2	1	47
CC62675		<10	<1	0.02	<10	10.70	376	<1	0.02	5	380	37	0.03	<2	<1	49
CC62676		<10	<1	0.01	<10	10.70	374	<1	0.02	3	590	19	0.04	<2	<1	42
CC62677		<10	<1	0.04	<10	8.90	862	<1	0.02	6	500	50	0.05	<2	<1	36
CC62678		<10	<1	0.02	<10	10.40	379	<1	0.02	13	500	65	0.04	<2	<1	36
CC62679		<10	<1	0.02	<10	10.70	672	<1	0.02	7	450	86	0.03	<2	<1	52
CC62680		<10	<1	0.05	10	6.15	1635	1	0.02	18	1030	212	0.07	2	1	41
CC62681		<10	<1	0.01	<10	10.25	347	<1	0.02	3	460	37	0.04	<2	<1	34
CC62682		<10	<1	0.02	<10	9.52	661	<1	0.02	4	730	48	0.05	<2	<1	32
CC62683		<10	<1	0.01	<10	10.55	597	<1	0.02	4	490	54	0.03	<2	<1	31
CC62684		<10	<1	0.02	<10	9.70	609	<1	0.02	11	500	79	0.03	<2	<1	39
CC62685		<10	<1	0.01	<10	10.40	1410	<1	0.02	5	430	93	0.03	<2	<1	36
CC62686		<10	<1	0.01	<10	10.40	554	<1	0.02	2	550	40	0.05	<2	<1	27
CC62687		<10	<1	0.02	<10	6.97	896	<1	0.02	8	610	49	0.03	<2	1	22
CC62688		<10	<1	0.01	<10	7.08	252	<1	0.02	3	460	15	0.04	<2	<1	25
CC62689		<10	<1	0.02	<10	6.49	1470	<1	0.02	15	770	203	0.03	7	1	25
CC62690		<10	<1	0.01	<10	10.25	926	<1	0.02	5	410	69	0.02	<2	<1	31

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62651		<20	0.03	<10	<10	32	<10	162
CC62652		<20	0.01	<10	<10	25	<10	188
CC62653		<20	0.01	<10	<10	18	<10	72
CC62654		<20	<0.01	<10	<10	8	<10	38
CC62655		<20	<0.01	<10	<10	11	<10	64
CC62656		<20	0.01	<10	<10	28	<10	117
CC62657		<20	0.01	<10	<10	51	<10	217
CC62658		<20	0.01	<10	<10	22	<10	117
CC62659		<20	0.01	<10	<10	25	<10	171
CC62660		<20	0.02	<10	<10	26	<10	247
CC62661		<20	0.01	<10	<10	49	<10	144
CC62662		<20	0.01	<10	<10	40	<10	271
CC62663		<20	0.02	<10	<10	42	<10	86
CC62664		<20	0.02	<10	<10	78	<10	164
CC62665		<20	0.02	<10	<10	47	<10	133
CC62666		<20	0.02	<10	<10	47	<10	357
CC62667		<20	0.01	<10	<10	29	<10	374
CC62668		<20	0.01	<10	<10	45	<10	777
CC62669		<20	0.01	<10	<10	43	<10	338
CC62670		<20	0.01	<10	<10	44	<10	433
CC62671		<20	0.01	<10	<10	25	<10	325
CC62672		<20	0.02	<10	<10	56	<10	327
CC62673		<20	0.01	<10	<10	59	<10	322
CC62674		<20	0.01	<10	<10	26	<10	197
CC62675		<20	<0.01	<10	<10	14	<10	90
CC62676		<20	<0.01	<10	<10	10	<10	82
CC62677		<20	0.01	<10	<10	14	<10	200
CC62678		<20	<0.01	<10	<10	11	<10	153
CC62679		<20	0.01	<10	<10	13	<10	186
CC62680		<20	0.01	<10	<10	30	<10	501
CC62681		<20	0.01	<10	<10	9	<10	115
CC62682		<20	0.01	<10	<10	10	<10	151
CC62683		<20	0.01	<10	<10	12	<10	185
CC62684		<20	0.01	<10	<10	35	<10	325
CC62685		<20	<0.01	<10	<10	15	<10	330
CC62686		<20	<0.01	<10	<10	11	<10	125
CC62687		<20	0.01	<10	<10	16	<10	223
CC62688		<20	<0.01	<10	<10	7	<10	52
CC62689		<20	<0.01	<10	<10	18	<10	761
CC62690		<20	<0.01	<10	<10	11	<10	283

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1016-510 W HASTINGS ST
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Project: RAU

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62691		0.11	<0.001	<0.2	0.04	2	<10	10	<0.5	<2	18.1	<0.5	<1	1	1	0.16
CC62692		0.13	0.017	0.2	0.28	31	<10	180	<0.5	2	12.20	0.9	14	4	21	2.43
CC62693		0.12	<0.001	<0.2	0.10	9	<10	40	<0.5	<2	16.9	1.0	<1	1	3	0.29
CC62694		0.12	<0.001	<0.2	0.13	16	<10	90	<0.5	<2	13.25	1.2	1	2	4	0.54
CC62695		0.13	0.001	<0.2	0.21	8	<10	40	<0.5	<2	8.47	0.5	1	3	4	0.54
CC62696		0.17	0.001	<0.2	0.11	24	<10	130	<0.5	<2	14.8	1.9	1	2	4	0.74
CC62697		0.15	<0.001	<0.2	0.19	4	<10	30	<0.5	<2	14.0	0.6	<1	3	3	0.39
CC62698		0.18	<0.001	<0.2	0.11	6	<10	30	<0.5	<2	12.30	<0.5	1	2	4	0.45
CC62699		0.14	0.007	<0.2	0.67	12	<10	110	<0.5	<2	6.24	0.9	8	10	16	1.83
CC62700		0.12	<0.001	<0.2	0.61	5	<10	60	<0.5	<2	5.96	<0.5	4	9	8	1.12
CC62701		0.07	0.003	0.4	1.16	11	<10	220	<0.5	<2	1.66	0.9	7	19	17	2.56
CC62702		0.21	0.007	0.6	0.39	42	<10	150	<0.5	<2	12.25	1.1	3	6	11	1.24
CC62703		0.11	0.018	0.8	0.49	56	<10	190	<0.5	<2	9.95	1.0	4	7	16	1.69
CC62704		0.14	0.022	0.9	0.54	119	<10	270	<0.5	<2	8.70	1.2	5	9	25	2.44
CC62705		0.06	NSS	1.0	0.74	72	<10	290	<0.5	<2	4.11	0.8	8	12	21	3.19
CC62706		0.07	0.021	0.7	1.23	42	<10	200	0.5	<2	2.57	0.9	10	18	14	2.61
CC62707		0.07	NSS	0.2	0.73	16	<10	160	<0.5	<2	0.72	0.5	3	10	6	1.91
CC62708		0.05	0.014	0.5	0.60	30	<10	260	<0.5	<2	3.11	0.7	5	11	20	1.97
CC62709		0.16	NSS	0.4	1.00	30	<10	260	0.5	<2	4.85	0.7	8	27	32	2.48
CC62710		0.19	0.003	0.5	1.04	28	<10	270	0.5	<2	5.44	0.8	8	21	31	2.58
CC62711		0.36	0.003	0.5	0.91	22	<10	210	<0.5	<2	6.15	0.7	7	19	29	2.38
CC62712		0.22	0.006	0.4	1.04	19	<10	180	<0.5	<2	4.96	0.5	10	20	27	2.71
CC62713		0.17	0.005	0.4	1.15	23	<10	300	<0.5	<2	6.80	0.6	7	23	24	2.82
CC62714		0.21	0.007	0.4	1.02	23	<10	490	<0.5	<2	7.05	0.5	7	20	26	2.39
CC62715		0.20	0.002	0.6	1.22	22	<10	620	<0.5	<2	6.12	0.7	10	29	36	3.07
CC62716		0.08	0.001	0.5	0.81	12	<10	500	<0.5	<2	7.61	0.7	7	22	33	3.61
CC62717		0.21	0.007	0.8	1.24	30	<10	370	0.5	<2	7.01	0.6	11	28	37	3.24
CC62718		0.06	0.008	0.8	1.30	17	<10	580	0.5	<2	4.70	0.9	11	32	39	2.99
CC62719		0.14	0.004	0.5	0.88	20	<10	340	<0.5	<2	9.31	0.8	9	22	24	2.49
CC62720		0.07	0.012	0.7	1.49	26	<10	580	0.5	<2	4.19	0.8	13	35	34	3.47
CC62721		0.18	0.013	0.7	1.14	37	<10	400	0.5	<2	7.39	0.6	9	24	26	2.98
CC62722		0.10	0.012	0.6	1.43	32	<10	550	0.5	<2	2.05	0.7	10	29	19	3.26
CC62723		0.11	0.019	0.9	1.32	41	<10	560	0.6	<2	2.01	1.0	9	27	27	3.02
CC62724		0.12	<0.001	0.4	0.72	13	<10	300	<0.5	<2	10.10	0.6	6	17	13	2.24
CC62725		0.10	<0.001	0.3	0.87	12	<10	190	<0.5	<2	3.49	<0.5	12	18	20	3.49
CC62726		0.15	0.004	0.4	1.23	13	<10	430	<0.5	<2	1.79	<0.5	12	28	21	2.81
CC62727		0.11	<0.001	0.3	1.12	16	<10	440	<0.5	<2	1.94	<0.5	12	24	21	3.27
CC62728		0.17	0.002	0.4	1.03	13	<10	280	<0.5	<2	2.03	0.6	10	21	20	2.96
CC62729		0.11	0.003	0.4	1.24	14	<10	290	0.5	<2	1.89	0.6	8	23	22	2.55
CC62730		0.15	0.004	0.7	1.51	20	<10	300	0.6	<2	1.66	1.2	7	28	36	2.68

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Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
CC62691		<10	<1	0.01	<10	12.05	224	<1	0.02	1	260	9	<0.01	<2	<1	32
CC62692		<10	<1	0.05	10	8.09	512	1	0.02	24	1810	62	0.03	<2	1	56
CC62693		<10	<1	0.01	<10	11.30	452	<1	0.02	3	430	34	<0.01	<2	<1	30
CC62694		<10	<1	0.01	<10	8.92	1515	<1	0.02	5	980	35	0.03	<2	<1	26
CC62695		<10	<1	0.02	<10	5.47	489	<1	0.02	6	720	19	0.03	<2	<1	17
CC62696		<10	<1	0.01	<10	9.72	1245	<1	0.02	7	390	49	0.02	<2	<1	30
CC62697		<10	<1	0.02	<10	9.00	290	<1	0.02	4	1210	35	0.03	<2	<1	29
CC62698		<10	<1	0.01	<10	8.28	203	<1	0.02	4	420	18	0.02	<2	<1	24
CC62699		<10	<1	0.06	10	3.98	560	<1	0.02	18	1270	46	0.08	<2	1	24
CC62700		<10	<1	0.03	<10	3.76	444	<1	0.02	8	990	16	0.08	<2	1	15
CC62701		<10	<1	0.06	10	0.45	1240	1	0.02	14	1180	21	0.11	<2	2	22
CC62702		<10	<1	0.02	10	8.02	1040	<1	0.02	7	690	17	0.02	<2	1	32
CC62703		<10	<1	0.03	<10	6.18	985	<1	0.02	9	1040	20	0.06	<2	1	34
CC62704		<10	<1	0.04	10	5.30	2070	1	0.02	11	1220	28	0.07	3	1	31
CC62705		<10	<1	0.10	10	1.63	928	1	0.02	12	1600	18	0.11	5	1	27
CC62706		10	<1	0.04	10	0.90	1045	1	0.01	13	1100	39	0.09	<2	2	19
CC62707		<10	<1	0.05	10	0.25	220	<1	0.01	5	310	20	0.04	<2	1	12
CC62708		<10	<1	0.05	10	0.52	593	1	0.02	10	980	20	0.15	<2	1	23
CC62709		<10	<1	0.09	10	2.67	652	1	0.02	23	1070	23	0.07	<2	2	31
CC62710		<10	<1	0.09	10	3.17	787	1	0.02	25	1000	24	0.06	<2	2	34
CC62711		<10	<1	0.09	10	3.83	526	1	0.02	26	860	24	0.03	<2	3	48
CC62712		<10	<1	0.11	10	3.19	537	1	0.02	24	890	27	0.03	<2	3	40
CC62713		<10	<1	0.25	10	3.88	491	2	0.03	21	950	23	0.06	<2	3	57
CC62714		<10	<1	0.16	10	4.45	421	1	0.02	22	850	26	0.06	<2	2	45
CC62715		<10	<1	0.17	10	3.57	522	1	0.02	30	1140	24	0.08	<2	3	47
CC62716		<10	<1	0.14	10	4.39	634	2	0.03	22	850	17	0.10	2	2	49
CC62717		<10	<1	0.20	10	4.44	506	2	0.02	32	1120	31	0.05	3	4	51
CC62718		<10	<1	0.19	10	2.53	555	1	0.02	33	1190	28	0.10	<2	3	42
CC62719		<10	<1	0.14	10	5.86	871	1	0.02	24	1080	23	0.07	<2	2	51
CC62720		<10	<1	0.19	10	2.49	791	1	0.02	35	1300	32	0.09	<2	4	32
CC62721		<10	<1	0.16	10	4.55	1560	2	0.02	27	1050	33	0.06	<2	3	37
CC62722		<10	<1	0.15	10	0.83	966	2	0.02	25	960	35	0.10	2	3	24
CC62723		<10	<1	0.12	10	0.68	936	2	0.02	31	1130	41	0.10	<2	2	23
CC62724		<10	<1	0.14	10	5.98	455	1	0.02	18	790	11	0.09	<2	2	66
CC62725		<10	<1	0.15	20	0.64	416	1	0.02	27	770	14	0.15	<2	2	92
CC62726		<10	<1	0.15	10	0.74	521	1	0.02	28	880	17	0.10	<2	3	27
CC62727		<10	<1	0.15	10	0.61	598	1	0.02	24	860	20	0.10	<2	2	32
CC62728		<10	<1	0.12	10	0.50	507	1	0.02	25	1010	22	0.11	<2	2	44
CC62729		<10	<1	0.12	10	0.63	341	1	0.02	24	890	24	0.08	<2	2	35
CC62730		10	<1	0.14	10	0.84	245	1	0.02	31	980	28	0.08	2	3	24

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62691		<20	<0.01	<10	<10	3	<10	48
CC62692		<20	<0.01	<10	<10	60	<10	554
CC62693		<20	<0.01	<10	<10	5	<10	169
CC62694		<20	<0.01	<10	<10	10	<10	227
CC62695		<20	0.01	<10	<10	11	<10	143
CC62696		<20	<0.01	<10	<10	9	<10	274
CC62697		<20	0.01	<10	<10	9	<10	99
CC62698		<20	<0.01	<10	<10	6	<10	65
CC62699		<20	0.01	<10	<10	21	<10	210
CC62700		<20	0.01	<10	<10	21	<10	107
CC62701		<20	0.02	<10	<10	36	<10	172
CC62702		<20	0.01	<10	<10	24	<10	268
CC62703		<20	0.01	<10	<10	30	<10	391
CC62704		<20	0.01	<10	<10	37	<10	442
CC62705		<20	0.01	<10	<10	31	<10	383
CC62706		<20	0.01	<10	<10	38	<10	198
CC62707		<20	0.02	<10	<10	34	<10	154
CC62708		<20	0.01	<10	<10	21	<10	193
CC62709		<20	0.02	<10	<10	38	<10	194
CC62710		<20	0.01	<10	<10	35	<10	142
CC62711		<20	0.02	<10	<10	31	<10	129
CC62712		<20	0.02	<10	<10	34	<10	142
CC62713		<20	0.02	<10	<10	38	<10	121
CC62714		<20	0.02	<10	<10	37	<10	156
CC62715		<20	0.02	<10	<10	41	<10	188
CC62716		<20	0.01	<10	10	30	<10	153
CC62717		<20	0.03	<10	<10	43	<10	183
CC62718		<20	0.02	<10	<10	43	<10	230
CC62719		<20	0.01	<10	<10	34	<10	164
CC62720		<20	0.03	<10	<10	55	<10	228
CC62721		<20	0.02	<10	<10	51	<10	159
CC62722		<20	0.02	<10	<10	59	<10	235
CC62723		<20	0.02	<10	<10	65	<10	206
CC62724		<20	0.01	<10	<10	27	<10	161
CC62725		<20	0.01	<10	<10	25	<10	107
CC62726		<20	0.02	<10	<10	43	<10	162
CC62727		<20	0.02	<10	<10	37	<10	162
CC62728		<20	0.01	<10	<10	31	<10	161
CC62729		<20	0.01	<10	<10	35	<10	194
CC62730		<20	0.01	<10	<10	44	<10	268

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Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62731		0.08	0.005	<0.2	1.57	33	<10	200	0.7	<2	2.44	1.0	7	20	13	2.98
CC62732		0.08	0.001	0.4	1.20	26	<10	110	0.6	<2	6.96	0.5	5	16	13	2.11
CC62733		0.10	0.002	0.5	0.45	29	<10	130	<0.5	<2	12.90	0.9	2	6	10	1.13
CC62734		0.13	0.007	0.4	0.46	21	<10	110	<0.5	<2	14.1	<0.5	4	7	7	1.05
CC62735		0.07	0.004	0.5	1.25	16	<10	350	0.5	<2	3.00	0.5	7	23	20	2.77
CC62736		0.10	0.003	0.4	1.25	14	<10	330	<0.5	<2	1.45	<0.5	6	23	10	2.35
CC62737		0.19	0.004	0.2	1.20	19	<10	250	0.5	2	3.64	0.8	11	23	28	2.56
CC62738		0.13	0.003	0.3	1.17	17	<10	190	<0.5	3	2.04	0.7	10	23	23	2.56
CC62739		0.09	0.002	0.3	0.98	15	<10	220	<0.5	<2	4.53	0.7	7	18	17	2.01
CC62740		0.11	0.010	0.3	0.73	16	<10	500	<0.5	3	9.96	1.1	5	11	15	1.32
CC62741		0.06	0.002	0.4	1.17	35	<10	460	0.5	3	2.52	1.1	6	14	10	2.65
CC62742		0.05	0.018	0.4	0.67	30	<10	2530	<0.5	<2	7.33	0.6	7	9	14	2.46
CC62743		0.05	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC62744		0.08	0.002	0.2	1.41	29	<10	320	0.6	2	2.91	1.4	7	18	16	2.98
CC62745		0.15	0.021	0.7	0.47	53	<10	240	<0.5	3	13.15	1.0	7	11	14	1.88
CC62746		0.06	0.001	0.4	0.92	28	<10	220	0.6	<2	3.58	0.9	9	30	22	3.20
CC62747		0.10	0.002	0.3	1.77	31	<10	210	0.6	<2	0.68	0.6	11	32	19	4.20
CC62748		0.09	0.026	0.6	0.39	35	<10	220	<0.5	<2	14.2	0.6	3	10	13	1.47
CC62749		0.07	<0.001	0.4	0.50	17	<10	100	<0.5	<2	11.55	<0.5	3	8	11	0.95
CC62750		0.05	<0.001	0.2	0.37	7	10	210	<0.5	<2	5.66	0.9	2	6	9	0.69
CC62751		0.10	0.001	0.2	0.45	6	<10	360	<0.5	<2	11.80	0.5	2	7	10	0.82
CC62752		0.07	0.001	0.3	1.47	14	<10	250	0.6	<2	1.83	<0.5	7	23	11	2.91
CC62753		0.07	<0.001	0.2	0.59	3	<10	170	<0.5	<2	10.55	<0.5	4	8	10	0.91
CC62754		0.07	0.003	0.5	1.03	19	<10	420	0.5	<2	5.58	0.7	13	23	28	4.31
CC62755		0.08	0.006	0.6	0.94	21	<10	360	<0.5	<2	4.19	0.7	11	21	25	3.26
CC62756		0.08	0.001	0.3	0.91	12	<10	290	0.5	<2	2.60	<0.5	16	16	33	4.65
CC62757		0.05	<0.001	0.2	0.42	6	<10	180	<0.5	<2	9.98	<0.5	4	9	9	1.64
CC62758		0.19	0.002	0.3	0.88	16	<10	210	<0.5	<2	7.72	0.7	7	17	16	2.10
CC62759		0.08	0.005	0.6	0.96	20	<10	460	<0.5	<2	2.41	0.8	10	21	28	2.97
CC62760		0.11	<0.001	<0.2	2.22	14	<10	220	0.8	<2	0.87	0.7	10	39	20	4.08
CC62761		0.11	0.002	0.3	1.32	15	<10	500	0.5	<2	2.50	0.5	8	25	27	2.68
CC62762		0.21	0.003	0.5	1.21	15	<10	210	0.5	<2	5.78	0.7	10	22	30	2.79
CC62763		0.16	0.001	0.4	1.51	12	<10	370	0.6	<2	1.43	0.5	9	26	19	3.08
CC62764		0.20	0.002	0.7	1.34	27	<10	250	0.6	<2	2.90	0.5	10	24	37	3.06
CC62765		0.17	0.002	0.4	1.33	21	<10	320	0.6	<2	3.99	0.8	10	24	34	3.08
CC62766		0.27	0.002	0.5	1.32	18	<10	250	0.6	<2	3.76	0.7	9	24	30	2.81
CC62767		0.09	0.004	0.3	1.14	27	<10	440	0.5	<2	3.33	0.5	6	21	25	2.31
CC62768		0.31	0.009	0.3	0.94	21	<10	220	<0.5	<2	8.50	0.5	6	16	18	1.96
CC62769		0.10	0.005	0.3	1.86	29	<10	300	0.7	<2	3.83	1.1	8	29	18	3.01
CC62770		0.08	0.005	<0.2	1.38	21	<10	230	0.5	<2	4.87	0.6	5	20	13	2.57

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Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
Sample Description LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62731	<10	<1	0.07	10	1.37	1610	1	0.02	14	690	26	0.08	3	2	14
CC62732	<10	<1	0.08	10	4.40	744	1	0.02	11	870	18	0.08	2	1	22
CC62733	<10	<1	0.04	<10	8.33	896	1	0.02	4	920	11	0.07	<2	1	41
CC62734	<10	<1	0.06	10	9.16	357	<1	0.02	4	650	13	0.03	<2	1	38
CC62735	<10	<1	0.14	10	1.38	685	1	0.03	20	1050	28	0.09	<2	2	39
CC62736	<10	<1	0.12	10	0.64	448	1	0.02	16	1070	27	0.08	<2	2	33
CC62737	<10	<1	0.13	20	2.35	613	2	0.02	27	790	29	<0.01	4	4	37
CC62738	<10	<1	0.11	20	1.40	376	2	0.03	23	750	26	<0.01	3	3	30
CC62739	<10	<1	0.09	10	2.65	543	1	0.02	15	860	22	0.04	<2	2	30
CC62740	<10	<1	0.10	10	6.62	300	1	0.02	13	560	22	0.02	3	1	33
CC62741	<10	<1	0.16	10	1.15	468	2	0.01	11	580	36	0.04	3	2	18
CC62742	<10	<1	0.21	10	4.45	789	1	0.02	12	740	21	0.11	<2	1	39
CC62743	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC62744	<10	<1	0.22	20	1.57	661	2	0.01	16	470	26	0.06	3	2	15
CC62745	<10	<1	0.06	10	8.77	1575	2	0.02	20	610	54	0.01	4	1	74
CC62746	<10	<1	0.08	20	1.66	1545	4	0.02	29	1060	24	0.11	<2	2	24
CC62747	<10	<1	0.12	10	0.57	493	4	0.01	32	510	35	0.05	<2	3	15
CC62748	<10	<1	0.06	10	8.57	930	3	0.02	17	450	20	0.04	2	1	66
CC62749	<10	<1	0.04	10	7.29	637	1	0.11	8	660	11	0.16	<2	1	45
CC62750	<10	<1	0.03	<10	2.11	484	1	0.04	4	690	10	0.16	<2	1	22
CC62751	<10	<1	0.04	<10	7.42	467	<1	0.10	3	1100	12	0.14	<2	1	71
CC62752	10	<1	0.10	10	0.83	390	1	0.02	16	750	22	0.08	2	2	21
CC62753	<10	<1	0.05	10	6.71	652	<1	0.24	6	1610	8	0.26	<2	1	56
CC62754	<10	<1	0.30	20	2.84	564	1	0.02	36	1270	14	0.12	<2	3	68
CC62755	<10	<1	0.18	10	2.05	608	1	0.02	27	1070	31	0.12	<2	3	35
CC62756	<10	<1	0.32	20	0.81	555	1	0.02	42	1340	14	0.10	<2	3	48
CC62757	<10	<1	0.12	10	6.01	548	1	0.04	9	730	8	0.14	<2	1	48
CC62758	<10	<1	0.13	10	4.98	367	1	0.03	20	840	21	0.03	<2	2	55
CC62759	<10	<1	0.16	20	0.70	544	1	0.02	25	990	24	0.12	<2	3	35
CC62760	<10	<1	0.11	20	0.79	397	1	0.02	32	290	28	0.03	<2	4	14
CC62761	<10	<1	0.13	10	1.09	585	1	0.03	25	950	25	0.07	<2	3	38
CC62762	<10	<1	0.19	10	3.07	681	1	0.02	27	800	34	0.02	<2	3	64
CC62763	<10	<1	0.13	10	0.88	476	1	0.02	25	510	32	0.03	<2	3	23
CC62764	<10	<1	0.16	20	1.93	725	1	0.02	36	810	52	0.02	<2	4	33
CC62765	<10	<1	0.18	20	2.53	706	1	0.02	29	820	39	0.03	<2	4	38
CC62766	<10	<1	0.15	10	2.45	648	1	0.02	27	890	33	0.02	<2	4	37
CC62767	<10	<1	0.11	10	1.24	574	1	0.02	21	1050	23	0.11	<2	2	32
CC62768	<10	<1	0.11	10	5.59	453	1	0.02	18	790	21	0.02	<2	2	41
CC62769	<10	<1	0.12	10	2.41	607	1	0.02	24	550	31	0.04	<2	3	17
CC62770	<10	<1	0.10	10	2.66	440	1	0.03	15	600	23	0.06	<2	2	21

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Project: RAU

Finalized Date: 14-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62731		<20	0.02	<10	<10	50	<10	310
CC62732		<20	0.01	<10	<10	38	<10	154
CC62733		<20	0.01	<10	<10	17	<10	198
CC62734		<20	0.01	<10	<10	17	<10	104
CC62735		<20	0.02	<10	<10	37	<10	174
CC62736		<20	0.02	<10	<10	39	<10	141
CC62737		<20	0.04	<10	<10	41	<10	146
CC62738		<20	0.04	<10	<10	42	<10	131
CC62739		<20	0.02	<10	<10	34	<10	119
CC62740		<20	0.01	<10	<10	27	<10	130
CC62741		<20	0.01	<10	<10	35	<10	234
CC62742		<20	0.01	<10	<10	23	<10	100
CC62743		NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC62744		<20	0.01	<10	<10	42	<10	230
CC62745		<20	0.01	<10	<10	41	<10	232
CC62746		<20	0.01	<10	<10	50	<10	246
CC62747		<20	0.03	<10	<10	71	<10	274
CC62748		<20	0.01	<10	<10	36	<10	127
CC62749		<20	0.01	<10	10	55	<10	109
CC62750		<20	0.01	<10	<10	19	<10	97
CC62751		<20	0.01	<10	10	15	<10	127
CC62752		<20	0.01	<10	<10	54	<10	160
CC62753		<20	0.01	<10	10	21	<10	121
CC62754		<20	0.01	<10	<10	35	<10	157
CC62755		<20	0.02	<10	<10	31	<10	170
CC62756		<20	0.01	<10	<10	22	<10	130
CC62757		<20	0.01	<10	<10	14	<10	102
CC62758		<20	0.01	<10	<10	27	<10	140
CC62759		<20	0.02	<10	<10	30	<10	210
CC62760		<20	0.02	<10	<10	70	<10	115
CC62761		<20	0.02	<10	<10	42	<10	126
CC62762		<20	0.02	<10	<10	39	<10	181
CC62763		<20	0.02	<10	<10	49	<10	137
CC62764		<20	0.03	<10	<10	43	<10	184
CC62765		<20	0.02	<10	<10	42	<10	177
CC62766		<20	0.02	<10	<10	41	<10	167
CC62767		<20	0.02	<10	<10	38	<10	177
CC62768		<20	0.02	<10	<10	34	<10	141
CC62769		<20	0.02	<10	<10	62	<10	191
CC62770		<20	0.02	<10	<10	47	<10	157

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CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62771		0.08	0.005	0.4	0.95	17	<10	170	<0.5	<2	7.48	1.2	5	14	12	2.07
CC62772		0.08	0.003	0.4	1.66	38	<10	280	0.6	<2	1.44	1.2	8	27	18	3.14
CC62773		0.10	0.013	0.4	1.02	29	<10	340	<0.5	<2	5.97	0.7	5	17	22	2.11
CC62774		0.10	0.085	0.3	0.72	33	<10	210	<0.5	<2	5.16	0.8	6	12	18	2.17
CC62775		0.09	0.004	0.3	1.41	33	<10	270	0.6	4	4.89	0.8	7	24	15	2.72
CC62776		0.13	0.001	0.2	2.13	24	<10	280	0.8	<2	0.99	1.1	10	35	13	3.34
CC62777		0.12	<0.001	0.3	2.15	19	<10	240	0.7	<2	0.71	<0.5	8	36	11	3.29
CC62778		0.15	0.003	0.2	1.98	28	<10	270	0.7	2	1.65	<0.5	8	31	17	3.45
CC62779		0.12	0.009	0.4	1.20	37	<10	220	0.5	3	6.94	0.5	6	20	20	2.46
CC62780		0.17	0.013	0.5	1.72	54	<10	280	0.6	3	0.64	0.6	12	37	37	4.45
CC62781		0.10	0.013	0.7	1.36	52	<10	340	0.6	3	1.45	0.9	9	26	38	3.33
CC62782		0.15	0.003	0.3	1.79	20	<10	390	0.7	<2	0.61	<0.5	10	30	19	3.35
CC62783		0.09	0.003	<0.2	1.28	17	<10	250	0.5	<2	2.39	2.5	9	20	18	3.00
CC62784		0.08	0.002	<0.2	0.99	10	<10	260	<0.5	<2	6.72	1.9	6	16	13	1.82
CC62785		0.05	0.003	0.2	1.22	12	<10	510	<0.5	<2	2.39	0.7	13	31	29	3.30
CC62786		0.13	0.002	0.4	1.07	18	<10	310	0.5	<2	2.70	0.6	17	24	25	4.79
CC62787		0.10	0.005	0.4	1.14	21	<10	240	0.5	<2	1.99	0.8	10	19	14	3.54
CC62788		Not Recvd														
CC62789		Not Recvd														
CC62790		Not Recvd														
CC62791		0.10	0.002	<0.2	0.51	22	<10	150	<0.5	<2	11.05	<0.5	3	9	8	1.72
CC62792		0.10	<0.001	<0.2	0.89	9	<10	270	<0.5	<2	6.03	<0.5	11	13	22	3.36
CC62793		0.18	<0.001	<0.2	0.73	16	<10	240	<0.5	<2	6.55	<0.5	14	13	22	3.74
CC62794		0.17	<0.001	0.2	0.58	18	<10	250	<0.5	<2	13.25	<0.5	17	9	23	4.35
CC62795		0.14	<0.001	<0.2	0.81	17	<10	240	<0.5	<2	5.14	<0.5	19	14	23	4.63
CC62796		0.08	0.001	0.5	0.94	36	<10	620	0.6	<2	3.63	0.9	10	32	42	3.22
CC62797		0.13	0.001	<0.2	1.73	18	<10	340	0.8	<2	2.28	0.6	9	28	15	3.00
CC62798		0.21	0.009	0.4	0.66	83	<10	240	<0.5	2	10.20	0.8	6	12	13	2.54
CC62799		0.13	0.003	0.2	1.35	15	<10	290	0.6	<2	3.37	0.7	7	23	20	2.89
CC62800		0.10	0.002	<0.2	1.42	26	<10	290	0.5	<2	1.39	0.7	8	26	16	3.22
CC62801		0.14	0.001	<0.2	2.25	18	<10	230	0.7	<2	0.72	0.9	9	34	14	3.55
CC62802		0.15	0.002	<0.2	1.90	18	<10	270	0.7	<2	0.73	0.5	10	35	15	3.32
CC62803		0.12	<0.001	0.2	1.73	13	<10	280	0.6	<2	1.23	1.0	8	29	16	3.07
CC62804		0.13	0.001	0.3	1.38	19	<10	420	0.6	<2	4.91	0.7	9	27	23	3.03
CC62805		0.15	<0.001	<0.2	2.00	17	<10	350	0.7	<2	0.79	0.8	10	35	13	3.23
CC62806		0.17	0.001	0.3	1.99	15	<10	610	0.7	<2	0.87	<0.5	10	31	18	3.06
CC62807		0.15	<0.001	<0.2	2.20	16	<10	400	0.8	<2	0.70	<0.5	8	35	11	3.37
CC62808		0.19	0.003	0.3	1.64	18	<10	330	0.6	<2	2.95	<0.5	8	30	14	2.90
CC62809		0.14	0.002	<0.2	2.01	19	<10	230	0.7	<2	0.81	0.8	9	30	14	3.07
CC62810		0.20	0.003	0.2	0.96	24	<10	210	<0.5	<2	9.51	0.5	6	17	19	2.06

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62771		<10	<1	0.08	10	4.48	665	1	0.02	11	710	18	0.07	<2	1	24
CC62772		<10	<1	0.12	10	0.74	792	2	0.02	24	500	29	0.04	<2	3	18
CC62773		<10	<1	0.14	10	3.76	468	1	0.02	22	800	26	0.03	2	2	38
CC62774		<10	<1	0.18	10	2.51	657	1	0.02	16	790	25	0.10	2	1	33
CC62775		<10	<1	0.09	10	3.11	1040	1	0.02	22	590	23	0.05	2	2	22
CC62776		10	<1	0.08	10	0.78	1055	2	0.02	25	510	24	0.03	2	3	14
CC62777		10	<1	0.07	10	0.59	467	2	0.02	24	600	21	0.03	<2	3	16
CC62778		10	<1	0.09	20	1.16	435	2	0.02	26	560	26	0.02	2	4	18
CC62779		<10	<1	0.08	10	4.41	701	1	0.02	21	970	24	0.03	2	2	41
CC62780		10	<1	0.10	20	0.76	763	2	0.01	40	670	32	0.03	5	4	13
CC62781		<10	<1	0.09	10	0.59	903	1	0.02	27	1030	24	0.08	4	2	21
CC62782		10	<1	0.08	10	0.60	680	1	0.02	26	710	21	0.03	<2	3	15
CC62783		<10	<1	0.10	10	0.73	1020	1	0.01	16	1030	22	0.08	<2	2	23
CC62784		<10	<1	0.07	10	3.72	646	<1	0.02	13	1250	35	0.12	<2	1	31
CC62785		<10	<1	0.13	10	0.89	756	1	0.02	38	1030	20	0.12	2	3	24
CC62786		<10	<1	0.23	20	1.20	1260	2	0.02	39	1320	27	0.08	<2	4	30
CC62787		<10	<1	0.15	20	0.58	896	1	0.02	24	780	29	0.08	<2	2	22
CC62788																
CC62789																
CC62790																
CC62791		<10	<1	0.08	10	6.83	702	1	0.03	11	570	14	0.07	<2	1	73
CC62792		<10	<1	0.22	20	1.63	632	1	0.02	35	990	12	0.10	<2	2	192
CC62793		<10	<1	0.21	20	0.99	438	<1	0.02	39	1230	10	0.10	<2	2	222
CC62794		<10	<1	0.25	20	1.35	444	<1	0.02	46	1170	9	0.11	<2	3	436
CC62795		<10	<1	0.25	20	0.85	633	1	0.02	46	1190	13	0.15	<2	3	142
CC62796		<10	<1	0.15	10	0.56	502	11	0.03	109	4430	17	0.12	2	2	44
CC62797		10	<1	0.08	10	1.21	625	1	0.02	23	720	23	0.04	<2	3	21
CC62798		<10	<1	0.08	10	6.62	1090	1	0.02	31	700	27	0.04	2	1	50
CC62799		<10	<1	0.11	10	1.65	547	1	0.02	24	960	25	0.06	<2	2	29
CC62800		<10	<1	0.11	10	0.72	635	2	0.02	26	540	29	0.04	<2	2	20
CC62801		10	<1	0.08	10	0.60	674	1	0.02	23	360	28	0.02	2	4	15
CC62802		10	<1	0.09	10	0.69	451	1	0.02	28	510	23	0.03	<2	4	16
CC62803		10	<1	0.09	10	0.70	740	1	0.02	22	720	28	0.04	<2	3	17
CC62804		<10	<1	0.11	10	3.06	706	1	0.02	26	700	21	0.04	2	3	29
CC62805		10	<1	0.07	10	0.57	682	2	0.02	23	700	26	0.04	<2	3	13
CC62806		10	<1	0.07	10	0.56	1005	1	0.02	23	740	18	0.03	<2	3	19
CC62807		10	<1	0.08	10	0.57	502	1	0.02	23	400	26	0.03	<2	4	14
CC62808		<10	<1	0.09	10	1.90	473	1	0.02	24	650	21	0.03	<2	3	24
CC62809		10	<1	0.07	10	0.69	871	1	0.02	23	460	22	0.03	<2	3	13
CC62810		<10	<1	0.13	10	6.23	499	1	0.02	24	770	23	0.02	<2	2	56

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

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62771		<20	0.02	<10	<10	36	<10	152
CC62772		<20	0.02	<10	<10	62	<10	208
CC62773		<20	0.02	<10	<10	37	<10	173
CC62774		<20	0.01	<10	<10	28	<10	125
CC62775		<20	0.02	<10	<10	61	<10	152
CC62776		<20	0.03	<10	<10	80	<10	158
CC62777		<20	0.03	<10	<10	82	<10	129
CC62778		<20	0.03	<10	<10	65	<10	118
CC62779		<20	0.02	<10	<10	48	<10	135
CC62780		<20	0.03	<10	<10	68	<10	197
CC62781		<20	0.02	<10	<10	47	<10	149
CC62782		<20	0.02	<10	<10	57	<10	99
CC62783		<20	0.02	<10	<10	44	<10	215
CC62784		<20	0.01	<10	<10	33	<10	406
CC62785		<20	0.03	<10	<10	39	<10	164
CC62786		<20	0.02	<10	<10	31	<10	165
CC62787		<20	0.01	<10	<10	31	<10	210
CC62788								
CC62789								
CC62790								
CC62791		<20	0.01	<10	<10	20	<10	130
CC62792		<20	0.01	<10	<10	22	<10	89
CC62793		<20	0.01	<10	<10	17	<10	101
CC62794		<20	0.01	<10	<10	14	<10	100
CC62795		<20	0.01	<10	<10	20	<10	124
CC62796		<20	0.01	<10	10	101	<10	194
CC62797		<20	0.02	<10	<10	57	<10	120
CC62798		<20	0.01	<10	<10	31	<10	201
CC62799		<20	0.02	<10	<10	39	<10	124
CC62800		<20	0.02	<10	<10	56	<10	161
CC62801		<20	0.03	<10	<10	73	<10	148
CC62802		<20	0.03	<10	<10	70	<10	109
CC62803		<20	0.02	<10	<10	57	<10	101
CC62804		<20	0.02	<10	<10	61	<10	141
CC62805		<20	0.02	<10	<10	90	<10	114
CC62806		<20	0.03	<10	<10	64	<10	73
CC62807		<20	0.03	<10	<10	84	<10	120
CC62808		<20	0.02	<10	<10	60	<10	100
CC62809		<20	0.03	<10	<10	67	<10	201
CC62810		<20	0.01	<10	<10	35	<10	116

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 14-SEP-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62811		0.19	0.005	<0.2	1.25	25	<10	260	0.5	<2	6.45	0.8	7	20	19	2.33
CC62812		0.12	0.001	0.2	1.67	23	<10	290	0.5	<2	1.35	0.6	6	28	12	3.07
CC62813		0.17	0.002	0.2	0.79	23	<10	150	<0.5	<2	9.29	0.6	4	14	13	1.90
CC62814		0.17	0.002	<0.2	0.70	32	<10	170	<0.5	2	8.72	0.8	4	13	16	2.01
CC62815		0.14	0.002	0.2	0.66	42	<10	160	<0.5	4	8.84	0.6	3	13	15	2.11
CC62816		0.11	0.011	0.3	1.07	20	<10	290	0.5	2	5.08	0.9	6	18	27	2.29
CC62817		0.29	0.003	0.2	1.05	16	<10	190	<0.5	7	5.45	0.6	7	19	26	2.20
CC62818		0.12	0.002	0.4	1.03	25	<10	350	0.5	<2	4.61	0.9	5	21	24	2.48
CC62819		0.18	0.002	0.2	0.87	14	<10	170	<0.5	<2	5.02	0.6	5	16	14	1.81

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Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62811		<10	<1	0.11	10	4.23	586	1	0.02	23	790	23	0.03	<2	2	33
CC62812		<10	<1	0.10	10	0.74	358	1	0.02	22	540	27	0.05	<2	3	15
CC62813		<10	<1	0.10	10	6.09	432	1	0.02	16	760	21	0.03	<2	2	41
CC62814		<10	<1	0.10	10	5.46	718	1	0.02	14	720	25	0.04	<2	1	45
CC62815		<10	<1	0.11	10	5.70	691	1	0.02	14	730	28	0.04	<2	1	36
CC62816		<10	<1	0.12	10	2.51	517	1	0.02	20	970	22	0.10	<2	1	33
CC62817		<10	<1	0.12	10	3.58	484	1	0.02	24	790	18	0.01	2	3	34
CC62818		<10	<1	0.12	10	2.17	860	1	0.03	18	1000	22	0.11	<2	2	33
CC62819		<10	<1	0.07	10	2.92	427	<1	0.02	16	870	20	0.06	<2	2	26

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Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC62811		<20	0.02	<10	<10	43	<10	139
CC62812		<20	0.02	<10	<10	61	<10	174
CC62813		<20	0.01	<10	<10	32	<10	117
CC62814		<20	0.01	<10	<10	26	<10	145
CC62815		<20	0.01	<10	<10	26	<10	172
CC62816		<20	0.01	<10	<10	33	<10	147
CC62817		<20	0.04	<10	<10	37	<10	122
CC62818		<20	0.02	<10	<10	34	<10	163
CC62819		<20	0.02	<10	<10	29	<10	141

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 14-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087128

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE VO09087127

Project: RAU

P.O. No.:

This report is for 108 Soil samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087127

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62960		0.10	0.004	<0.2	1.23	21	<10	480	0.6	<2	2.26	0.6	8	21	30	2.46
CC62961		0.25	0.002	<0.2	0.22	21	<10	80	<0.5	<2	13.25	0.7	4	4	8	0.72
CC62962		0.10	0.002	<0.2	1.04	18	<10	120	<0.5	<2	6.27	0.9	6	16	15	1.94
CC62963		0.11	0.006	<0.2	1.28	22	<10	320	0.6	<2	2.17	0.6	8	21	22	2.41
CC62985		0.12	<0.001	<0.2	1.15	13	<10	230	0.5	<2	0.84	<0.5	7	17	14	2.51
CC62986		0.09	0.003	<0.2	0.67	7	<10	160	<0.5	<2	4.08	1.1	4	9	16	1.09
CC62987		0.14	0.001	<0.2	1.32	13	<10	150	0.6	<2	0.57	0.6	7	24	13	2.74
CC62988		0.09	0.001	<0.2	0.69	8	<10	180	<0.5	<2	3.40	0.5	3	14	12	1.34
CC62989		0.09	0.002	0.2	1.16	16	<10	350	0.5	<2	1.80	0.6	8	21	26	2.43
CC62990		0.18	0.004	<0.2	1.25	12	<10	300	0.6	<2	3.20	0.7	7	24	28	2.64
CC62991		0.13	0.005	<0.2	1.18	16	<10	490	0.5	<2	2.25	0.9	9	24	21	2.60
CC62992		0.15	0.004	0.4	1.05	22	<10	550	0.5	<2	5.17	1.2	10	21	25	2.91
CC62993		0.13	<0.001	0.2	0.80	14	<10	730	<0.5	<2	4.82	0.7	12	15	26	2.76
CC62994		0.17	0.001	<0.2	0.63	19	<10	440	<0.5	<2	8.94	<0.5	12	14	16	3.26
CC62995		0.11	0.001	0.3	1.25	21	<10	310	0.7	<2	2.30	2.5	11	25	18	3.78
CC62996		0.12	0.005	<0.2	0.98	13	<10	1120	<0.5	<2	5.58	0.8	6	16	15	2.21
CC62997		0.14	<0.001	<0.2	1.97	14	<10	340	0.8	<2	0.86	0.7	9	32	11	3.40
CC62998		0.12	0.001	<0.2	1.28	20	<10	170	0.7	<2	4.00	0.9	8	20	16	2.52
CC62999		0.12	<0.001	<0.2	0.48	11	<10	120	<0.5	<2	13.45	1.1	3	9	6	0.86
CC63000		0.18	<0.001	0.2	0.52	14	<10	200	<0.5	<2	13.5	1.2	3	8	8	1.04
CC64001		0.13	0.001	<0.2	0.59	44	<10	40	<0.5	<2	19.9	<0.5	19	18	23	3.26
CC64002		0.13	<0.001	<0.2	0.46	16	<10	30	<0.5	<2	22.0	<0.5	10	7	16	2.61
CC64003		0.15	0.001	<0.2	0.26	13	<10	20	<0.5	<2	>25.0	<0.5	5	7	8	1.44
CC64004		0.14	0.002	<0.2	0.51	15	<10	20	<0.5	<2	18.5	<0.5	12	10	13	2.87
CC64005		0.13	<0.001	0.9	0.57	40	<10	60	0.6	<2	12.35	1.2	19	17	24	5.11
CC64006		0.13	<0.001	<0.2	0.27	18	<10	930	<0.5	<2	20.8	1.9	9	6	18	1.86
CC64007		0.14	<0.001	<0.2	2.42	4	<10	2990	<0.5	<2	12.35	3.8	20	76	36	4.39
CC64008		0.15	0.001	<0.2	2.86	11	<10	80	0.5	<2	9.13	<0.5	22	107	36	4.18
CC64009		0.14	0.002	<0.2	2.45	2	<10	120	<0.5	<2	0.59	<0.5	23	102	35	4.37
CC64010		0.13	0.009	<0.2	1.30	24	<10	200	0.5	<2	7.65	0.6	22	49	34	4.51
CC64011		0.18	0.001	<0.2	0.52	17	<10	60	<0.5	<2	18.0	<0.5	10	11	16	2.76
CC64012		0.18	<0.001	<0.2	0.62	4	<10	30	<0.5	<2	18.3	<0.5	24	9	27	5.25
CC64013		0.20	0.002	<0.2	0.97	14	<10	80	<0.5	<2	16.5	<0.5	10	29	20	2.44
CC64014		0.21	<0.001	<0.2	0.14	40	<10	20	<0.5	<2	>25.0	<0.5	6	4	10	3.19
CC64015		0.18	0.001	<0.2	2.92	6	<10	530	0.6	<2	1.04	<0.5	24	101	38	4.95
CC64016		0.21	0.002	<0.2	1.05	21	<10	860	0.6	<2	5.48	2.0	14	31	26	3.36
CC64017		0.23	0.007	3.0	0.71	63	<10	2130	<0.5	<2	2.13	34.0	13	16	27	4.17
CC64018		0.20	<0.001	<0.2	4.27	<2	<10	220	0.6	<2	2.15	<0.5	33	190	56	5.96
CC64019		0.21	0.002	<0.2	2.66	<2	<10	170	<0.5	<2	0.82	<0.5	23	109	24	4.05
CC64020		0.22	0.001	<0.2	3.63	3	<10	270	0.6	<2	1.09	<0.5	30	146	46	6.04

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 16-SEP-2009
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CERTIFICATE OF ANALYSIS VO09087127

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62960		<10	<1	0.10	10	0.76	516	1	0.02	27	1020	32	0.10	<2	2	29
CC62961		<10	1	0.03	<10	8.79	500	1	0.02	8	380	44	0.01	<2	1	33
CC62962		<10	1	0.07	10	3.76	476	2	0.02	13	980	19	0.07	<2	2	21
CC62963		<10	1	0.09	10	1.25	583	1	0.02	23	1000	26	0.05	<2	2	18
CC62985		<10	1	0.10	10	0.39	634	1	0.01	17	700	28	0.07	3	2	15
CC62986		<10	1	0.03	10	1.06	669	1	0.02	8	1090	17	0.19	2	1	23
CC62987		<10	1	0.07	10	0.44	460	1	0.01	23	600	46	0.05	2	2	11
CC62988		<10	1	0.04	<10	1.35	730	1	0.01	10	700	20	0.11	2	1	17
CC62989		<10	1	0.10	10	0.71	506	1	0.02	26	960	41	0.11	2	2	22
CC62990		<10	1	0.09	10	1.91	488	2	0.02	26	880	32	0.06	2	3	29
CC62991		<10	1	0.08	10	1.23	691	1	0.02	26	870	46	0.07	<2	3	26
CC62992		10	1	0.12	10	2.88	929	2	0.02	30	1050	74	0.08	12	3	44
CC62993		<10	1	0.11	10	1.84	536	1	0.02	35	930	41	0.12	<2	2	62
CC62994		<10	1	0.20	10	5.17	412	1	0.02	33	770	21	0.11	2	3	108
CC62995		<10	1	0.11	20	1.23	1190	3	0.02	31	810	91	0.09	3	3	26
CC62996		<10	1	0.05	10	2.52	556	1	0.02	14	810	43	0.10	2	2	49
CC62997		<10	1	0.07	20	0.72	889	2	0.02	24	320	27	0.04	4	4	14
CC62998		<10	1	0.07	10	2.05	800	6	0.02	22	670	24	0.11	4	2	28
CC62999		<10	1	0.03	10	8.50	618	1	0.02	6	510	44	0.09	<2	1	54
CC63000		<10	1	0.04	10	8.57	982	1	0.02	10	450	45	0.08	<2	1	54
CC64001		<10	1	0.16	10	0.77	142	1	0.01	65	1310	10	<0.01	2	3	233
CC64002		<10	<1	0.21	10	0.80	382	1	0.02	37	910	6	<0.01	<2	3	804
CC64003		<10	<1	0.08	<10	0.96	267	<1	0.01	22	300	4	<0.01	<2	1	204
CC64004		<10	1	0.21	10	1.37	481	1	0.01	34	1070	17	<0.01	3	3	237
CC64005		<10	1	0.24	10	1.40	712	1	0.02	56	1480	82	0.24	6	4	368
CC64006		<10	1	0.13	<10	1.51	327	<1	0.02	31	320	35	<0.01	4	2	232
CC64007		<10	1	0.71	10	1.81	1015	1	0.02	85	930	37	0.18	3	6	343
CC64008		10	2	0.16	10	3.05	705	1	0.02	96	880	6	0.01	<2	8	240
CC64009		10	<1	0.27	10	2.38	370	1	0.02	97	730	3	0.02	3	3	25
CC64010		<10	1	0.39	10	0.89	925	1	0.02	79	900	20	0.03	3	6	123
CC64011		<10	2	0.14	20	1.76	555	<1	0.02	32	920	9	<0.01	<2	2	404
CC64012		<10	1	0.26	10	0.92	346	<1	0.02	61	950	5	<0.01	<2	3	684
CC64013		<10	2	0.08	10	0.86	482	1	0.02	38	660	23	<0.01	2	3	135
CC64014		<10	1	0.05	<10	0.77	285	1	0.01	32	600	25	<0.01	2	2	207
CC64015		10	1	0.12	20	2.19	1105	1	0.02	105	460	13	0.09	<2	7	26
CC64016		<10	1	0.13	10	1.85	1345	1	0.02	43	860	36	0.17	2	2	51
CC64017		<10	<1	0.12	20	0.31	3600	2	0.02	39	580	2460	0.09	29	4	39
CC64018		20	<1	0.42	10	4.14	556	<1	0.01	152	1020	12	0.02	<2	10	79
CC64019		10	1	0.07	10	2.28	709	1	0.02	83	730	10	0.04	<2	4	34
CC64020		10	<1	0.74	10	3.38	599	<1	0.02	126	1230	4	0.02	2	8	26

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Project: RAU

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CERTIFICATE OF ANALYSIS VO09087127

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC62960		<20	0.02	<10	<10	36	<10	223	
CC62961		<20	0.01	10	10	12	<10	123	
CC62962		<20	0.01	<10	<10	31	<10	117	
CC62963		<20	0.02	<10	<10	39	<10	174	
CC62985		<20	0.02	<10	<10	38	<10	115	
CC62986		<20	0.02	<10	10	26	<10	173	
CC62987		<20	0.02	<10	<10	51	<10	157	
CC62988		<20	0.01	<10	<10	42	<10	77	
CC62989		<20	0.02	<10	<10	38	<10	188	
CC62990		<20	0.02	<10	<10	39	<10	186	
CC62991		<20	0.02	<10	<10	38	<10	295	
CC62992		<20	0.02	<10	10	33	<10	350	
CC62993		<20	0.01	<10	<10	23	<10	245	
CC62994		<20	0.01	<10	<10	18	<10	175	
CC62995		<20	0.02	<10	<10	42	<10	379	
CC62996		<20	0.02	<10	<10	36	<10	182	
CC62997		<20	0.03	<10	<10	69	<10	162	
CC62998		<20	0.02	<10	<10	44	<10	212	
CC62999		<20	0.01	10	10	22	<10	364	
CC63000		<20	0.01	<10	10	19	<10	374	
CC64001		<20	0.01	<10	10	15	<10	110	
CC64002		<20	0.01	<10	<10	8	<10	49	
CC64003		<20	0.01	10	10	5	<10	48	
CC64004		<20	0.01	<10	10	10	<10	146	
CC64005		<20	0.01	<10	<10	14	<10	603	
CC64006		<20	0.01	<10	10	5	<10	580	
CC64007		<20	0.28	<10	<10	44	<10	1275	
CC64008		<20	0.19	<10	10	65	<10	76	
CC64009		<20	0.34	<10	<10	64	<10	81	
CC64010		<20	0.03	<10	<10	25	<10	253	
CC64011		<20	0.01	<10	<10	11	<10	96	
CC64012		<20	0.01	<10	<10	9	<10	61	
CC64013		<20	0.05	<10	10	24	<10	262	
CC64014		<20	<0.01	<10	10	4	<10	377	
CC64015		<20	0.27	<10	<10	75	<10	131	
CC64016		<20	0.03	<10	<10	23	<10	457	
CC64017		<20	0.02	<10	<10	18	<10	>10000	1.440
CC64018		<20	0.30	<10	<10	92	<10	144	
CC64019		<20	0.15	<10	<10	65	<10	86	
CC64020		<20	0.28	<10	<10	80	<10	107	

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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC64021		0.15	0.001	<0.2	0.18	5	<10	50	<0.5	<2	>25.0	<0.5	8	4	6	2.02
CC64022		0.21	<0.001	<0.2	0.45	3	<10	20	<0.5	<2	23.1	<0.5	11	8	11	2.59
CC64023		0.17	<0.001	<0.2	0.40	6	<10	30	<0.5	<2	>25.0	<0.5	7	8	7	1.65
CC64024		0.21	<0.001	<0.2	0.35	6	<10	50	<0.5	<2	>25.0	<0.5	5	7	6	0.97
CC64025		0.20	0.001	<0.2	0.31	15	<10	20	<0.5	<2	21.3	<0.5	12	5	13	3.20
CC64026		0.13	0.002	<0.2	0.31	29	<10	220	<0.5	<2	11.30	2.5	16	6	23	3.99
CC64027		0.16	0.007	1.4	0.46	115	<10	1440	<0.5	4	10.65	11.3	20	14	44	4.32
CC64028		0.10	0.001	<0.2	1.98	8	<10	1580	<0.5	<2	1.40	0.9	17	67	19	3.59
CC64029		0.16	<0.001	<0.2	2.42	7	<10	220	0.5	<2	1.06	<0.5	21	90	24	4.23
CC64030		0.17	<0.001	<0.2	2.92	<2	<10	150	0.5	<2	1.04	<0.5	25	110	26	4.95
CC64031		0.12	0.001	<0.2	3.28	3	<10	230	0.6	<2	1.04	<0.5	28	132	32	5.13
CC64032		0.10	0.004	0.2	1.43	13	<10	350	<0.5	<2	1.40	0.7	13	54	19	2.83
CC64033		0.12	0.002	<0.2	1.44	113	<10	450	0.7	<2	1.50	4.0	34	68	58	7.08
CC64034		0.09	0.001	0.4	2.39	26	<10	1800	0.7	<2	1.66	1.8	22	100	31	4.51
CC64035		0.14	0.001	<0.2	2.44	21	<10	270	0.5	<2	0.69	<0.5	18	99	20	5.27
CC64036		0.10	0.003	<0.2	1.78	27	<10	380	0.5	<2	0.58	1.1	23	70	30	5.59
CC64037		0.11	0.001	<0.2	2.10	18	<10	310	0.5	<2	0.51	<0.5	25	87	33	5.68
CC64038		0.10	<0.001	<0.2	2.86	29	<10	230	0.5	<2	0.77	0.7	26	130	34	5.14
CC64039		0.13	0.005	<0.2	0.99	33	<10	100	<0.5	<2	7.96	<0.5	17	27	21	4.30
CC64040		0.13	0.003	<0.2	1.01	32	<10	90	<0.5	<2	6.10	0.5	18	25	22	4.58
CC64041		0.15	0.001	<0.2	1.10	11	<10	70	<0.5	<2	12.95	<0.5	14	42	27	2.98
CC64042		0.19	0.001	<0.2	2.26	11	<10	150	0.5	<2	1.23	0.5	20	78	30	4.11
CC64043		0.14	<0.001	9.8	2.29	20	<10	580	0.6	<2	1.06	4.0	19	91	32	4.47
CC64044		0.14	0.002	0.8	1.69	31	<10	400	<0.5	<2	0.84	2.1	28	74	52	6.20
CC64045		0.15	<0.001	<0.2	2.78	10	<10	340	0.5	<2	0.38	<0.5	29	133	24	5.53
CC64046		0.13	<0.001	<0.2	2.58	2	<10	120	<0.5	<2	0.67	0.5	24	128	25	4.41
CC64047		0.14	0.002	<0.2	2.52	41	<10	190	<0.5	<2	0.59	0.7	24	118	27	4.67
CC64048		0.16	0.001	<0.2	2.64	5	<10	180	<0.5	<2	4.72	0.9	25	123	49	4.98
CC64049		0.20	0.007	<0.2	0.60	37	<10	80	<0.5	<2	15.0	<0.5	17	14	19	4.16
CC64050		0.14	0.005	<0.2	0.75	38	<10	100	<0.5	<2	9.69	0.5	15	22	18	4.05
CC64051		0.19	<0.001	<0.2	1.69	4	<10	140	0.5	<2	1.20	0.5	26	62	41	4.71
CC64052		0.11	0.003	<0.2	2.24	<2	<10	100	<0.5	<2	1.25	0.5	22	99	36	4.07
CC64053		0.17	0.001	<0.2	2.65	9	<10	130	0.5	<2	0.76	<0.5	24	122	27	4.66
CC64054		0.08	0.004	<0.2	2.01	10	<10	220	0.5	<2	1.79	0.5	16	73	34	2.97
CC64055		0.21	0.001	<0.2	2.70	5	<10	150	0.5	<2	0.71	0.5	24	125	30	4.77
CC64056		0.10	0.001	<0.2	2.57	127	<10	350	0.5	<2	0.85	0.8	22	111	35	4.51
CC64057		0.11	<0.001	<0.2	2.67	26	<10	320	0.6	<2	0.92	<0.5	21	117	27	4.57
CC64058		0.18	0.003	<0.2	2.56	11	<10	440	<0.5	<2	6.38	1.1	25	116	47	4.92
CC64059		0.15	0.006	<0.2	0.52	38	<10	70	<0.5	<2	20.4	<0.5	12	17	18	3.14
CC64060		0.21	0.004	<0.2	0.55	29	<10	60	<0.5	<2	20.4	<0.5	11	21	16	2.59

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087127

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64021		<10	<1	0.10	10	1.04	339	<1	0.01	25	450	6	<0.01	2	2	1040
CC64022		<10	<1	0.15	10	0.65	345	<1	0.01	32	870	5	<0.01	<2	3	700
CC64023		<10	1	0.10	10	1.07	313	1	0.02	22	500	8	<0.01	<2	2	405
CC64024		<10	<1	0.04	10	0.46	417	<1	0.01	13	420	7	<0.01	<2	1	215
CC64025		<10	<1	0.12	10	0.76	469	1	0.01	37	900	8	<0.01	<2	2	315
CC64026		<10	<1	0.17	10	2.22	871	1	0.02	48	990	53	0.12	2	2	171
CC64027		<10	<1	0.13	10	5.48	2070	1	0.03	77	750	160	0.22	8	2	108
CC64028		10	<1	0.11	10	1.19	590	1	0.03	61	700	23	0.10	2	3	51
CC64029		10	<1	0.10	10	1.74	558	1	0.02	80	680	16	0.06	2	4	27
CC64030		10	1	0.10	10	2.15	627	<1	0.01	98	890	12	0.03	<2	5	33
CC64031		10	<1	0.09	10	2.23	646	1	0.02	106	1010	13	0.06	4	5	36
CC64032		10	<1	0.08	10	0.92	595	1	0.02	48	690	43	0.08	<2	3	28
CC64033		10	<1	0.18	20	0.81	1370	1	0.02	167	1160	374	0.04	6	8	26
CC64034		10	<1	0.10	10	1.46	993	1	0.03	97	1570	130	0.14	3	3	30
CC64035		10	<1	0.12	20	1.71	439	1	0.01	84	1100	33	0.04	4	6	19
CC64036		10	<1	0.13	20	1.14	784	1	0.01	95	1440	66	0.05	2	4	18
CC64037		10	<1	0.13	20	1.44	713	1	0.02	111	1150	62	0.04	<2	4	16
CC64038		10	<1	0.13	10	2.38	684	<1	0.02	107	910	19	0.04	4	5	22
CC64039		<10	<1	0.12	20	0.68	495	1	0.02	62	1160	18	0.05	<2	3	124
CC64040		<10	<1	0.14	20	0.63	550	1	0.02	58	1440	19	0.05	<2	3	83
CC64041		<10	1	0.13	10	0.80	510	1	0.01	53	580	12	0.04	<2	3	352
CC64042		10	<1	0.11	20	1.56	817	1	0.02	78	900	23	0.05	<2	4	39
CC64043		10	<1	0.11	20	1.51	798	1	0.02	81	830	1425	0.08	7	5	21
CC64044		10	1	0.15	20	1.10	717	1	0.02	147	1190	217	0.07	<2	4	18
CC64045		10	<1	0.08	10	2.17	710	1	0.02	104	1070	175	0.06	<2	4	12
CC64046		10	<1	0.12	10	2.19	567	1	0.01	95	850	12	0.06	4	3	18
CC64047		10	<1	0.12	10	2.12	734	1	0.01	98	920	19	0.05	5	4	18
CC64048		10	<1	0.17	10	2.37	702	<1	0.01	110	760	22	0.04	<2	6	100
CC64049		<10	<1	0.10	20	0.68	461	1	0.02	49	1190	13	0.05	3	2	189
CC64050		<10	<1	0.11	20	0.59	539	<1	0.02	50	1450	25	0.08	2	2	114
CC64051		10	<1	0.11	20	1.17	890	2	0.01	101	920	15	0.07	3	4	39
CC64052		10	1	0.14	10	1.85	611	1	0.02	92	980	9	0.08	<2	4	40
CC64053		10	1	0.12	10	2.23	542	1	0.02	100	720	9	0.03	<2	5	21
CC64054		10	1	0.09	10	1.20	955	1	0.02	63	1830	6	0.19	<2	2	31
CC64055		10	1	0.16	10	2.15	682	1	0.02	99	840	37	0.03	<2	5	19
CC64056		10	1	0.13	10	2.01	673	1	0.01	92	890	16	0.05	<2	4	24
CC64057		<10	1	0.10	10	1.93	739	1	0.01	90	1080	11	0.06	<2	5	23
CC64058		<10	1	0.22	10	2.23	763	<1	0.01	106	790	20	0.04	3	6	130
CC64059		<10	1	0.12	10	0.94	330	1	0.01	41	920	14	<0.01	2	3	275
CC64060		<10	<1	0.09	10	0.82	329	<1	0.01	42	820	16	<0.01	3	3	344

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Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087127

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC64021		<20	0.01	<10	<10	3	<10	51	
CC64022		<20	0.01	<10	<10	5	<10	47	
CC64023		<20	0.01	<10	<10	6	<10	53	
CC64024		<20	0.01	<10	<10	11	<10	81	
CC64025		<20	<0.01	<10	<10	5	<10	60	
CC64026		<20	<0.01	<10	<10	5	<10	836	
CC64027		<20	0.01	<10	<10	9	<10	3020	
CC64028		<20	0.09	<10	<10	44	<10	343	
CC64029		<20	0.11	<10	<10	49	<10	121	
CC64030		<20	0.22	<10	<10	54	<10	112	
CC64031		<20	0.12	<10	<10	71	<10	110	
CC64032		<20	0.06	<10	<10	35	<10	351	
CC64033		<20	0.03	<10	<10	40	<10	1885	
CC64034		<20	0.05	<10	<10	52	<10	611	
CC64035		<20	0.06	<10	<10	56	<10	276	
CC64036		<20	0.04	<10	<10	39	<10	385	
CC64037		<20	0.10	<10	<10	49	<10	252	
CC64038		<20	0.15	<10	<10	65	<10	278	
CC64039		<20	0.02	<10	<10	22	<10	146	
CC64040		<20	0.02	<10	<10	21	<10	188	
CC64041		<20	0.05	<10	<10	21	<10	114	
CC64042		<20	0.12	<10	<10	48	<10	137	
CC64043		<20	0.09	<10	<10	51	<10	2440	
CC64044		<20	0.05	<10	<10	37	<10	592	
CC64045		<20	0.09	<10	<10	68	<10	171	
CC64046		<20	0.18	<10	<10	66	<10	137	
CC64047		<20	0.14	<10	<10	60	<10	337	
CC64048		<20	0.18	<10	<10	57	<10	307	
CC64049		<20	0.01	<10	<10	13	<10	125	
CC64050		<20	0.01	<10	<10	15	<10	209	
CC64051		<20	0.06	<10	<10	33	<10	131	
CC64052		<20	0.13	<10	<10	46	<10	125	
CC64053		<20	0.26	<10	<10	64	<10	139	
CC64054		<20	0.06	<10	<10	40	<10	91	
CC64055		<20	0.26	<10	<10	69	<10	255	
CC64056		<20	0.13	<10	<10	61	<10	295	
CC64057		<20	0.10	<10	<10	65	<10	158	
CC64058		<20	0.21	<10	<10	53	<10	321	
CC64059		<20	0.01	<10	10	12	<10	134	
CC64060		<20	0.02	<10	10	12	<10	141	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087127

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC64061		0.11	0.009	0.9	1.01	56	<10	1470	0.6	<2	2.83	6.5	24	29	80	5.79
CC64062		0.10	0.003	<0.2	1.58	23	<10	400	0.6	<2	1.48	2.3	10	31	17	3.17
CC64063		0.23	0.004	<0.2	0.96	23	<10	160	<0.5	<2	7.56	0.8	8	22	26	2.32
CC64064		0.13	0.012	0.2	1.58	39	<10	290	0.7	<2	1.55	1.8	12	30	19	3.49
CC64065		0.14	0.016	<0.2	1.09	38	<10	180	0.6	<2	4.83	2.7	9	22	17	2.85
CC64066		0.08	0.004	<0.2	0.73	34	<10	230	<0.5	<2	8.26	3.4	5	13	13	2.00
CC64067		0.09	0.015	0.3	1.30	39	<10	200	0.6	<2	2.90	1.8	8	26	16	3.06
CC64068		0.11	NSS	<0.2	0.76	21	<10	150	<0.5	<2	1.41	2.0	8	20	11	2.74
CC64069		0.11	0.010	0.2	0.58	37	<10	820	0.5	<2	3.47	6.0	36	11	68	6.80
CC64070		0.14	0.002	0.4	1.49	23	<10	840	0.5	<2	1.26	6.5	15	51	24	3.83
CC64071		0.18	0.007	<0.2	1.43	44	<10	320	0.5	2	5.35	1.6	13	43	28	3.57
CC64072		0.14	0.007	0.3	1.03	64	<10	930	<0.5	<2	6.35	4.6	12	30	31	3.45
CC64073		0.15	0.029	0.8	0.35	138	<10	280	<0.5	9	15.3	1.8	7	9	35	2.45
CC64074		0.23	0.002	<0.2	0.95	22	<10	140	<0.5	<2	18.8	<0.5	12	41	19	2.98
CC64075		0.20	0.001	<0.2	1.19	27	<10	360	<0.5	<2	16.0	<0.5	10	57	23	2.91
CC64076		0.18	<0.001	<0.2	2.76	11	<10	370	<0.5	<2	7.40	0.8	26	124	51	5.09
CC64077		0.14	<0.001	<0.2	2.79	5	<10	300	0.5	<2	0.86	<0.5	21	134	26	4.50
CC64078		0.10	0.003	<0.2	2.68	59	<10	450	0.6	<2	0.97	0.9	21	112	40	4.32
CC64079		0.10	<0.001	<0.2	2.56	20	<10	280	0.5	<2	1.19	1.3	22	106	38	4.32
CC64080		0.13	<0.001	<0.2	3.08	4	<10	160	0.6	<2	0.73	<0.5	25	121	37	5.01
CC64081		0.20	<0.001	<0.2	2.33	35	<10	110	0.5	<2	0.49	<0.5	20	92	42	4.18
CC64082		0.13	0.003	<0.2	2.47	152	<10	420	0.5	<2	0.78	0.5	22	101	42	4.58
CC64083		0.21	0.004	<0.2	2.21	162	<10	1100	0.6	<2	0.43	<0.5	18	96	34	4.43
CC64084		0.12	0.001	<0.2	2.93	7	<10	200	0.6	<2	0.81	0.5	23	127	41	4.88
CC64085		0.15	<0.001	<0.2	3.35	7	<10	130	0.5	<2	2.70	0.6	30	155	67	6.06
CC64086		0.13	0.023	0.4	1.73	73	<10	600	<0.5	<2	6.27	1.9	18	77	39	4.28
CC64087		0.12	0.007	0.4	0.93	34	<10	750	<0.5	3	11.30	3.0	9	25	26	2.81
CC64088		0.16	0.127	0.4	0.67	39	<10	1540	<0.5	5	14.8	1.9	8	20	26	2.20

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC64061		<10	<1	0.15	20	0.96	1010	19	0.02	95	4010	104	0.08	8	3	49
CC64062		<10	1	0.08	20	0.82	654	1	0.02	30	1380	40	0.07	<2	3	21
CC64063		<10	1	0.10	10	1.45	445	1	0.03	29	930	23	0.01	2	3	75
CC64064		<10	1	0.08	10	1.01	1365	2	0.02	37	1280	78	0.06	<2	3	23
CC64065		<10	1	0.07	10	2.97	1425	7	0.02	31	1060	70	0.04	<2	2	30
CC64066		<10	<1	0.06	10	4.88	1085	4	0.02	18	1150	53	0.09	<2	1	40
CC64067		<10	1	0.08	10	1.46	1185	5	0.02	25	1200	63	0.10	<2	2	20
CC64068		<10	1	0.10	10	0.34	415	1	0.01	23	960	42	0.13	2	2	24
CC64069		<10	1	0.13	20	1.02	2220	6	0.02	71	3940	93	0.15	4	2	51
CC64070		<10	1	0.09	20	0.92	1295	1	0.02	54	1380	113	0.07	<2	3	30
CC64071		<10	1	0.10	10	2.16	767	2	0.02	48	1160	61	0.03	<2	4	51
CC64072		<10	1	0.09	10	2.37	920	2	0.02	41	1630	73	0.09	2	2	68
CC64073		<10	1	0.07	10	6.49	725	20	0.03	33	880	48	0.05	4	2	123
CC64074		<10	1	0.11	10	1.52	424	1	0.02	49	860	15	<0.01	<2	4	244
CC64075		<10	<1	0.09	10	1.24	485	1	0.02	48	420	13	0.03	<2	4	208
CC64076		<10	1	0.26	10	2.41	791	1	0.02	110	740	20	0.03	<2	7	157
CC64077		10	1	0.10	10	2.19	479	<1	0.01	90	820	20	0.04	<2	5	23
CC64078		10	1	0.11	20	1.99	755	1	0.02	88	1220	14	0.08	5	4	26
CC64079		<10	1	0.14	10	1.91	506	1	0.02	90	870	10	0.06	<2	4	35
CC64080		10	1	0.17	10	2.32	652	1	0.02	101	770	5	0.03	2	4	24
CC64081		10	<1	0.12	10	1.67	609	1	0.01	88	640	10	0.01	3	5	16
CC64082		<10	1	0.14	20	1.88	786	1	0.02	91	720	108	0.03	12	5	22
CC64083		<10	1	0.13	10	1.56	508	<1	0.02	81	510	9	0.02	6	6	15
CC64084		10	1	0.13	10	2.30	861	1	0.02	93	900	19	0.05	<2	5	25
CC64085		10	2	0.25	10	2.97	741	1	0.02	132	730	21	0.02	<2	8	65
CC64086		<10	<1	0.12	10	2.46	700	1	0.02	76	1180	66	0.03	<2	5	99
CC64087		<10	<1	0.15	10	3.22	1395	2	0.03	33	890	62	0.03	4	3	140
CC64088		<10	1	0.10	10	5.68	598	5	0.03	32	860	38	0.05	2	2	170

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ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087127

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC64061		<20	0.02	10	<10	110	<10	2120	
CC64062		<20	0.03	<10	<10	51	<10	683	
CC64063		<20	0.06	<10	<10	37	<10	241	
CC64064		<20	0.03	<10	<10	67	<10	568	
CC64065		<20	0.03	<10	<10	53	<10	596	
CC64066		<20	0.02	<10	<10	37	<10	524	
CC64067		<20	0.02	<10	<10	68	<10	437	
CC64068		<20	0.01	<10	<10	20	<10	418	
CC64069		<20	0.01	<10	<10	47	<10	1975	
CC64070		<20	0.05	<10	<10	39	<10	1595	
CC64071		<20	0.05	<10	<10	45	<10	539	
CC64072		<20	0.03	<10	<10	31	<10	852	
CC64073		<20	0.01	<10	10	27	<10	585	
CC64074		<20	0.03	<10	<10	23	<10	147	
CC64075		<20	0.05	<10	10	30	<10	150	
CC64076		<20	0.27	<10	<10	57	<10	310	
CC64077		<20	0.16	<10	<10	67	<10	226	
CC64078		<20	0.08	<10	<10	59	<10	415	
CC64079		<20	0.16	<10	<10	57	<10	324	
CC64080		<20	0.25	<10	<10	73	<10	117	
CC64081		<20	0.25	<10	<10	55	<10	106	
CC64082		<20	0.17	<10	<10	54	<10	227	
CC64083		<20	0.12	<10	<10	54	<10	102	
CC64084		<20	0.13	<10	<10	66	<10	170	
CC64085		<20	0.23	<10	<10	72	<10	273	
CC64086		<20	0.17	<10	<10	47	<10	901	
CC64087		<20	0.06	<10	10	33	<10	920	
CC64088		<20	0.06	<10	10	30	<10	480	

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087127

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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VANCOUVER BC V6B 1L8

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE VO09087126

Project: RAU

P.O. No.:

This report is for 155 Soil samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62228		0.13	0.012	4.6	0.45	39	<10	1260	<0.5	11	12.10	17.9	6	8	13	8.34
CC62229		0.20	0.006	1.7	0.75	26	<10	1820	<0.5	<2	15.7	8.8	12	14	15	4.47
CC62230		0.16	0.003	1.2	0.56	13	<10	1200	<0.5	<2	22.1	17.4	6	13	9	4.01
CC62231		0.12	0.004	0.2	0.84	37	<10	160	<0.5	<2	21.7	0.7	9	21	16	2.47
CC62232		0.15	0.001	<0.2	0.40	11	<10	680	<0.5	<2	>25.0	<0.5	5	8	8	1.24
CC62233		0.15	0.002	0.3	0.59	21	<10	420	<0.5	<2	23.3	0.6	14	12	16	2.37
CC62234		0.15	0.001	0.4	0.72	14	<10	250	<0.5	<2	24.3	2.2	9	17	18	2.56
CC62235		0.16	0.004	0.2	0.82	7	<10	160	<0.5	<2	>25.0	0.6	7	29	17	2.65
CC62236		0.12	0.005	0.4	1.17	21	<10	350	<0.5	<2	24.5	3.9	9	51	37	3.58
CC62237		0.10	0.030	11.7	0.39	69	<10	280	<0.5	53	13.25	3.0	4	11	9	3.32
CC62238		0.13	0.007	0.6	0.20	17	<10	150	<0.5	<2	18.3	1.3	3	6	7	0.66
CC62239		0.13	0.010	0.3	0.68	20	<10	140	<0.5	<2	12.50	<0.5	5	11	10	1.57
CC62240		0.13	0.003	0.3	0.13	9	<10	80	<0.5	<2	18.1	1.2	2	5	4	0.63
CC62241		0.11	0.002	0.7	0.36	11	<10	130	<0.5	<2	16.2	0.6	2	7	4	1.99
CC62242		Not Recvd														
CC62243		0.17	0.043	1.7	2.24	514	<10	580	0.8	49	3.90	5.4	41	89	170	11.15
CC62244		0.17	0.005	0.4	0.22	14	<10	910	<0.5	<2	12.15	0.8	3	6	5	0.78
CC62245		0.11	0.017	0.8	0.51	67	<10	240	<0.5	7	14.10	1.8	7	15	16	2.43
CC62246		0.15	0.003	0.2	0.13	6	<10	70	<0.5	<2	18.3	1.4	2	3	3	0.46
CC62247		0.18	0.008	0.4	0.11	13	<10	70	<0.5	<2	18.5	2.3	3	5	3	0.78
CC62248		0.27	0.002	<0.2	1.09	13	<10	160	0.5	2	0.87	<0.5	7	16	18	3.24
CC62821		0.12	0.002	0.5	1.53	14	<10	330	0.6	<2	5.61	0.6	10	30	20	4.97
CC62822		0.06	NSS	0.3	1.38	12	<10	260	0.5	<2	6.72	<0.5	14	23	22	4.70
CC62823		0.09	0.005	0.3	1.06	14	<10	250	<0.5	<2	3.44	<0.5	10	23	19	3.29
CC62824		0.06	0.002	0.5	1.35	20	<10	360	0.5	<2	2.38	0.8	16	27	32	3.75
CC62825		0.07	0.001	0.4	0.90	21	<10	390	<0.5	<2	2.62	<0.5	11	18	22	2.98
CC62826		0.06	0.005	0.3	1.56	18	<10	1240	0.7	<2	2.32	<0.5	10	25	11	2.69
CC62827		0.04	0.001	0.5	1.36	22	<10	520	0.5	<2	2.43	0.7	9	25	17	3.18
CC62828		0.09	0.006	0.5	1.16	17	<10	470	0.5	<2	2.65	0.7	9	21	26	2.45
CC62829		0.13	0.005	0.4	0.53	18	<10	120	<0.5	<2	11.80	<0.5	4	11	12	1.26
CC62830		0.06	<0.001	0.6	1.34	20	<10	700	0.5	<2	2.18	0.6	10	26	15	2.56
CC62831		0.07	0.002	0.2	1.69	24	<10	500	0.6	<2	2.16	0.7	9	27	15	2.95
CC62832		0.06	0.002	0.2	1.87	17	<10	240	0.7	<2	1.13	0.5	10	31	16	3.25
CC62833		0.10	0.005	0.5	1.60	17	<10	500	0.6	<2	1.94	0.6	11	32	31	3.14
CC62834		0.13	0.003	0.6	1.48	18	<10	470	0.6	<2	2.01	<0.5	11	27	34	3.02
CC62835		0.09	0.002	0.3	1.38	15	<10	330	0.6	<2	1.50	<0.5	10	24	23	2.76
CC62836		0.18	0.003	0.4	1.23	16	<10	240	0.5	<2	2.91	0.5	10	30	21	2.62
CC62837		0.13	0.002	0.3	2.17	19	<10	320	0.9	<2	0.48	<0.5	14	36	21	3.57
CC62838		0.17	0.003	0.4	1.32	21	<10	240	0.5	2	1.93	<0.5	10	26	24	2.92
CC62839		0.04	0.003	0.5	1.22	22	<10	280	0.5	<2	2.73	1.0	8	20	28	2.36

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Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
CC62228		<10	<1	0.11	10	2.52	41200	1	0.03	24	500	675	0.04	<2	2	111
CC62229		<10	1	0.23	10	2.13	10250	1	0.04	40	860	321	<0.01	<2	2	167
CC62230		<10	1	0.20	10	1.52	6590	1	0.03	23	540	463	<0.01	<2	2	258
CC62231		<10	<1	0.24	10	1.23	393	1	0.03	29	1630	85	<0.01	<2	2	299
CC62232		<10	1	0.10	10	1.24	213	1	0.03	17	640	13	<0.01	<2	1	218
CC62233		<10	1	0.19	10	1.69	722	2	0.02	33	800	38	<0.01	<2	1	145
CC62234		<10	1	0.17	10	0.60	769	1	0.03	19	670	102	<0.01	<2	1	153
CC62235		<10	<1	0.18	<10	0.86	968	1	0.02	18	460	43	<0.01	<2	2	135
CC62236		<10	<1	0.43	10	0.90	1930	1	0.02	36	600	218	<0.01	<2	3	93
CC62237		<10	<1	0.07	10	8.86	2510	3	0.04	15	1100	441	0.04	<2	1	64
CC62238		<10	<1	0.05	<10	11.55	641	10	0.03	15	560	87	<0.01	<2	<1	73
CC62239		<10	<1	0.07	10	8.53	893	7	0.03	20	750	27	0.05	<2	1	60
CC62240		<10	<1	0.03	<10	11.65	438	3	0.02	8	340	73	<0.01	<2	<1	68
CC62241		<10	<1	0.05	<10	10.35	1310	1	0.03	6	980	41	<0.01	<2	1	63
CC62242																
CC62243		<10	1	0.64	30	2.69	2120	7	0.03	204	2070	1710	0.02	21	11	22
CC62244		<10	<1	0.03	<10	7.94	814	3	0.02	7	390	61	0.05	<2	1	49
CC62245		<10	1	0.15	10	9.45	1205	9	0.03	31	1010	217	0.06	2	1	72
CC62246		<10	<1	0.02	<10	11.75	575	2	0.03	4	240	39	<0.01	<2	<1	72
CC62247		<10	<1	0.03	<10	11.75	672	3	0.02	10	150	113	<0.01	<2	<1	71
CC62248		<10	<1	0.47	30	0.57	342	1	0.03	17	510	24	0.02	<2	3	16
CC62821		<10	<1	0.31	10	2.98	975	1	0.05	27	760	34	0.09	<2	3	63
CC62822		<10	<1	0.46	10	0.85	603	1	0.03	34	1080	13	0.11	<2	3	208
CC62823		<10	1	0.18	10	1.82	538	2	0.03	23	870	21	0.05	<2	3	49
CC62824		<10	<1	0.28	20	0.72	981	2	0.03	38	1010	25	0.09	<2	3	57
CC62825		<10	<1	0.09	10	0.45	477	2	0.02	28	870	23	0.13	<2	2	29
CC62826		<10	<1	0.10	10	0.63	451	1	0.03	25	740	28	0.08	<2	2	26
CC62827		<10	<1	0.15	10	0.67	567	2	0.03	25	600	28	0.09	<2	3	26
CC62828		<10	<1	0.10	10	0.76	512	2	0.02	34	900	26	0.10	<2	2	26
CC62829		<10	<1	0.06	10	7.84	377	3	0.02	19	860	16	0.04	<2	1	65
CC62830		<10	1	0.12	10	0.91	610	2	0.03	23	870	31	0.08	<2	2	24
CC62831		<10	1	0.11	10	1.35	748	2	0.02	20	440	36	0.04	<2	3	18
CC62832		<10	1	0.14	10	0.78	452	2	0.02	25	520	35	0.04	<2	3	17
CC62833		<10	<1	0.15	10	0.88	513	2	0.02	32	850	31	0.06	<2	3	28
CC62834		<10	<1	0.17	10	0.99	555	2	0.02	31	760	33	0.06	<2	3	31
CC62835		<10	<1	0.12	10	0.64	630	2	0.02	24	720	28	0.06	<2	2	24
CC62836		<10	<1	0.15	10	1.84	520	2	0.02	25	860	38	0.02	<2	3	32
CC62837		10	<1	0.14	20	0.71	540	2	0.02	32	250	36	0.01	<2	5	17
CC62838		<10	<1	0.14	10	1.32	598	2	0.02	29	760	31	0.03	<2	3	25
CC62839		<10	1	0.12	10	0.75	657	2	0.03	20	1070	30	0.13	<2	2	21

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Project: RAU

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CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62228		<20	0.01	<10	<10	13	10	3750
CC62229		<20	0.01	<10	<10	17	<10	2390
CC62230		<20	0.01	<10	<10	10	10	5020
CC62231		<20	0.02	<10	<10	16	<10	384
CC62232		<20	0.01	<10	<10	8	<10	87
CC62233		<20	0.01	<10	<10	12	<10	296
CC62234		<20	0.01	<10	<10	18	<10	939
CC62235		<20	0.02	<10	10	21	<10	400
CC62236		<20	0.06	<10	<10	31	<10	1390
CC62237		<20	0.01	<10	<10	23	30	597
CC62238		<20	<0.01	<10	10	49	<10	425
CC62239		<20	0.01	<10	<10	44	<10	159
CC62240		<20	<0.01	<10	<10	29	<10	245
CC62241		<20	0.01	<10	<10	16	<10	127
CC62242								
CC62243		<20	0.05	<10	<10	80	30	3380
CC62244		<20	0.01	<10	<10	18	<10	304
CC62245		<20	0.01	<10	10	60	10	472
CC62246		<20	<0.01	<10	<10	14	<10	349
CC62247		<20	<0.01	<10	<10	8	<10	429
CC62248		<20	0.02	<10	<10	24	<10	115
CC62821		<20	0.02	<10	<10	43	<10	182
CC62822		<20	0.02	<10	<10	32	<10	111
CC62823		<20	0.03	<10	<10	37	<10	107
CC62824		<20	0.01	<10	<10	39	<10	158
CC62825		<20	0.01	<10	<10	30	<10	64
CC62826		<20	0.01	<10	10	47	<10	76
CC62827		<20	0.02	<10	<10	45	<10	113
CC62828		<20	0.01	<10	<10	40	<10	92
CC62829		<20	0.01	<10	<10	35	<10	79
CC62830		<20	0.02	<10	<10	59	<10	121
CC62831		<20	0.02	<10	<10	65	<10	217
CC62832		<20	0.02	<10	<10	61	<10	132
CC62833		<20	0.02	<10	<10	47	<10	178
CC62834		<20	0.01	<10	<10	41	<10	146
CC62835		<20	0.01	<10	<10	41	<10	135
CC62836		<20	0.02	<10	<10	39	<10	148
CC62837		<20	0.03	<10	<10	63	<10	145
CC62838		<20	0.02	<10	<10	42	<10	140
CC62839		<20	0.01	<10	<10	39	<10	213

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CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC62840		0.10	0.004	0.4	0.77	58	<10	160	<0.5	<2	6.91	0.6	5	14	18	1.74
CC62841		0.12	0.003	0.4	0.75	35	<10	150	<0.5	<2	9.10	0.5	5	11	13	1.52
CC62842		0.06	0.002	0.2	1.22	18	<10	160	0.5	<2	4.03	1.1	8	19	12	2.68
CC62843		0.15	0.003	0.3	1.49	18	<10	240	0.6	<2	0.94	0.5	11	28	17	3.09
CC62844		0.14	0.003	0.2	1.53	20	<10	200	0.5	<2	0.60	<0.5	11	27	15	3.39
CC62845		0.08	0.003	0.4	0.62	10	<10	100	<0.5	<2	7.67	0.9	5	10	11	1.23
CC62846		0.11	0.002	0.5	1.64	20	<10	190	0.8	<2	1.20	<0.5	9	28	13	3.42
CC62851		0.13	0.001	<0.2	1.82	16	<10	250	0.6	2	0.52	0.5	10	28	12	3.27
CC62852		0.16	0.002	0.3	0.99	19	<10	190	<0.5	<2	8.94	0.6	9	19	23	2.38
CC62853		0.13	0.003	0.4	0.89	22	<10	130	<0.5	<2	8.01	0.5	6	15	12	1.88
CC62854		0.10	0.002	0.6	1.04	49	<10	250	<0.5	<2	4.12	0.6	7	17	12	2.48
CC62855		0.11	<0.001	0.3	1.65	16	<10	190	0.6	<2	1.19	0.7	9	25	10	2.76
CC62856		0.12	0.006	0.6	1.79	31	<10	280	0.7	<2	0.83	<0.5	10	30	16	3.16
CC62857		0.09	<0.001	0.2	0.35	10	<10	70	<0.5	<2	12.40	<0.5	3	15	7	0.73
CC62858		0.08	0.003	0.3	1.31	17	<10	210	<0.5	<2	1.32	0.6	7	21	11	2.37
CC62859		0.08	0.003	0.4	0.72	14	<10	110	<0.5	<2	9.33	0.6	4	11	8	1.28
CC62860		0.16	0.009	0.4	0.97	20	<10	130	<0.5	<2	7.77	0.5	6	17	14	1.93
CC62861		0.09	0.024	0.8	1.69	24	<10	820	0.7	<2	2.84	1.0	10	34	44	2.85
CC62862		0.08	0.002	0.4	1.79	17	<10	290	0.7	<2	1.10	0.8	9	31	13	3.27
CC62863		0.08	0.001	0.4	1.89	14	<10	240	0.7	<2	1.90	0.6	8	29	11	2.87
CC62864		0.10	<0.001	0.2	2.01	13	<10	330	0.5	<2	1.07	1.0	11	29	10	3.44
CC62865		0.11	0.002	0.3	0.58	9	<10	200	<0.5	<2	9.97	0.5	4	10	8	1.31
CC62866		0.09	0.006	0.2	1.05	18	<10	790	0.5	<2	2.28	<0.5	7	16	20	2.55
CC62867		0.08	0.003	0.5	1.36	19	<10	500	0.6	<2	3.23	0.6	9	27	22	3.01
CC62868		0.16	0.005	0.2	1.68	22	<10	600	0.7	<2	0.71	<0.5	11	32	22	3.51
CC62869		0.08	0.001	0.2	2.12	16	<10	380	0.6	<2	0.89	0.6	10	33	14	3.40
CC62870		0.07	<0.001	0.3	0.16	9	<10	40	<0.5	<2	14.5	0.6	2	3	6	0.34
CC62871		0.07	0.004	0.3	1.22	9	<10	320	0.5	<2	4.08	2.7	6	17	16	1.85
CC62872		0.14	0.001	0.2	1.79	18	<10	180	0.8	<2	3.95	0.7	10	28	11	3.13
CC62873		0.11	0.001	0.3	1.95	22	<10	450	0.7	<2	1.22	0.9	9	32	14	3.34
CC62874		0.04	0.002	0.2	0.42	12	10	170	<0.5	<2	9.06	1.4	3	8	20	1.00
CC62875		0.06	0.003	0.5	0.98	15	<10	280	<0.5	<2	7.83	0.6	11	29	27	2.59
CC62876		0.05	<0.001	0.3	1.11	17	<10	320	0.5	<2	3.57	<0.5	15	20	22	3.94
CC62877		0.15	<0.001	0.4	0.74	15	<10	270	0.5	<2	11.05	<0.5	13	12	18	3.94
CC62878		0.13	0.001	0.3	0.38	15	<10	120	<0.5	<2	11.85	<0.5	10	11	9	2.00
CC62879		0.09	0.001	0.5	1.73	19	<10	240	0.7	<2	1.01	1.2	9	28	16	3.19
CC62880		0.12	<0.001	0.4	0.83	14	<10	220	<0.5	<2	11.10	1.2	5	11	11	1.28
CC62881		0.06	0.007	0.2	1.39	11	<10	220	0.6	<2	1.29	2.5	6	18	11	2.12
CC62882		0.08	0.002	0.3	1.74	17	<10	200	0.5	<2	0.49	0.7	7	27	8	3.12
CC62883		0.14	0.004	0.3	1.28	15	<10	190	0.5	<2	0.94	0.5	8	22	11	2.49

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62840		<10	1	0.06	10	4.28	789	1	0.02	14	770	32	0.06	2	1	23
CC62841		<10	<1	0.05	10	6.03	835	1	0.02	9	560	67	0.05	<2	1	43
CC62842		<10	<1	0.10	10	2.39	1080	2	0.02	17	800	26	0.05	<2	2	21
CC62843		<10	<1	0.12	10	0.62	1065	1	0.02	24	660	26	0.05	<2	3	18
CC62844		10	1	0.13	10	0.54	743	2	0.02	22	570	26	0.03	<2	2	14
CC62845		<10	<1	0.04	<10	4.77	580	1	0.02	7	880	11	0.06	<2	1	20
CC62846		<10	<1	0.12	20	0.86	679	2	0.02	25	740	33	0.04	<2	3	16
CC62851		<10	<1	0.10	20	0.53	675	2	0.02	21	400	31	0.03	<2	3	13
CC62852		<10	<1	0.20	10	3.85	505	2	0.02	25	820	25	0.03	<2	2	167
CC62853		<10	<1	0.11	10	5.23	546	1	0.02	16	840	23	0.04	<2	1	32
CC62854		<10	<1	0.08	10	2.35	2240	1	0.02	16	1020	23	0.06	<2	2	18
CC62855		<10	<1	0.08	10	0.74	771	1	0.02	14	710	21	0.05	<2	2	14
CC62856		10	<1	0.10	10	0.73	937	1	0.02	23	690	19	0.04	3	3	18
CC62857		<10	<1	0.03	<10	8.08	412	<1	0.02	6	630	19	0.05	<2	1	26
CC62858		<10	1	0.09	10	0.50	381	1	0.01	14	540	22	0.07	<2	2	14
CC62859		<10	<1	0.06	<10	5.93	451	<1	0.02	6	870	12	0.10	2	1	22
CC62860		<10	1	0.09	10	5.18	370	1	0.02	16	810	23	0.06	2	2	31
CC62861		<10	1	0.23	10	1.10	502	<1	0.01	36	1010	28	0.13	2	3	32
CC62862		10	1	0.12	10	0.73	573	1	0.02	23	380	26	0.06	3	4	19
CC62863		10	1	0.09	10	1.25	702	1	0.02	19	590	21	0.08	2	3	15
CC62864		10	<1	0.08	10	0.56	1260	1	0.02	15	470	17	0.04	2	3	17
CC62865		<10	<1	0.06	<10	6.26	422	1	0.01	7	640	14	0.05	<2	1	35
CC62866		<10	1	0.26	20	1.19	338	1	0.02	17	600	22	0.07	3	2	23
CC62867		<10	1	0.19	10	1.88	608	2	0.02	29	800	28	0.06	3	3	32
CC62868		10	<1	0.12	20	0.66	613	2	0.01	31	460	31	0.03	<2	4	18
CC62869		10	1	0.12	20	0.76	443	2	0.02	23	440	26	0.03	3	4	18
CC62870		<10	1	0.03	<10	8.78	266	1	0.02	2	720	3	0.09	3	<1	56
CC62871		<10	2	0.06	<10	1.70	796	1	0.01	10	780	27	0.12	5	1	22
CC62872		<10	<1	0.08	10	2.61	845	2	0.01	22	460	26	0.04	3	3	21
CC62873		10	1	0.12	10	0.72	456	1	0.01	23	590	27	0.05	4	3	17
CC62874		<10	1	0.05	<10	4.96	1050	1	0.02	8	1270	7	0.16	3	1	44
CC62875		<10	1	0.14	10	4.64	479	1	0.02	23	980	12	0.12	<2	2	59
CC62876		<10	1	0.27	20	0.86	491	1	0.02	37	900	14	0.12	3	3	92
CC62877		<10	1	0.31	20	3.19	325	1	0.01	35	780	9	0.09	<2	3	305
CC62878		<10	<1	0.14	10	7.21	297	1	0.01	21	620	9	0.10	<2	2	88
CC62879		10	1	0.13	10	0.54	633	1	0.01	23	550	29	0.06	3	3	15
CC62880		<10	1	0.06	10	6.97	872	1	0.02	8	1100	12	0.08	<2	1	45
CC62881		<10	1	0.07	10	0.56	249	1	0.01	11	690	18	0.07	2	2	17
CC62882		10	1	0.12	10	0.44	312	1	0.02	15	450	26	0.04	2	3	13
CC62883		<10	1	0.07	10	0.57	518	1	0.01	15	530	16	0.06	3	2	13

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Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62840		<20	0.01	<10	<10	32	<10	207
CC62841		<20	0.01	<10	<10	29	<10	171
CC62842		<20	0.02	<10	<10	37	<10	151
CC62843		<20	0.03	<10	<10	47	<10	110
CC62844		<20	0.02	<10	<10	51	<10	122
CC62845		<20	0.01	<10	<10	19	<10	77
CC62846		<20	0.02	<10	<10	46	<10	111
CC62851		<20	0.02	<10	<10	61	<10	160
CC62852		<20	0.02	<10	<10	31	<10	124
CC62853		<20	0.01	<10	<10	31	<10	147
CC62854		<20	0.02	<10	<10	55	<10	177
CC62855		<20	0.03	<10	<10	56	<10	101
CC62856		<20	0.03	<10	<10	64	<10	96
CC62857		<20	0.01	<10	<10	11	<10	90
CC62858		<20	0.02	<10	<10	45	<10	154
CC62859		<20	0.01	<10	<10	22	<10	89
CC62860		<20	0.02	<10	<10	35	<10	129
CC62861		<20	0.01	<10	<10	45	<10	209
CC62862		<20	0.03	<10	<10	59	<10	162
CC62863		<20	0.03	<10	<10	58	<10	166
CC62864		<20	0.04	<10	<10	71	<10	180
CC62865		<20	0.01	<10	<10	23	<10	78
CC62866		<20	0.01	<10	<10	27	<10	69
CC62867		<20	0.02	<10	<10	41	<10	131
CC62868		<20	0.02	<10	<10	54	<10	126
CC62869		<20	0.03	<10	<10	70	<10	127
CC62870		<20	<0.01	<10	10	20	<10	35
CC62871		<20	0.02	<10	<10	58	<10	266
CC62872		<20	0.01	<10	<10	53	<10	110
CC62873		<20	0.02	<10	<10	65	<10	158
CC62874		<20	0.01	<10	<10	14	<10	140
CC62875		<20	0.02	<10	<10	33	<10	87
CC62876		<20	0.01	<10	<10	28	<10	104
CC62877		<20	0.01	<10	<10	16	<10	66
CC62878		<20	<0.01	<10	<10	14	<10	48
CC62879		<20	0.01	<10	<10	54	<10	165
CC62880		<20	0.01	<10	<10	27	<10	197
CC62881		<20	0.03	<10	<10	43	<10	146
CC62882		<20	0.02	<10	<10	63	<10	236
CC62883		<20	0.02	<10	<10	41	<10	86

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62884		0.14	0.002	0.2	2.13	27	<10	230	0.6	<2	0.69	0.8	9	31	6	2.82
CC62885		0.06	0.006	0.4	1.82	17	<10	220	0.7	<2	1.40	0.8	8	26	13	2.76
CC62886		0.10	0.002	0.3	1.66	12	<10	160	<0.5	<2	0.83	0.6	6	24	7	2.57
CC62887		0.10	0.001	0.4	1.98	13	<10	350	0.5	<2	0.61	0.7	8	30	8	3.14
CC62888		0.09	0.003	0.4	1.97	14	<10	210	0.6	<2	0.88	0.5	8	32	9	3.09
CC62889		0.13	0.004	0.5	2.35	26	<10	330	1.0	<2	0.24	<0.5	11	39	16	3.73
CC62890		0.10	0.003	0.4	1.72	12	<10	330	0.6	<2	0.91	<0.5	8	27	13	3.05
CC62891		0.16	0.004	0.4	2.03	15	<10	240	0.8	<2	0.57	0.6	11	32	17	3.18
CC62892		0.06	0.006	0.2	0.92	52	<10	250	<0.5	4	4.19	0.9	6	15	16	2.10
CC62893		0.11	0.006	<0.2	1.34	54	<10	400	0.6	<2	3.82	0.7	7	21	13	2.72
CC62894		0.09	0.008	0.2	1.29	22	<10	370	0.6	<2	2.66	0.8	8	22	24	2.52
CC62895		0.11	0.006	0.2	1.17	12	<10	490	0.5	<2	1.97	0.6	8	21	19	2.18
CC62896		0.11	0.004	0.2	1.21	12	<10	540	0.6	<2	1.89	0.6	9	21	26	2.33
CC62897		Not Recvd														
CC62898		0.17	0.005	<0.2	1.16	13	<10	370	0.5	<2	1.92	0.5	10	22	29	2.49
CC62899		0.30	0.004	<0.2	1.13	15	<10	270	<0.5	<2	3.58	0.7	10	23	26	2.51
CC62900		0.19	0.005	<0.2	1.29	16	<10	310	0.6	<2	2.49	0.7	10	24	31	2.73
CC62901		0.22	0.004	0.3	1.18	11	<10	260	0.5	<2	3.57	0.6	11	22	32	2.68
CC62902		0.10	0.003	0.3	1.10	20	<10	360	0.5	<2	2.03	<0.5	10	20	27	2.69
CC62903		0.21	0.004	0.2	1.29	22	<10	320	0.6	2	3.94	0.7	11	22	36	2.86
CC62904		0.20	0.005	0.3	1.31	20	<10	250	0.6	<2	3.27	0.7	11	24	31	2.99
CC62905		0.05	0.004	0.3	1.14	12	<10	340	0.5	<2	2.52	<0.5	8	21	30	2.59
CC62906		0.21	0.004	0.2	1.27	19	<10	250	0.6	<2	3.26	<0.5	12	21	32	2.99
CC62907		0.17	0.002	<0.2	1.06	16	<10	200	0.6	<2	2.05	<0.5	10	19	21	2.86
CC62908		0.17	0.003	<0.2	1.18	17	<10	220	0.6	<2	2.82	0.6	10	21	31	2.87
CC62909		0.30	0.004	<0.2	1.13	14	<10	200	0.5	<2	3.65	0.5	10	21	28	2.63
CC62910		0.14	0.003	<0.2	1.09	16	<10	150	0.5	<2	6.33	0.7	7	16	12	2.00
CC62911		0.13	0.003	<0.2	0.55	13	<10	120	<0.5	<2	10.05	<0.5	5	9	11	1.22
CC62912		0.11	0.008	<0.2	1.34	14	<10	290	<0.5	<2	3.51	0.7	12	22	22	2.76
CC62913		0.09	0.004	0.3	2.51	30	<10	400	0.7	<2	0.39	<0.5	28	41	13	4.97
CC62914		0.11	0.014	0.3	1.38	27	<10	350	0.5	<2	1.51	<0.5	20	24	20	3.88
CC62915		0.12	0.002	<0.2	1.12	7	<10	300	<0.5	<2	2.78	1.0	8	15	14	2.20
CC62916		0.13	0.006	<0.2	1.03	26	<10	160	0.5	<2	5.27	0.8	7	16	12	2.03
CC62917		0.11	0.004	0.3	2.28	34	<10	330	0.9	<2	0.71	0.7	13	36	17	3.64
CC62918		0.17	0.003	<0.2	0.80	13	<10	140	<0.5	<2	8.20	0.5	6	14	16	1.77
CC62919		0.16	0.007	0.2	1.39	14	<10	420	0.6	<2	2.90	0.8	12	39	42	2.69
CC62920		0.09	0.003	0.2	1.47	19	<10	430	0.7	<2	1.60	0.8	10	28	28	2.98
CC62921		0.13	0.005	0.4	1.16	16	<10	300	0.5	<2	6.55	0.5	8	20	27	2.14
CC62922		0.16	0.007	0.2	1.79	19	<10	470	0.8	<2	1.44	1.0	14	30	45	3.57
CC62923		0.13	0.003	0.3	1.35	18	<10	440	0.6	<2	2.56	0.9	10	25	30	2.87

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62884		10	1	0.06	10	0.59	429	1	0.02	15	390	23	0.04	2	3	13
CC62885		<10	1	0.09	10	0.59	667	1	0.02	16	830	21	0.09	3	2	17
CC62886		<10	1	0.06	10	0.45	264	1	0.01	10	370	21	0.06	3	2	12
CC62887		<10	1	0.10	10	0.53	470	1	0.02	15	300	25	0.04	2	3	14
CC62888		10	<1	0.09	10	0.70	342	1	0.02	18	420	22	0.05	5	3	15
CC62889		10	<1	0.11	20	0.64	508	1	0.01	28	300	39	0.03	3	6	13
CC62890		10	1	0.10	10	0.60	561	1	0.02	16	570	27	0.07	2	3	15
CC62891		<10	1	0.10	10	0.78	584	1	0.02	25	540	24	0.06	3	4	14
CC62892		10	1	0.08	10	1.75	889	<1	0.02	15	780	26	0.11	<2	1	21
CC62893		<10	1	0.09	10	1.88	922	<1	0.02	17	580	52	0.06	<2	2	19
CC62894		<10	<1	0.14	10	1.24	501	1	0.02	22	780	31	0.07	<2	2	24
CC62895		<10	<1	0.11	10	0.65	575	<1	0.02	21	740	27	0.07	<2	2	26
CC62896		<10	1	0.12	10	0.59	583	<1	0.02	23	770	27	0.08	<2	2	27
CC62897																
CC62898		<10	<1	0.15	10	1.20	516	<1	0.02	24	880	23	0.03	<2	3	32
CC62899		<10	<1	0.13	10	2.28	753	1	0.02	27	880	25	0.02	<2	3	36
CC62900		<10	1	0.16	10	1.53	618	1	0.02	28	880	30	0.03	<2	4	34
CC62901		<10	1	0.16	10	2.16	611	1	0.02	26	860	29	0.03	<2	3	38
CC62902		<10	1	0.14	10	0.71	469	1	0.02	22	810	23	0.07	<2	3	43
CC62903		<10	1	0.19	10	2.09	687	1	0.02	28	850	30	0.02	<2	4	53
CC62904		<10	<1	0.18	10	1.95	644	1	0.02	29	900	35	0.03	<2	3	45
CC62905		<10	1	0.14	10	0.67	510	1	0.02	23	860	23	0.11	<2	2	44
CC62906		<10	<1	0.18	10	1.80	822	1	0.02	25	860	34	0.04	<2	3	41
CC62907		<10	<1	0.10	10	1.33	594	1	0.01	20	630	28	0.02	<2	3	26
CC62908		<10	<1	0.16	10	1.70	842	1	0.02	25	830	29	0.02	<2	3	35
CC62909		<10	<1	0.14	10	2.27	531	1	0.02	23	850	25	0.02	<2	3	37
CC62910		<10	1	0.07	10	3.79	810	<1	0.02	11	860	21	0.08	<2	1	19
CC62911		<10	1	0.06	<10	6.54	644	<1	0.02	7	780	12	0.06	<2	1	28
CC62912		<10	<1	0.11	10	2.01	460	<1	0.02	23	870	20	0.07	<2	3	27
CC62913		10	<1	0.16	20	0.96	488	<1	0.02	29	410	26	0.02	<2	5	18
CC62914		<10	1	0.13	10	0.66	487	<1	0.01	31	990	22	0.08	<2	3	29
CC62915		<10	<1	0.08	10	1.49	1010	<1	0.02	9	1280	16	0.11	<2	1	13
CC62916		<10	<1	0.09	10	3.03	645	<1	0.02	15	740	27	0.07	<2	2	18
CC62917		10	<1	0.11	20	0.77	505	<1	0.02	28	340	42	0.02	<2	5	13
CC62918		<10	<1	0.11	10	5.35	337	<1	0.02	14	700	15	0.02	<2	2	33
CC62919		<10	1	0.14	10	1.64	589	<1	0.02	30	970	31	0.06	<2	3	27
CC62920		<10	<1	0.16	10	0.81	611	<1	0.02	29	890	32	0.07	<2	3	23
CC62921		<10	<1	0.12	10	4.31	556	<1	0.02	21	820	30	0.04	<2	2	28
CC62922		<10	<1	0.22	20	1.10	839	1	0.02	40	1030	42	0.03	<2	5	32
CC62923		<10	<1	0.15	10	1.46	600	<1	0.02	29	880	36	0.06	<2	3	28

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Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62884		<20	0.03	<10	<10	65	<10	121
CC62885		<20	0.03	<10	<10	55	<10	140
CC62886		<20	0.04	<10	<10	67	<10	127
CC62887		<20	0.03	<10	<10	64	<10	238
CC62888		<20	0.03	<10	<10	65	<10	122
CC62889		<20	0.03	<10	<10	70	<10	196
CC62890		<20	0.02	<10	<10	53	<10	153
CC62891		<20	0.03	<10	<10	63	<10	134
CC62892		<20	0.01	<10	<10	39	<10	233
CC62893		<20	0.02	<10	<10	48	<10	322
CC62894		<20	0.01	<10	<10	44	<10	205
CC62895		<20	0.01	<10	<10	39	<10	154
CC62896		<20	0.01	<10	<10	39	<10	152
CC62897								
CC62898		<20	0.03	<10	<10	40	<10	127
CC62899		<20	0.03	<10	<10	38	<10	142
CC62900		<20	0.03	<10	<10	41	<10	160
CC62901		<20	0.02	<10	<10	37	<10	158
CC62902		<20	0.02	<10	<10	34	<10	126
CC62903		<20	0.02	<10	<10	40	<10	149
CC62904		<20	0.02	<10	<10	38	<10	175
CC62905		<20	0.01	<10	<10	34	<10	116
CC62906		<20	0.01	<10	<10	37	<10	147
CC62907		<20	0.02	<10	<10	35	<10	114
CC62908		<20	0.02	<10	<10	37	<10	133
CC62909		<20	0.02	<10	<10	35	<10	142
CC62910		<20	0.01	<10	<10	32	<10	192
CC62911		<20	0.01	<10	<10	19	<10	74
CC62912		<20	0.03	<10	<10	47	<10	164
CC62913		<20	0.07	<10	<10	93	<10	302
CC62914		<20	0.03	<10	<10	50	<10	184
CC62915		<20	0.02	<10	<10	36	<10	147
CC62916		<20	0.02	<10	<10	34	<10	169
CC62917		<20	0.02	<10	<10	68	<10	223
CC62918		<20	0.02	<10	<10	29	<10	94
CC62919		<20	0.02	<10	<10	44	<10	181
CC62920		<20	0.02	<10	<10	46	<10	192
CC62921		<20	0.02	<10	<10	40	<10	142
CC62922		<20	0.03	<10	<10	57	<10	199
CC62923		<20	0.02	<10	<10	44	<10	203

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62924		0.15	0.005	0.2	1.44	17	<10	470	0.6	<2	2.10	0.9	10	25	32	2.93
CC62925		0.16	0.005	0.2	1.34	12	<10	350	0.6	<2	4.00	0.8	10	24	29	2.69
CC62926		0.15	0.006	0.2	1.47	20	<10	390	0.7	2	2.46	0.9	10	27	33	2.84
CC62927		0.22	0.005	0.3	1.43	18	<10	310	0.6	<2	1.92	0.9	12	26	30	3.01
CC62928		0.22	0.007	0.2	1.25	19	<10	290	0.5	<2	2.88	0.9	10	24	29	2.76
CC62929		0.12	0.004	0.2	1.24	18	<10	340	0.6	4	2.55	1.2	10	23	30	2.87
CC62930		0.18	0.003	<0.2	0.96	17	<10	310	<0.5	2	5.44	0.9	7	20	23	2.37
CC62931		0.18	0.005	<0.2	1.21	18	<10	300	0.5	2	3.98	0.8	9	25	25	2.73
CC62932		0.14	0.003	0.3	1.54	27	<10	250	0.6	3	2.56	1.0	10	31	17	3.76
CC62933		0.19	0.005	<0.2	1.27	19	<10	250	0.6	4	2.57	0.8	10	25	25	3.09
CC62934		0.15	0.002	0.3	1.19	18	<10	310	0.5	4	4.58	0.7	8	24	25	2.86
CC62935		0.16	0.002	<0.2	0.73	18	<10	250	<0.5	3	9.09	<0.5	14	15	17	3.52
CC62936		0.12	0.001	<0.2	1.00	33	<10	2630	0.5	4	10.70	0.6	10	18	10	3.47
CC62937		0.16	0.004	0.4	1.73	19	<10	440	0.6	3	4.19	0.9	12	52	26	3.42
CC62938		0.12	0.001	<0.2	1.76	19	<10	230	0.7	5	1.53	1.4	10	34	20	3.45
CC62939		0.15	0.004	0.2	2.40	19	<10	550	<0.5	4	5.37	1.1	29	123	48	5.30
CC62940		0.14	0.003	<0.2	1.31	22	<10	230	0.5	2	7.59	1.4	6	18	10	2.05
CC62941		0.11	0.005	0.2	1.62	19	<10	440	0.6	4	5.24	2.1	9	37	18	2.97
CC62942		0.07	0.003	<0.2	2.12	16	<10	370	1.0	3	1.96	1.6	14	35	10	5.40
CC62943		0.18	0.003	<0.2	0.90	11	<10	180	<0.5	<2	13.8	0.5	12	17	13	3.20
CC62944		0.04	NSS	<0.2	0.96	11	<10	370	<0.5	<2	3.38	<0.5	11	28	24	2.85
CC62945		0.09	0.005	0.3	1.13	16	<10	520	<0.5	4	2.57	0.7	13	24	29	3.17
CC62946		0.17	0.004	<0.2	1.10	15	<10	510	<0.5	4	2.99	0.9	14	25	30	2.92
CC62947		0.25	0.004	<0.2	1.35	23	<10	290	0.6	4	4.55	0.9	9	24	30	2.84
CC62948		0.12	0.007	0.4	1.50	23	<10	560	0.7	4	2.66	0.7	10	28	28	2.93
CC62949		0.15	0.006	0.3	1.06	16	<10	290	0.5	3	3.90	0.8	8	21	22	2.34
CC62950		0.11	0.012	<0.2	0.89	22	<10	290	<0.5	3	3.28	0.6	6	17	14	2.26
CC62951		0.12	0.006	1.4	1.12	63	<10	610	0.5	8	4.08	2.6	9	15	37	3.29
CC62952		0.08	0.004	<0.2	1.79	19	<10	570	0.7	4	1.33	0.7	8	27	11	2.92
CC62953		0.07	NSS	<0.2	1.20	12	<10	210	<0.5	3	1.37	0.6	6	18	9	2.16
CC62954		0.04	0.003	<0.2	1.32	15	<10	190	0.5	3	2.08	0.9	6	18	11	2.11
CC62955		0.10	0.008	<0.2	1.07	27	<10	560	0.5	5	4.84	0.8	6	19	19	2.08
CC62956		0.14	0.007	0.3	1.09	17	<10	470	0.5	3	1.76	1.0	8	20	21	2.23
CC62957		0.11	0.005	0.4	1.33	39	<10	390	0.6	2	2.16	1.0	9	25	26	2.86
CC62958		0.12	0.006	0.5	1.22	34	<10	400	0.6	3	2.68	1.4	8	22	26	2.71

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62924		10	<1	0.16	10	1.15	572	<1	0.02	30	970	40	0.05	<2	3	28
CC62925		<10	1	0.18	20	2.51	529	1	0.02	28	850	31	0.03	<2	3	36
CC62926		<10	<1	0.15	10	1.50	823	1	0.02	30	940	36	0.05	2	3	29
CC62927		<10	<1	0.14	20	1.28	347	<1	0.02	30	890	32	0.03	<2	4	30
CC62928		<10	<1	0.15	10	1.78	691	1	0.02	27	910	33	0.03	<2	3	34
CC62929		10	<1	0.18	10	1.18	677	<1	0.03	29	920	32	0.05	2	3	42
CC62930		<10	1	0.14	10	2.98	658	<1	0.02	25	840	29	0.04	2	2	57
CC62931		<10	1	0.15	20	2.35	609	<1	0.02	29	870	24	0.02	<2	3	46
CC62932		10	1	0.16	20	1.67	669	1	0.02	32	740	39	0.04	<2	3	28
CC62933		<10	1	0.14	20	1.55	665	<1	0.02	31	1020	35	0.03	2	3	34
CC62934		<10	<1	0.13	20	2.41	650	<1	0.02	28	1010	33	0.08	2	2	43
CC62935		<10	1	0.24	20	5.50	539	<1	0.02	37	870	11	0.10	2	2	106
CC62936		<10	1	0.07	20	6.88	836	3	0.04	41	580	23	0.08	3	3	68
CC62937		<10	<1	0.12	10	2.95	773	<1	0.03	44	870	36	0.07	<2	4	33
CC62938		<10	1	0.11	10	0.99	600	<1	0.02	35	420	31	0.04	2	4	19
CC62939		10	1	0.18	10	4.89	1510	<1	0.02	123	650	61	0.10	5	7	41
CC62940		<10	1	0.06	20	5.12	1670	<1	0.02	19	590	77	0.06	<2	2	36
CC62941		<10	<1	0.13	20	3.41	1500	<1	0.03	32	680	56	0.05	<2	3	33
CC62942		<10	<1	0.19	20	0.92	1525	<1	0.02	28	620	46	0.09	2	5	34
CC62943		<10	<1	0.21	20	2.01	538	<1	0.02	32	720	17	0.05	<2	3	478
CC62944		<10	<1	0.13	10	0.66	898	<1	0.02	32	780	17	0.14	<2	2	100
CC62945		<10	<1	0.17	10	0.73	779	<1	0.02	36	1070	27	0.14	<2	2	56
CC62946		<10	<1	0.12	10	1.10	1130	1	0.02	39	1230	29	0.10	2	2	39
CC62947		<10	<1	0.15	20	2.95	658	1	0.03	32	890	31	0.02	2	3	39
CC62948		<10	1	0.13	10	1.50	678	1	0.02	36	930	39	0.06	<2	3	28
CC62949		10	<1	0.10	10	2.34	504	<1	0.02	25	880	31	0.03	<2	3	33
CC62950		<10	<1	0.11	10	1.71	535	<1	0.02	20	720	49	0.07	2	2	22
CC62951		<10	1	0.08	10	2.43	579	<1	0.02	32	790	140	0.05	9	2	25
CC62952		<10	<1	0.07	10	0.69	507	<1	0.02	19	480	47	0.05	<2	3	16
CC62953		10	<1	0.07	10	0.68	333	<1	0.01	12	720	28	0.08	<2	2	13
CC62954		<10	1	0.07	10	0.74	358	<1	0.02	13	600	26	0.09	<2	2	16
CC62955		<10	<1	0.07	10	2.83	589	<1	0.02	21	880	33	0.07	2	2	28
CC62956		<10	1	0.06	10	0.54	651	<1	0.02	22	850	41	0.08	<2	2	19
CC62957		10	<1	0.09	10	1.24	649	<1	0.02	30	930	44	0.05	<2	3	25
CC62958		<10	<1	0.08	10	1.42	745	<1	0.02	26	940	58	0.06	2	2	26

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC62924		<20	0.01	<10	<10	42	<10	224
CC62925		<20	0.02	<10	<10	41	<10	200
CC62926		<20	0.02	<10	<10	45	<10	219
CC62927		<20	0.02	<10	<10	45	<10	182
CC62928		<20	0.02	<10	<10	38	<10	171
CC62929		<20	0.02	<10	<10	37	<10	211
CC62930		<20	0.02	<10	<10	30	<10	177
CC62931		<20	0.02	<10	<10	39	<10	140
CC62932		<20	0.02	<10	<10	46	<10	199
CC62933		<20	0.02	<10	<10	43	<10	170
CC62934		<20	0.01	<10	<10	36	<10	184
CC62935		<20	0.01	<10	<10	21	<10	106
CC62936		<20	0.01	<10	<10	41	<10	268
CC62937		<20	0.02	<10	<10	52	<10	238
CC62938		<20	0.02	<10	<10	54	<10	204
CC62939		<20	0.05	<10	<10	56	<10	445
CC62940		<20	0.02	<10	<10	46	<10	613
CC62941		<20	0.02	<10	<10	47	<10	422
CC62942		<20	0.03	<10	<10	71	<10	317
CC62943		<20	0.01	<10	<10	22	<10	102
CC62944		<20	0.03	<10	<10	30	<10	135
CC62945		<20	0.01	<10	<10	32	<10	216
CC62946		<20	0.02	<10	<10	34	<10	215
CC62947		<20	0.02	<10	<10	43	<10	182
CC62948		<20	0.02	<10	<10	51	<10	207
CC62949		<20	0.02	<10	<10	38	<10	166
CC62950		<20	0.01	<10	<10	41	<10	161
CC62951		<20	0.01	<10	<10	38	<10	496
CC62952		<20	0.02	<10	<10	59	<10	173
CC62953		<20	0.02	<10	<10	42	<10	212
CC62954		<20	0.02	<10	<10	39	<10	138
CC62955		<20	0.02	<10	<10	36	<10	221
CC62956		<20	0.02	<10	<10	36	<10	196
CC62957		<20	0.02	<10	<10	43	<10	298
CC62958		<20	0.02	<10	<10	40	<10	288

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 9-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087126

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE VO09087125

Project: RAU

P.O. No.:

This report is for 34 Rock samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087125

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
C488072		0.87	<0.01	0.36	0.12	7	4100	0.23	0.58	23.3	14.95	8.38	25.5	2	0.48	2.5
C488073		1.31	0.01	0.04	3.67	71.3	50	5.94	0.54	2.10	0.04	111.5	16.8	78	10.95	43.2
C488074		0.68	0.84	25.0	1.09	>10000	1030	0.20	1460	0.85	8.29	13.25	1.8	38	2.20	593
C488075		1.97	0.01	0.12	0.89	14.1	150	0.10	1.19	3.91	0.06	19.50	24.2	34	0.10	88.8
C488076		0.57	<0.01	0.14	0.26	13	230	0.11	0.15	30.9	2.48	20.7	1.5	8	0.17	2.3
C488077		0.11	0.21	11.15	0.04	5220	230	<0.05	38.8	15.50	5.06	97.2	1.2	6	0.05	35.8
C488078		0.14	0.05	1.28	1.71	426	1060	0.94	3.73	0.99	4.05	226	112.0	22	0.89	353
C488079		0.50	1.20	49.1	0.02	>10000	3320	<0.05	195.5	0.25	33.3	52.3	1.9	6	<0.05	65.7
C488080		0.68	0.01	2.77	0.03	177	1820	0.07	0.82	24.5	6.60	5.54	0.6	2	0.20	2.6
C488081		0.19	<0.01	2.48	0.05	145	3130	0.17	0.50	30.2	31.8	2.69	3.6	1	<0.05	9.8
C488082		0.37	0.01	2.33	0.08	260	110	0.09	0.10	29.6	4.05	2.00	38.0	10	<0.05	3.8
C488083		0.24	0.69	9.40	0.06	8860	180	<0.05	324	0.44	11.95	0.57	0.4	63	<0.05	8.4
C488084		0.57	0.02	1.88	0.18	769	170	13.35	595	0.64	8.28	4.74	15.0	11	0.15	4570
C488085		0.10	<0.01	0.26	0.15	1155	90	69.4	3.53	3.21	4.21	14.25	33.1	<1	0.08	28.4
C488086		0.04	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488087		1.82	<0.01	0.74	0.31	5.1	60	5.20	7.59	7.48	0.10	1.08	43.7	9	0.57	1350
C488088		0.65	<0.01	2.81	0.08	31.9	20	0.35	13.35	0.86	17.50	3.18	2.8	<1	0.06	991
C488089		0.05	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488090		1.87	0.06	1.25	1.18	812	770	1.14	1.62	0.27	7.81	29.8	84.6	46	0.38	104.5
C488091		2.49	0.09	0.98	5.58	434	6530	1.96	6.15	0.47	7.68	42.7	119.0	150	1.73	80.3
C488092		0.54	0.01	45.3	3.35	367	>10000	1.32	3.58	0.42	6.14	110.0	472	<1	0.92	157.0
C488093		0.16	0.03	17.45	0.06	3310	200	0.08	109.5	0.19	8.70	1.48	61.9	25	<0.05	4.1
C488094		0.34	0.04	1.11	0.34	162.5	120	0.23	0.45	0.19	2.00	7.90	90.8	2	<0.05	43.6
C488095		0.03	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488096		0.25	0.08	1.28	6.73	512	2920	1.65	4.17	0.78	5.23	105.0	96.5	218	2.12	190.5
C488097		1.86	0.13	13.75	0.03	3500	80	<0.05	511	0.16	6.07	1.25	10.3	3	<0.05	8.0
H237970		0.67	<0.01	1.62	0.43	56.5	120	0.20	1.48	0.13	2.38	31.3	18.3	11	<0.05	33.9
H237971		0.06	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
H237972		0.39	0.23	3.02	2.51	5910	2590	0.43	35.1	0.24	15.85	70.2	20.5	56	0.54	151.5
H237973		0.68	0.37	4.33	0.88	5080	380	0.39	48.8	0.56	12.35	31.2	24.3	19	<0.05	139.5
H237974		1.29	0.04	2.79	0.19	2850	110	0.87	48.8	0.23	14.95	8.29	12.4	7	0.09	45.5
H237975		2.82	0.05	6.13	0.06	234	3450	0.11	1.69	27.5	17.65	13.40	1.4	<1	<0.05	4.9
H237976		0.10	0.07	1.14	0.06	691	100	0.32	41.7	14.75	3.55	4.28	29.7	1	<0.05	94.9
H237977		0.09	0.02	0.67	0.05	244	70	0.35	0.18	6.62	3.08	1.81	10.3	<1	<0.05	197.5

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087125

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C488072		6.18	2.32	0.07	<0.1	8.62	0.07	8.0	0.6	1.70	70100	9.67	0.04	0.2	25.3	10
C488073		19.20	22.9	0.27	0.7	0.068	2.84	42.4	48.9	1.85	279	0.71	<0.01	7.3	16.5	6430
C488074		47.7	9.11	<0.05	1.1	1.800	0.30	7.2	3.1	0.16	161	29.4	0.03	2.4	17.7	1990
C488075		>50	16.70	1.57	0.1	0.011	0.02	12.0	0.9	0.07	46	1.21	0.58	3.0	75.9	2290
C488076		2.35	0.70	0.07	0.1	0.023	0.13	14.7	1.6	0.33	2730	0.46	<0.01	0.6	<0.2	50
C488077		23.2	0.47	0.25	<0.1	0.080	<0.01	67.7	0.3	0.21	102	7.17	<0.01	0.3	11.6	390
C488078		46.4	15.00	0.62	0.3	0.066	0.40	131.0	5.4	0.31	521	106.0	<0.01	1.5	242	6180
C488079		>50	0.49	0.63	<0.1	0.114	0.01	34.6	<0.2	0.06	14	18.30	0.03	0.4	22.1	330
C488080		5.31	0.80	0.09	<0.1	6.30	0.01	3.5	1.4	2.57	22500	2.32	0.01	0.1	9.1	230
C488081		4.14	1.12	0.07	<0.1	1.275	0.01	1.7	0.3	1.71	21500	2.40	0.02	0.1	38.1	290
C488082		8.60	0.29	0.10	<0.1	0.012	0.02	1.0	0.2	0.65	103	1.33	<0.01	0.3	146.0	640
C488083		>50	0.54	0.46	<0.1	0.013	0.02	0.7	0.3	0.25	65	3.33	<0.01	0.2	9.6	1100
C488084		>50	3.17	1.37	<0.1	2.44	0.04	4.6	1.5	0.47	334	26.8	<0.01	0.4	74.1	310
C488085		45.2	8.40	2.23	0.1	0.061	0.02	14.7	0.6	1.84	490	9.78	<0.01	0.3	2190	1060
C488086		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488087		23.7	4.03	0.42	0.2	0.796	0.04	0.5	5.4	2.54	3130	3.23	0.06	0.5	50.9	580
C488088		>50	2.02	1.04	<0.1	2.16	0.01	3.3	0.8	1.26	338	104.0	<0.01	0.4	89.8	190
C488089		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488090		49.7	3.15	0.84	0.7	0.011	0.39	14.4	1.9	0.22	71	3.33	0.01	0.9	354	2360
C488091		35.9	16.60	0.58	2.1	0.015	1.84	23.2	13.4	0.47	109	1.11	0.10	2.0	568	4800
C488092		30.4	12.00	0.58	0.9	0.129	0.63	48.4	4.2	0.44	>100000	25.4	0.38	2.2	113.0	6780
C488093		>50	1.08	0.86	<0.1	0.008	0.01	0.8	0.3	0.30	378	5.17	<0.01	0.5	299	1010
C488094		38.3	0.73	0.35	0.1	0.019	0.02	3.1	0.8	0.05	79	2.51	<0.01	0.3	709	4770
C488095		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488096		31.3	11.30	0.39	5.9	0.060	2.78	57.5	12.3	0.66	139	4.54	0.07	3.6	552	5080
C488097		>50	0.36	0.96	<0.1	0.031	0.01	0.5	0.2	0.20	<5	34.0	<0.01	0.5	63.8	1010
H237970		12.70	3.40	0.25	0.1	0.047	0.01	11.8	0.3	0.12	260	0.43	<0.01	0.2	45.5	3450
H237971		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
H237972		47.4	8.86	0.76	2.5	1.295	1.03	40.4	2.7	0.23	93	13.40	0.01	3.1	94.2	1930
H237973		>50	4.86	0.71	0.1	0.307	0.03	17.2	0.5	0.21	146	11.35	<0.01	0.4	73.1	4480
H237974		>50	4.09	0.89	<0.1	0.288	0.03	4.1	0.4	0.17	523	14.80	<0.01	0.4	201	1350
H237975		6.95	2.00	0.11	<0.1	6.79	0.02	7.7	0.5	0.69	38900	3.61	0.02	0.2	22.1	430
H237976		30.9	1.42	0.35	<0.1	0.034	0.02	2.6	0.4	1.25	483	3.40	<0.01	0.3	120.0	780
H237977		47.7	1.25	0.86	<0.1	<0.005	0.01	1.0	0.2	0.42	1560	9.05	<0.01	0.3	109.5	840

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087125

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
C488072		383	2.9	<0.002	0.01	2.01	0.4	1	0.6	196.5	<0.05	<0.05	0.2	<0.005	9.41	5.2
C488073		37.0	100.5	<0.002	>10.0	3.74	6.4	1	0.6	29.9	0.23	0.13	4.7	0.071	1.07	0.6
C488074		671	15.2	<0.002	0.07	51.0	4.7	13	203	32.6	0.15	21.8	2.2	0.041	0.28	10.2
C488075		4.7	0.5	<0.002	0.17	0.31	2.0	1	0.3	45.4	0.16	0.37	0.9	0.071	<0.02	0.4
C488076		6.2	3.8	<0.002	0.01	2.58	5.4	1	0.8	42.1	<0.05	<0.05	1.0	0.014	0.54	0.8
C488077		1240	0.2	<0.002	0.05	19.00	0.2	3	3.9	5.5	<0.05	2.06	<0.2	<0.005	0.03	2.5
C488078		183.0	12.3	<0.002	0.43	21.7	3.0	4	1.0	175.5	0.08	0.07	6.7	0.024	1.42	22.8
C488079		4350	0.4	<0.002	0.15	37.4	<0.1	10	6.7	12.0	<0.05	3.65	<0.2	<0.005	0.09	8.0
C488080		53.0	0.5	<0.002	0.01	4.23	0.2	1	0.2	30.3	<0.05	<0.05	<0.2	<0.005	0.18	1.2
C488081		2220	0.1	<0.002	0.01	5.06	0.6	1	<0.2	11.9	<0.05	<0.05	<0.2	<0.005	1.71	0.8
C488082		38.4	1.0	<0.002	0.01	8.89	1.8	1	<0.2	4.7	<0.05	<0.05	<0.2	0.005	0.07	0.6
C488083		75.5	0.4	<0.002	0.03	83.2	0.1	5	0.8	4.4	<0.05	1.00	<0.2	<0.005	0.03	2.4
C488084		814	6.0	0.004	0.02	57.9	0.6	12	65.0	4.9	<0.05	1.37	<0.2	<0.005	0.33	14.2
C488085		1200	1.6	0.010	0.04	616	0.4	1	0.8	13.9	<0.05	<0.05	<0.2	<0.005	0.41	12.1
C488086		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488087		4.9	4.5	0.018	9.92	0.35	0.6	59	1.9	5.7	<0.05	0.22	0.5	0.012	0.06	4.9
C488088		65.7	0.7	0.006	0.24	51.7	0.2	114	3.6	1.9	<0.05	1.14	<0.2	<0.005	0.09	32.8
C488089		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488090		137.0	10.1	<0.002	0.02	34.1	5.9	2	0.4	5.4	0.05	<0.05	0.7	0.020	0.27	4.4
C488091		19.8	50.4	<0.002	0.01	8.47	9.0	1	2.0	34.3	0.12	<0.05	2.0	0.070	0.97	2.7
C488092		1800	13.8	<0.002	0.03	27.1	12.6	2	0.4	24.6	0.13	0.05	6.4	0.042	51.1	5.7
C488093		88.3	0.5	<0.002	0.04	21.5	0.1	10	<0.2	3.4	<0.05	0.17	<0.2	<0.005	0.23	3.4
C488094		10.1	0.5	<0.002	0.01	1.94	3.4	1	<0.2	3.3	<0.05	0.05	<0.2	<0.005	0.07	2.1
C488095		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
C488096		315	93.6	<0.002	0.02	47.2	17.2	1	2.2	23.1	0.20	0.21	5.9	0.104	1.18	16.4
C488097		433	0.4	<0.002	0.02	23.7	0.1	8	0.3	2.5	<0.05	0.52	<0.2	<0.005	0.10	15.1
H237970		114.0	0.4	<0.002	0.02	2.06	0.9	1	0.2	9.2	<0.05	0.05	3.8	<0.005	0.41	1.0
H237971		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
H237972		1120	21.3	<0.002	0.03	22.7	5.1	2	4.8	8.0	0.16	0.67	2.9	0.066	0.48	15.2
H237973		4670	1.4	<0.002	0.04	33.5	0.7	3	12.3	123.5	<0.05	2.66	<0.2	<0.005	0.09	6.7
H237974		2880	1.1	<0.002	0.03	45.7	0.4	11	1.7	2.2	<0.05	0.18	<0.2	<0.005	0.41	11.2
H237975		286	0.6	<0.002	<0.01	6.56	0.6	<1	0.2	15.8	<0.05	<0.05	<0.2	<0.005	0.02	2.3
H237976		330	0.4	<0.002	0.02	27.9	0.3	4	0.3	7.6	<0.05	0.42	<0.2	<0.005	0.03	2.5
H237977		681	0.2	<0.002	0.01	17.50	0.2	1	0.9	2.8	<0.05	0.14	<0.2	<0.005	0.04	3.2

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087125

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
	Analyte	V	W	Y	Zn	Zr	Zn
	Units	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	0.001
C488072		<1	0.2	3.3	>10000	2.0	1.495
C488073		46	2.2	28.6	36	17.6	
C488074		69	29.7	2.9	1730	36.7	
C488075		157	1.6	9.7	74	1.7	
C488076		10	1.2	6.8	884	4.1	
C488077		54	3.5	1.6	2220	<0.5	
C488078		283	4.3	36.8	335	10.5	
C488079		14	2.4	2.7	>10000	0.6	1.245
C488080		111	1.0	3.7	2270	<0.5	
C488081		76	3.2	3.6	2640	0.6	
C488082		103	1.1	4.5	1560	0.9	
C488083		121	20.7	3.5	1940	0.6	
C488084		38	510	6.9	5180	2.0	
C488085		49	1450	57.5	>10000	4.7	2.04
C488086		NSS	NSS	NSS	NSS	NSS	
C488087		64	23.8	4.8	134	5.4	
C488088		29	17.8	11.9	6260	1.1	
C488089		NSS	NSS	NSS	NSS	NSS	
C488090		232	3.6	43.7	8340	24.6	
C488091		187	3.9	42.3	2510	80.7	
C488092		153	12.1	45.8	7030	33.3	
C488093		127	1.3	1.5	5870	0.9	
C488094		34	0.3	15.1	1640	4.3	
C488095		NSS	NSS	NSS	NSS	NSS	
C488096		251	3.5	28.3	5520	187.5	
C488097		90	1.0	1.2	3940	0.6	
H237970		59	1.4	24.7	423	3.1	
H237971		NSS	NSS	NSS	NSS	NSS	
H237972		203	4.3	9.5	4980	98.9	
H237973		482	12.2	34.1	4450	2.3	
H237974		456	31.4	5.5	8700	1.9	
H237975		60	2.8	6.0	2860	0.9	
H237976		95	3.8	3.9	4410	1.9	
H237977		183	0.3	2.8	2950	1.6	

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087125

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

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Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE VO09087124

Project: RAU

P.O. No.: Batch 27

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087124

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884535		3.33	0.03	0.19	0.28	351	110	0.12	0.18	34.6	0.92	4.50	1.5	6	0.71	4.1
H884536		3.09	0.01	0.12	0.87	36	270	0.30	0.26	26.4	0.15	29.2	31.8	41	0.61	35.2
H884537		4.88	0.02	0.18	9.53	50.4	1730	2.13	0.22	6.58	0.10	75.7	63.8	382	16.50	81.6
H884538		5.67	0.01	0.18	12.80	38.1	2350	3.21	0.13	1.98	0.02	111.5	50.2	346	27.0	25.4
H884539		5.21	<0.01	0.14	6.94	11.2	320	1.65	0.54	7.74	0.06	80.7	45.7	224	8.71	65.0
H884540		0.24	0.44	0.81	0.82	5350	50	0.27	89.0	12.90	0.15	36.5	5.5	15	2.07	35.5
H884541		5.46	0.03	0.11	7.21	46.5	100	2.01	1.83	4.74	0.03	80.7	28.5	193	7.80	24.6
H884542		4.05	0.01	0.11	3.84	33	70	1.28	2.09	12.80	0.06	45.8	6.6	25	5.40	7.7
H884543		5.47	0.03	0.12	2.45	37	70	0.79	5.02	15.60	0.04	26.7	5.8	35	4.58	11.9
H884544		5.49	0.09	0.19	1.27	76	110	0.42	19.30	16.20	0.06	10.65	6.1	34	2.43	14.5
H884545		2.79	0.06	0.13	0.48	57	190	0.36	4.70	19.75	0.06	12.55	1.5	13	0.61	3.5
H884546		6.20	0.05	0.17	0.94	51	240	0.43	8.60	17.35	0.04	13.70	4.0	35	1.43	6.6
H884547		4.02	<0.01	0.12	0.09	<5	30	0.08	0.15	20.9	0.07	1.59	0.9	2	0.17	1.4
H884548		2.82	0.06	0.13	1.00	51	320	0.47	10.50	17.60	0.05	13.05	4.2	36	1.54	7.1
H884549		5.39	0.12	0.20	1.13	105	120	0.54	14.50	17.40	0.05	12.75	7.1	30	1.76	47.0
H884550		5.28	0.81	2.01	0.63	310	60	0.37	55.0	13.30	2.76	20.3	4.4	17	1.30	419
H884551		5.80	2.02	36.0	0.39	449	110	0.23	138.0	16.60	1.84	7.22	1.8	9	0.97	1935
H884552		4.67	0.05	0.70	0.27	203	60	0.17	49.2	12.20	0.22	6.31	1.5	10	1.29	192.0
H884553		3.06	0.03	0.28	0.52	174	130	0.27	9.71	16.80	0.38	8.06	1.9	16	3.46	29.7
H884554		2.64	0.08	0.43	0.70	261	180	0.34	15.20	13.80	0.91	11.20	5.1	29	5.03	46.3
H884555		3.36	0.18	1.22	2.43	2070	330	0.83	245	7.72	5.04	22.5	8.1	70	7.86	54.5
H884556		4.54	<0.01	0.08	0.11	<5	20	0.11	0.52	20.3	0.07	2.13	0.9	1	0.28	1.7
H884557		3.27	0.26	0.39	1.48	384	420	0.82	63.3	15.60	2.02	18.85	8.4	58	5.04	44.4
H884558		5.35	0.02	0.28	0.32	222	70	0.12	517	18.65	1.59	13.60	2.6	8	0.26	6.7
H884559		4.73	0.01	0.16	0.15	113	140	0.15	3.55	18.50	1.46	8.86	1.2	4	0.25	2.3
H884560		4.02	0.10	0.19	0.20	165	50	0.16	4.68	17.80	0.99	11.40	1.5	5	1.54	2.8
H884561		3.60	0.03	0.23	2.18	87	120	0.59	59.9	16.25	0.04	22.8	7.1	50	24.4	8.6
H884562		5.49	0.03	0.31	0.72	269	30	0.11	503	16.00	<0.02	33.9	3.8	15	5.15	5.2
H884563		4.58	0.03	0.16	0.55	96	40	0.24	8.70	18.10	0.02	11.20	3.2	20	2.82	3.4
H884564		0.24	5.52	0.25	0.13	>10000	30	0.05	458	8.69	0.06	39.7	1.7	13	0.77	42.2
H884565		3.46	0.03	0.05	0.11	256	30	0.07	37.9	7.46	0.16	11.10	1.2	19	0.47	2.7
H884566		6.08	0.10	0.14	1.77	354	20	0.62	78.4	1.17	0.19	12.00	7.2	33	2.24	4.4
H884567		4.50	0.02	0.34	7.27	204	360	2.33	727	4.82	0.07	76.2	24.2	47	29.0	15.7
H884568		7.37	0.01	0.22	1.24	31	140	0.49	1.80	20.0	0.87	10.30	1.7	16	2.26	11.0
H884569		2.73	0.03	0.13	2.84	349	450	1.07	17.65	16.85	0.54	30.4	7.6	39	4.51	27.3
H884570		4.39	0.06	0.44	1.75	218	230	0.72	9.02	15.20	4.27	26.0	9.3	20	6.18	19.8

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087124

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884535		1.07	0.81	0.05	0.1	0.01	0.007	0.10	4.3	1.1	0.40	317	0.21	<0.01	0.9	2.3
H884536		3.60	2.42	0.09	0.6	0.01	0.025	0.38	13.2	3.5	4.25	2830	0.56	<0.01	6.7	25.4
H884537		10.15	24.4	0.22	0.5	0.01	0.081	3.95	34.0	39.5	2.62	1540	0.75	0.20	36.5	339
H884538		11.35	35.0	0.27	0.3	0.01	0.104	4.24	58.0	46.1	1.78	1110	0.99	0.30	71.7	263
H884539		4.87	18.75	0.17	1.6	<0.01	0.061	3.38	44.5	26.5	3.55	1360	0.37	0.10	31.3	213
H884540		14.90	3.87	0.24	0.2	0.01	0.075	0.41	21.2	4.0	6.79	2030	17.40	0.01	3.3	20.7
H884541		7.20	21.0	0.21	1.8	<0.01	0.052	3.62	41.3	24.5	2.72	548	0.88	0.05	31.8	126.5
H884542		3.91	12.00	0.13	0.7	<0.01	0.021	1.84	27.6	14.6	7.50	898	0.44	0.02	22.8	23.4
H884543		3.55	8.48	0.10	0.8	<0.01	0.019	1.23	15.3	14.2	9.19	940	0.38	0.01	12.8	27.3
H884544		4.45	5.61	0.10	0.6	<0.01	0.041	0.62	5.7	10.2	9.25	1230	0.39	<0.01	5.2	26.6
H884545		2.87	2.33	0.09	0.3	<0.01	0.035	0.20	7.6	3.7	11.25	1340	0.18	<0.01	2.3	4.4
H884546		2.62	4.06	0.08	0.6	<0.01	0.021	0.46	8.0	5.9	10.10	1060	0.27	0.01	4.5	11.4
H884547		0.42	0.31	0.07	<0.1	<0.01	0.005	0.04	0.9	1.2	13.00	186	0.11	<0.01	0.3	0.8
H884548		2.66	4.42	0.09	0.7	<0.01	0.022	0.49	7.4	6.7	10.25	1040	0.25	0.01	4.9	12.0
H884549		4.31	5.21	0.11	0.8	0.01	0.022	0.52	7.5	9.0	10.25	1000	0.32	<0.01	5.8	19.6
H884550		7.52	3.29	0.16	0.4	0.02	0.101	0.26	11.2	3.7	7.44	2090	0.48	<0.01	2.1	16.0
H884551		5.29	2.07	0.12	0.3	0.06	0.172	0.13	4.4	2.3	9.94	1100	0.22	0.01	1.4	9.3
H884552		7.02	1.53	0.12	0.1	0.02	0.025	0.10	3.6	2.3	7.22	828	0.37	<0.01	0.7	7.0
H884553		5.75	2.80	0.11	0.3	0.01	0.017	0.29	4.7	4.1	10.25	987	0.17	0.01	2.2	7.8
H884554		7.24	3.74	0.14	0.5	0.01	0.021	0.42	6.8	5.3	9.79	966	0.51	<0.01	3.4	13.8
H884555		15.85	12.55	0.27	1.2	0.01	0.068	0.84	13.0	8.3	5.68	939	1.36	0.02	6.5	40.8
H884556		0.47	0.37	0.06	<0.1	<0.01	0.009	0.05	1.2	1.4	12.80	194	0.19	<0.01	0.5	1.1
H884557		6.29	5.90	0.12	0.9	0.01	0.034	0.62	10.7	8.8	10.50	1020	0.30	0.02	5.1	33.2
H884558		3.99	1.64	0.29	0.2	<0.01	<0.005	0.01	8.5	2.4	11.80	1050	<0.05	0.02	1.4	8.6
H884559		2.29	0.78	0.06	0.1	<0.01	0.018	0.01	6.3	1.9	11.60	811	0.12	<0.01	0.7	2.9
H884560		4.02	0.98	0.09	0.1	<0.01	0.012	0.10	8.4	2.9	11.30	605	0.15	<0.01	1.0	3.7
H884561		3.24	9.16	0.10	1.0	<0.01	0.009	1.75	13.7	11.2	10.40	627	0.33	0.03	9.3	38.1
H884562		5.51	3.76	0.29	0.6	<0.01	<0.005	0.36	21.7	3.8	9.90	691	0.28	0.02	3.7	11.8
H884563		3.18	2.79	0.06	0.4	<0.01	0.015	0.20	6.8	2.9	11.15	769	0.13	0.02	2.9	7.1
H884564		23.2	1.19	0.33	0.2	0.01	0.074	0.07	25.5	1.3	4.77	1420	10.90	<0.01	1.2	12.4
H884565		5.64	0.84	0.08	<0.1	<0.01	0.008	0.02	6.0	1.5	4.06	513	0.74	0.01	<0.1	3.5
H884566		10.90	10.80	0.13	0.7	0.01	0.010	0.90	4.9	4.6	0.78	148	1.37	0.02	3.6	24.9
H884567		10.50	26.6	0.27	3.4	<0.01	0.020	4.74	36.5	33.5	3.99	262	0.26	0.07	31.0	67.0
H884568		1.54	6.39	0.08	1.0	0.01	0.037	0.38	6.6	5.4	10.80	1580	0.42	0.04	7.7	2.6
H884569		3.31	13.40	0.11	1.8	0.01	0.048	1.10	23.5	10.7	7.09	1560	0.52	0.01	15.0	30.0
H884570		3.93	7.45	0.10	0.9	0.01	0.027	0.82	19.2	12.0	8.53	1350	0.39	<0.01	8.8	26.2

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

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087124

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884535		80	18.0	4.4	<0.002	0.02	0.83	0.9	2	0.2	89.9	0.05	0.08	0.3	0.025	0.06
H884536		630	5.7	9.1	<0.002	2.56	0.63	4.4	2	0.3	248	0.34	<0.05	1.7	0.126	0.13
H884537		1570	4.7	103.5	<0.002	0.28	0.42	32.1	2	2.1	160.5	2.17	<0.05	4.7	1.415	0.76
H884538		1230	3.8	121.0	<0.002	0.11	0.30	31.8	2	4.1	111.5	4.15	<0.05	8.3	1.875	1.37
H884539		1850	2.8	103.5	<0.002	1.94	0.44	20.7	1	2.0	120.5	1.79	<0.05	7.5	0.698	0.61
H884540		230	15.1	31.5	0.016	>10.0	4.63	1.9	6	3.2	88.6	0.19	0.19	0.8	0.092	0.28
H884541		1770	2.5	110.5	0.002	7.41	0.75	17.8	2	3.0	53.8	1.84	<0.05	9.2	0.564	0.77
H884542		870	3.5	68.2	<0.002	4.11	0.95	4.4	1	2.0	83.6	1.35	<0.05	4.1	0.247	0.49
H884543		480	2.6	46.2	<0.002	3.73	1.01	4.5	3	1.6	75.1	0.75	0.06	2.8	0.196	0.37
H884544		730	3.9	22.7	<0.002	4.47	3.57	4.1	4	0.9	78.0	0.29	0.09	1.2	0.109	0.23
H884545		220	4.2	7.3	<0.002	2.64	1.71	2.1	4	0.5	97.3	0.13	0.06	0.5	0.057	0.09
H884546		270	3.4	17.0	<0.002	2.44	3.12	3.0	3	1.1	83.6	0.26	0.08	0.8	0.133	0.17
H884547		220	1.5	1.1	<0.002	0.01	0.06	0.3	2	<0.2	54.6	<0.05	<0.05	0.5	<0.005	<0.02
H884548		280	3.5	18.9	<0.002	2.43	3.34	3.1	3	1.1	83.2	0.28	0.07	0.9	0.148	0.19
H884549		280	3.0	20.6	<0.002	4.58	19.60	3.1	5	1.1	85.3	0.32	0.10	1.0	0.159	0.28
H884550		180	76.7	15.3	0.002	6.84	68.5	2.3	8	4.6	86.8	0.11	0.11	0.6	0.056	0.32
H884551		150	73.3	14.9	<0.002	5.18	923	1.4	11	5.7	74.7	0.08	0.11	0.3	0.032	0.16
H884552		140	22.8	15.9	<0.002	6.30	19.75	1.3	8	0.8	45.9	<0.05	0.16	0.2	0.020	0.31
H884553		180	3.6	44.9	<0.002	5.48	3.83	1.7	5	0.8	65.1	0.12	0.07	0.5	0.065	0.46
H884554		210	3.8	47.9	<0.002	4.81	8.18	2.1	6	0.9	52.4	0.18	0.12	0.7	0.095	0.47
H884555		600	136.5	85.1	0.002	1.11	20.9	5.3	22	2.3	45.9	0.36	0.59	2.4	0.165	0.74
H884556		290	1.6	1.7	<0.002	0.02	0.16	0.3	2	<0.2	53.7	<0.05	0.06	<0.2	0.005	<0.02
H884557		360	8.3	59.1	<0.002	1.19	12.50	4.5	5	1.2	80.0	0.25	0.21	1.0	0.125	0.49
H884558		140	5.4	1.6	<0.002	2.01	13.45	2.0	4	3.3	87.2	0.10	1.49	0.3	0.034	0.03
H884559		80	3.2	1.8	<0.002	1.32	0.63	1.0	2	0.3	67.5	<0.05	0.09	0.3	0.014	0.04
H884560		80	3.9	19.1	<0.002	3.83	0.61	1.1	4	0.3	53.0	0.06	0.16	0.3	0.021	0.19
H884561		520	2.8	338	0.002	3.64	1.45	5.4	2	2.0	59.5	0.52	0.58	2.5	0.210	1.99
H884562		230	4.6	82.7	<0.002	6.54	6.85	2.1	4	3.7	55.1	0.22	0.98	1.3	0.071	0.53
H884563		160	1.9	37.1	<0.002	3.41	0.44	1.8	2	0.9	64.8	0.17	0.15	0.6	0.087	0.33
H884564		70	6.8	7.8	0.002	>10.0	24.0	0.4	9	2.2	63.3	0.07	1.26	0.4	0.008	0.16
H884565		50	7.5	3.7	0.003	6.03	0.99	0.8	5	0.3	39.4	<0.05	0.09	0.2	0.010	0.12
H884566		410	6.1	66.2	0.003	>10.0	2.04	2.7	7	3.2	9.4	0.19	0.21	0.9	0.132	0.38
H884567		1020	3.6	470	<0.002	>10.0	7.65	16.9	4	8.3	35.9	1.80	1.68	5.7	1.040	2.57
H884568		920	42.4	33.2	0.002	0.12	0.90	2.7	3	1.4	92.1	0.45	<0.05	1.6	0.162	0.48
H884569		2080	15.9	60.8	<0.002	0.05	2.95	5.7	3	2.6	75.9	0.90	0.08	3.5	0.311	0.69
H884570		760	52.6	57.8	0.005	0.77	2.73	4.3	3	1.5	69.8	0.53	0.08	1.8	0.222	1.25

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087124

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H884535		0.3	2	6.2	5.4	300	3.9	
H884536		0.9	30	0.7	18.3	23	23.4	
H884537		0.6	235	1.6	31.2	122	16.5	
H884538		0.6	208	1.5	29.7	101	11.8	
H884539		1.4	166	0.5	22.2	76	62.8	
H884540		0.5	16	63.0	7.6	34	9.5	
H884541		1.5	147	2.3	23.8	40	69.9	
H884542		0.4	38	2.3	14.3	30	23.0	
H884543		0.7	33	3.2	11.0	18	28.1	
H884544		0.7	31	1.9	9.1	20	25.4	
H884545		0.3	16	1.6	8.2	20	10.7	
H884546		0.7	27	4.1	7.8	16	21.6	
H884547		0.7	1	0.2	1.1	15	0.6	
H884548		0.8	26	8.5	7.9	18	24.1	
H884549		0.9	29	3.2	7.6	20	29.4	
H884550		0.7	16	5.1	7.6	777	14.3	
H884551		0.4	11	3.1	5.8	398	9.0	
H884552		0.3	8	1.4	5.4	77	5.8	
H884553		0.4	13	2.0	6.2	79	12.2	
H884554		0.9	24	5.3	7.7	195	20.0	
H884555		2.5	56	166.0	12.1	961	46.4	
H884556		0.5	1	0.4	1.2	15	0.8	
H884557		1.8	35	29.5	11.4	450	33.5	
H884558		0.6	14	4.9	9.1	291	9.2	
H884559		0.3	9	2.1	8.0	198	4.1	
H884560		0.3	10	1.9	9.4	146	5.5	
H884561		0.8	39	4.0	8.6	17	36.1	
H884562		0.9	14	1.5	6.7	9	21.4	
H884563		0.8	26	2.1	6.7	9	16.7	
H884564		0.5	4	35.6	4.9	11	5.1	3.79
H884565		0.3	6	570	4.3	42	4.2	
H884566		0.9	33	520	2.1	71	25.9	
H884567		1.0	104	13.5	14.8	34	40.0	
H884568		1.1	25	4.9	10.0	367	36.4	
H884569		2.1	62	6.5	17.0	1260	66.0	
H884570		1.1	45	3.9	13.0	1560	34.7	

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To: ATAC RESOURCES LTD.
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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087124

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

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE VO09087123

Project: RAU

P.O. No.: Batch 26

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087123

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884499		1.07	0.03	0.21	1.96	1860	100	1.07	6.11	11.35	5.03	16.05	12.0	34	3.39	21.0
H884500		5.75	0.01	0.22	0.29	396	20	0.18	7.89	18.15	0.92	7.38	1.8	6	0.45	11.8
H884501		10.26	0.02	0.37	0.11	217	20	0.06	19.15	18.00	1.27	6.73	2.9	<1	0.25	7.2
H884502		10.12	0.01	0.26	0.08	133	10	0.08	3.80	17.00	1.25	6.94	1.1	2	0.30	5.2
H884503		12.45	0.01	0.22	0.12	217	10	0.06	4.13	19.20	1.21	8.31	0.8	<1	0.42	7.8
H884504		11.48	0.01	0.21	0.11	58	10	<0.05	2.44	18.95	1.63	9.67	0.7	<1	0.52	8.3
H884505		3.99	<0.01	0.08	0.08	<5	20	0.05	0.05	20.5	0.06	1.88	1.0	<1	0.21	2.9
H884506		5.81	0.01	0.26	0.65	109	10	0.18	630	17.85	1.00	10.30	2.9	10	1.96	6.8
H884507		10.45	0.02	0.06	1.54	133	70	0.54	198.0	16.25	0.08	36.0	5.7	23	10.80	4.0
H884508		6.73	0.01	0.63	0.95	50	90	0.45	70.4	18.70	1.76	11.60	1.8	22	0.87	7.1
H884509		10.43	0.02	0.37	1.73	59	300	0.80	6.72	18.70	0.94	11.25	3.2	36	1.46	5.9
H884510		11.06	0.04	4.01	1.77	105	230	0.92	58.3	17.15	3.37	17.00	5.7	36	1.86	8.9
H884511		3.40	0.01	0.05	0.15	28	60	0.09	0.33	35.3	0.23	3.31	1.0	4	0.14	2.1
H884512		2.19	2.29	0.42	0.17	>10000	930	0.10	372	1.98	4.04	18.15	2.5	10	0.14	9.9
H884513		3.58	0.01	0.07	0.11	303	30	0.10	1.80	19.90	0.09	3.00	0.9	<1	0.21	2.0
H884514		2.56	2.76	1.14	1.43	>10000	2150	0.57	94.9	1.98	6.94	18.60	9.9	39	0.79	9.2
H884515		3.62	0.21	0.45	1.77	3910	1220	0.58	35.0	26.1	2.26	10.90	5.7	40	1.11	4.1
H884516		0.23	0.49	0.87	0.83	4790	140	0.27	97.0	12.55	0.15	38.1	6.1	13	2.13	35.8
H884517		0.93	0.74	2.02	1.36	>10000	2490	0.54	153.0	3.77	11.20	19.30	6.1	41	1.19	10.6
H884518		3.41	0.13	0.27	0.77	1920	690	0.36	6.86	32.3	0.84	11.45	3.2	16	0.63	10.5
H884519		3.18	0.14	0.33	0.71	1160	690	0.35	4.40	30.8	1.11	14.05	3.3	10	0.53	8.5
H884520		3.25	0.13	0.24	0.66	1320	930	0.36	16.80	30.5	1.20	11.10	3.4	8	0.71	3.5
H884521		3.16	0.14	0.53	1.24	2130	1100	0.56	7.25	28.5	2.32	13.65	5.4	21	1.95	5.0
H884522		0.23	1.45	1.48	0.11	>10000	30	<0.05	317	11.30	0.77	55.3	1.7	5	0.69	15.9
H884523		2.06	0.13	0.83	0.74	2230	1770	0.39	14.45	28.7	6.16	12.75	5.2	13	1.07	5.8
H884524		1.42	0.13	0.75	1.33	1980	1400	0.71	13.15	29.4	4.97	11.70	6.2	24	1.55	5.2
H884525		3.99	0.16	0.47	0.95	754	3410	0.60	5.88	22.9	2.86	11.75	2.4	14	0.97	5.9
H884526		1.80	0.17	0.49	0.87	733	2080	0.52	5.92	23.6	2.88	11.70	2.3	12	0.86	6.9
H884527		3.79	0.02	0.22	0.13	109	100	0.19	1.05	21.4	0.85	8.23	1.0	1	0.15	2.3
H884528		3.79	0.02	0.13	0.06	76	60	0.17	0.53	21.5	0.72	7.50	0.8	<1	0.10	1.4
H884529		1.88	0.04	0.40	0.16	391	270	0.18	1.87	27.2	2.12	9.54	1.6	3	0.47	2.6
H884530		3.35	0.03	0.34	0.71	1100	790	0.28	1.91	32.2	3.50	11.40	4.2	15	2.55	8.6
H884531		2.73	0.07	0.51	0.21	504	530	0.16	0.79	31.7	2.69	7.80	2.3	3	0.54	3.5
H884532		2.95	0.10	0.70	0.22	1090	910	0.21	0.41	32.0	4.17	7.88	3.3	2	0.47	3.4
H884533		0.92	0.02	0.24	0.96	741	560	0.46	0.17	31.7	5.37	12.35	2.4	15	0.88	4.9
H884534		2.33	0.04	0.16	0.19	376	140	0.10	0.42	35.5	1.08	3.67	1.6	3	0.58	2.9

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087123

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884499		16.65	13.15	0.22	1.3	0.03	0.051	0.23	8.1	5.8	8.11	4350	0.31	0.04	3.9	37.2
H884500		5.20	1.81	0.11	0.2	0.01	0.048	0.05	4.2	2.2	10.55	1960	0.10	0.01	1.0	3.1
H884501		6.07	0.80	0.12	0.1	0.01	0.086	0.02	3.1	2.3	10.30	3600	0.10	<0.01	0.4	4.0
H884502		3.40	0.61	0.09	0.1	<0.01	0.089	0.01	3.0	2.0	9.99	3070	0.11	<0.01	0.2	1.0
H884503		3.74	0.90	0.09	0.1	<0.01	0.112	0.03	3.2	2.2	11.10	3990	0.07	<0.01	0.4	<0.2
H884504		4.05	0.87	0.09	0.1	<0.01	0.165	0.02	3.7	2.0	10.80	5180	0.06	0.01	0.2	<0.2
H884505		0.46	0.32	0.10	<0.1	<0.01	0.008	0.04	1.1	1.3	13.20	215	0.07	<0.01	0.3	<0.2
H884506		5.23	4.34	0.35	0.5	<0.01	0.094	0.14	3.9	2.9	10.55	4480	0.12	0.04	1.9	5.3
H884507		4.92	8.33	0.09	1.1	<0.01	0.040	0.96	19.2	6.7	9.22	4000	0.27	0.04	7.1	13.0
H884508		3.24	6.33	0.06	0.7	<0.01	0.095	0.27	5.1	3.1	10.70	3900	0.14	0.04	3.5	5.2
H884509		2.50	10.40	0.06	1.1	<0.01	0.089	0.74	6.2	5.1	10.50	2580	0.26	0.02	7.6	8.8
H884510		2.99	7.67	0.09	1.3	0.01	0.376	0.76	12.1	4.0	9.83	3350	0.30	0.01	7.7	13.8
H884511		0.27	0.40	0.06	0.1	<0.01	0.008	0.07	3.4	0.4	0.39	299	0.09	<0.01	0.8	<0.2
H884512		47.0	1.72	0.65	0.2	0.08	0.400	0.07	7.7	0.5	0.10	2210	5.98	0.01	0.5	10.5
H884513		0.73	0.34	0.06	<0.1	<0.01	0.014	0.05	1.6	1.3	12.60	209	0.11	<0.01	0.4	<0.2
H884514		47.9	8.65	0.76	1.1	0.06	0.332	0.64	9.5	1.9	0.17	7090	5.03	0.03	1.3	17.4
H884515		8.92	10.50	0.15	1.1	0.02	0.054	0.82	6.4	4.6	0.37	3220	1.04	0.02	4.3	9.8
H884516		15.30	3.76	0.26	0.2	0.03	0.083	0.42	22.4	4.6	6.97	2130	15.95	0.01	2.4	19.9
H884517		44.0	8.31	0.64	0.8	0.07	0.228	0.62	10.0	3.4	0.28	4220	3.49	0.03	1.7	26.3
H884518		5.72	4.44	0.10	0.5	0.01	0.064	0.36	7.6	2.0	0.55	2000	0.54	<0.01	2.7	6.1
H884519		4.75	4.27	0.10	0.5	0.02	0.078	0.32	8.3	1.9	2.20	3040	0.80	0.01	1.5	8.0
H884520		6.95	3.85	0.12	0.4	0.01	0.087	0.30	6.4	2.8	1.51	3440	0.85	<0.01	1.9	6.5
H884521		6.66	5.93	0.12	0.7	0.02	0.050	0.57	9.0	5.8	1.93	2330	0.69	0.01	4.2	13.3
H884522		16.10	1.05	0.30	0.1	0.02	0.101	0.06	37.9	1.8	6.60	2060	5.63	<0.01	0.5	6.1
H884523		8.05	4.01	0.14	0.5	0.02	0.069	0.35	8.9	2.7	0.50	3360	1.18	0.02	4.1	13.5
H884524		7.61	6.97	0.15	0.8	0.02	0.036	0.60	8.8	6.9	0.62	2200	1.22	0.01	6.5	15.7
H884525		2.49	4.61	0.08	0.6	0.02	0.038	0.43	9.3	3.0	6.64	1180	0.34	0.04	4.8	5.9
H884526		2.39	4.19	0.08	0.5	0.02	0.045	0.39	9.3	3.0	7.55	1040	0.31	0.03	4.4	5.8
H884527		0.86	0.66	0.08	0.1	<0.01	0.030	0.06	7.3	3.0	11.75	673	0.17	<0.01	0.7	1.1
H884528		0.52	0.36	0.14	<0.1	0.01	0.028	0.03	6.8	2.6	11.50	685	0.07	<0.01	0.3	1.0
H884529		1.22	0.70	0.09	0.1	0.01	0.053	0.07	7.5	1.7	5.22	1350	0.25	<0.01	0.5	3.2
H884530		2.87	1.90	0.10	0.2	0.01	0.079	0.24	9.1	3.6	1.05	889	0.41	<0.01	1.9	15.8
H884531		1.56	0.83	0.07	0.1	0.01	0.050	0.08	6.6	1.3	3.04	1330	0.34	<0.01	0.6	4.3
H884532		3.02	1.13	0.07	0.1	0.02	0.039	0.08	6.1	1.0	2.84	2090	0.52	<0.01	0.6	6.1
H884533		2.78	2.72	0.09	0.4	0.01	0.016	0.47	12.5	2.6	0.18	572	0.23	<0.01	4.6	6.9
H884534		1.16	0.52	0.05	0.1	0.01	0.006	0.07	4.1	0.8	0.42	369	0.14	<0.01	0.7	2.4

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087123

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884499		560	40.2	35.2	0.003	0.36	6.77	4.3	5	2.6	50.7	0.24	0.12	1.7	0.154	0.32
H884500		130	23.1	6.6	<0.002	0.58	0.98	1.3	4	0.7	69.8	0.06	0.12	0.3	0.032	0.06
H884501		40	70.1	1.7	<0.002	2.71	1.05	0.8	4	0.7	98.1	<0.05	0.11	<0.2	0.009	0.03
H884502		40	52.4	0.9	0.003	1.22	0.75	1.0	2	0.3	80.2	<0.05	0.05	<0.2	0.005	0.07
H884503		60	47.4	2.0	<0.002	0.70	0.79	1.0	2	0.4	107.5	<0.05	0.09	<0.2	0.008	0.06
H884504		30	54.6	1.5	<0.002	0.74	0.89	1.3	2	0.4	105.5	<0.05	0.06	<0.2	0.005	0.04
H884505		350	1.9	1.5	<0.002	0.02	0.08	0.4	2	<0.2	53.1	<0.05	0.05	<0.2	<0.005	<0.02
H884506		300	52.6	26.9	0.004	3.20	9.18	2.6	3	2.8	93.4	0.13	0.49	0.3	0.070	0.17
H884507		470	4.1	130.5	0.003	2.95	4.58	4.9	3	3.1	98.6	0.46	0.29	0.7	0.231	0.78
H884508		310	65.6	19.9	<0.002	0.55	17.35	3.4	2	4.0	111.0	0.20	0.12	0.4	0.100	0.11
H884509		440	46.6	50.5	<0.002	0.34	5.38	4.8	2	5.8	93.7	0.44	0.13	1.1	0.231	0.26
H884510		530	165.0	68.0	<0.002	0.36	1.34	5.2	2	17.8	63.4	0.51	0.23	2.0	0.244	0.41
H884511		70	1.4	2.6	<0.002	0.02	0.15	0.5	2	<0.2	140.0	<0.05	0.16	0.2	0.018	0.02
H884512		410	51.6	3.3	<0.002	0.03	18.10	1.0	2	0.4	14.6	<0.05	0.23	0.4	0.009	0.37
H884513		350	1.8	1.8	<0.002	0.01	0.17	0.3	2	<0.2	53.6	<0.05	<0.05	0.3	<0.005	<0.02
H884514		690	123.0	31.8	<0.002	0.03	26.3	7.4	2	1.7	19.8	0.08	0.29	2.1	0.069	0.83
H884515		610	35.8	41.1	<0.002	0.01	2.14	3.3	2	2.4	18.3	0.27	0.09	1.8	0.143	0.50
H884516		240	14.2	33.3	0.015	>10.0	4.80	2.0	6	3.3	90.0	0.15	0.21	0.8	0.073	0.29
H884517		720	307	31.7	<0.002	0.05	8.70	5.6	2	1.8	18.9	0.11	0.07	1.8	0.085	0.37
H884518		290	19.9	18.1	<0.002	0.02	1.00	2.8	3	1.2	18.0	0.17	0.11	0.8	0.078	0.18
H884519		290	20.0	14.8	<0.002	0.01	0.79	2.5	2	1.2	31.9	0.09	0.12	0.6	0.041	0.17
H884520		320	7.6	12.5	<0.002	0.01	1.10	3.1	2	1.1	25.6	0.13	0.12	1.1	0.054	0.25
H884521		410	19.9	25.1	<0.002	0.01	1.26	3.5	2	1.3	24.9	0.26	0.12	1.5	0.126	0.30
H884522		100	14.8	7.1	0.005	>10.0	22.4	0.5	6	1.2	82.9	<0.05	0.79	0.5	0.009	0.09
H884523		370	30.3	16.3	<0.002	0.06	1.94	3.3	2	1.2	23.1	0.26	0.16	1.3	0.101	0.35
H884524		540	35.2	24.4	<0.002	0.02	2.40	2.9	2	1.7	20.0	0.43	0.14	1.6	0.155	0.46
H884525		290	42.1	23.7	<0.002	0.09	2.43	2.7	2	2.2	61.2	0.31	0.07	0.9	0.132	0.23
H884526		290	43.7	23.7	<0.002	0.05	2.49	2.4	2	2.8	54.6	0.29	0.06	0.9	0.119	0.22
H884527		60	16.0	5.2	<0.002	0.01	1.34	1.0	1	1.1	54.3	<0.05	0.06	0.2	0.017	0.03
H884528		50	12.3	2.4	<0.002	0.01	0.65	0.6	2	0.4	49.4	<0.05	0.05	<0.2	0.005	0.02
H884529		90	25.9	4.9	<0.002	0.01	1.22	0.7	2	0.5	51.7	<0.05	0.06	0.3	0.013	0.08
H884530		150	55.7	12.1	<0.002	0.02	2.25	2.4	2	0.6	79.8	0.12	0.11	0.7	0.063	0.19
H884531		100	31.5	4.2	<0.002	0.01	1.66	1.0	2	0.2	60.1	<0.05	0.07	0.3	0.016	0.16
H884532		170	28.7	3.6	<0.002	0.02	2.46	1.2	2	0.3	34.7	<0.05	0.08	0.3	0.015	0.26
H884533		320	35.9	16.3	0.002	0.01	4.47	2.7	2	0.3	45.2	0.29	0.11	1.1	0.118	0.09
H884534		70	10.7	3.1	<0.002	0.01	0.62	0.8	2	0.2	107.0	<0.05	0.15	0.2	0.018	0.05

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087123

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H884499		5.1	53	8.4	13.3	3100	52.5	
H884500		0.5	18	2.4	5.7	180	8.4	
H884501		0.3	6	26.1	7.2	262	3.7	
H884502		0.4	5	8.8	7.1	202	2.4	
H884503		0.3	5	7.7	8.7	208	3.9	
H884504		0.3	4	4.1	10.2	307	3.7	
H884505		1.0	1	0.2	1.1	15	<0.5	
H884506		0.9	18	146.0	11.8	236	19.3	
H884507		3.0	47	107.0	17.9	35	45.2	
H884508		1.2	31	43.9	13.3	268	26.8	
H884509		1.4	45	6.9	10.1	279	45.1	
H884510		1.7	47	10.3	10.4	776	48.1	
H884511		0.2	<1	0.3	3.3	18	3.8	
H884512		8.7	9	100.0	15.0	1040	5.6	5.08
H884513		0.9	<1	0.7	1.3	21	0.5	
H884514		5.3	52	87.6	17.0	1610	42.8	4.61
H884515		1.3	39	4.9	9.0	493	41.6	
H884516		0.5	16	67.7	7.8	33	12.8	
H884517		3.0	45	10.5	21.3	2480	29.4	2.47
H884518		0.6	17	2.3	7.9	265	18.2	
H884519		0.6	15	2.7	10.9	365	20.3	
H884520		0.6	15	2.9	9.9	369	15.3	
H884521		1.0	26	10.0	9.0	832	26.8	
H884522		1.2	4	196.0	6.7	124	2.8	2.69
H884523		1.0	17	14.8	10.8	984	20.2	
H884524		1.2	31	20.7	9.3	922	30.2	
H884525		0.8	22	31.9	8.7	487	23.0	
H884526		0.8	20	33.0	8.6	454	21.5	
H884527		0.3	5	20.7	8.0	139	3.5	
H884528		0.1	5	8.3	6.5	133	1.5	
H884529		0.2	3	12.5	7.9	338	2.6	
H884530		0.5	8	18.5	8.8	877	8.6	
H884531		0.4	3	20.1	6.2	489	3.6	
H884532		0.5	7	45.8	7.1	737	4.5	
H884533		0.6	14	62.1	9.6	547	14.8	
H884534		0.2	<1	3.8	5.0	259	3.5	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087123

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

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 10-SEP-2009
Account: RCM

CERTIFICATE VO09087122

Project: RAU

P.O. No.: Batch 28

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Account: RCM

CERTIFICATE OF ANALYSIS VO09087122

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H884571		5.22	0.05	1.23	2.39	146	470	0.81	6.39	14.90	5.04	13.25	9.4	26	3.19	66.0
H884572		7.41	0.12	0.91	2.92	72.1	290	1.07	7.12	9.55	4.11	51.3	11.5	27	5.12	27.9
H884573		5.19	0.03	0.45	1.30	86	230	0.62	0.95	13.85	0.75	22.0	6.8	18	1.37	8.7
H884574		7.91	0.01	0.42	4.57	127	230	1.80	0.61	13.05	0.63	74.0	39.1	36	5.60	53.2
H884575		0.24	1.56	1.62	0.11	>10000	20	<0.05	342	12.75	0.82	55.8	1.7	4	0.65	16.5
H884576		5.63	<0.01	0.14	4.42	84	740	1.05	0.79	21.1	0.81	63.9	44.3	26	4.32	23.8
H884577		8.18	<0.01	0.15	5.73	16	900	1.53	0.20	16.75	0.48	91.0	29.0	31	7.15	21.7
H884578		2.21	0.01	0.32	4.22	86	2450	1.10	0.44	14.85	23.9	47.2	24.3	20	6.03	7.5
H884579		7.86	<0.01	0.30	5.30	30	190	1.30	0.84	11.65	0.76	71.6	44.5	25	9.53	28.3
H884580		7.30	0.01	0.30	4.39	39	170	1.17	0.54	13.55	1.62	60.9	38.0	21	8.24	29.9
H884581		3.48	<0.01	0.28	4.34	41	180	1.13	0.58	12.90	1.62	63.3	38.9	21	8.08	30.2
H884582		7.41	0.01	0.18	5.88	73.4	170	1.41	2.12	9.87	0.28	82.6	47.4	30	8.84	29.3
H884583		1.43	0.02	1.77	4.88	494	70	1.89	24.3	4.24	2.62	92.6	36.4	66	3.95	30.9
H884584		3.89	<0.01	0.10	0.08	7	20	0.06	0.16	19.40	0.08	1.79	1.0	<1	0.23	2.1
H884585		5.16	<0.01	0.15	0.16	33	70	0.29	0.48	17.80	0.16	3.77	1.1	<1	0.22	1.8
H884586		2.35	0.01	0.20	0.52	137	160	0.20	0.05	34.5	1.97	8.97	1.4	8	0.26	2.5
H884587		2.36	0.01	0.17	0.51	148	130	0.17	0.06	35.7	3.62	11.60	1.6	7	0.32	3.1
H884588		3.07	0.01	0.19	0.98	301	270	0.31	0.66	33.7	2.55	14.20	2.4	14	1.10	5.7
H884589		2.33	0.02	0.22	0.63	188	170	0.25	1.09	34.7	3.61	12.50	1.9	10	0.40	3.3
H884590		1.03	0.03	0.47	1.16	387	300	0.40	1.05	37.7	4.35	20.8	2.3	16	0.50	5.5
H884591		0.43	0.01	0.20	0.55	224	140	0.16	0.22	35.4	2.18	10.65	1.2	8	0.40	2.4
H884592		3.13	0.10	0.23	0.84	402	230	0.25	0.32	33.8	3.14	12.40	1.9	12	0.86	4.3
H884593		1.69	0.02	0.28	1.00	456	300	0.35	0.14	34.2	3.32	11.70	1.3	16	0.65	3.0
H884594		4.04	0.23	0.40	0.30	2260	220	0.11	170.5	15.50	0.60	33.7	1.6	6	0.31	10.5
H884595		0.24	5.61	0.16	0.12	>10000	30	0.05	452	8.76	0.05	36.7	1.8	12	0.73	38.9
H884596		1.31	0.08	0.10	0.10	690	20	0.12	41.3	18.25	0.08	8.91	0.7	<1	0.16	2.2
H884597		2.06	1.85	0.22	0.08	>10000	10	0.15	1130	16.15	0.17	10.65	0.9	<1	0.53	3.3
H884598		4.08	<0.01	0.10	0.07	37	20	0.06	1.77	19.70	0.07	1.59	0.9	<1	0.14	1.6
H884599		11.64	2.30	0.11	0.07	9580	10	<0.05	414	15.05	0.12	22.8	1.0	<1	0.26	2.4
H884600		12.74	2.90	0.13	0.12	5820	10	0.07	184.5	14.15	0.09	33.8	0.9	<1	0.53	2.4
H884601		12.35	3.39	0.10	0.13	>10000	10	0.06	179.5	12.50	0.08	27.4	1.0	<1	0.55	2.7
H884602		9.96	0.50	0.11	0.06	2850	10	<0.05	80.4	15.05	0.13	11.60	1.2	2	0.31	2.3
H884603		11.28	0.28	0.09	0.13	2600	10	0.05	98.5	15.45	0.06	32.9	1.3	<1	0.30	4.0
H884604		8.13	0.33	0.14	0.08	2800	10	0.05	36.3	15.30	0.09	43.2	1.8	<1	0.29	2.4
H884605		4.72	0.06	0.76	7.38	2670	270	2.26	32.6	1.14	7.16	76.9	24.1	56	18.55	7.9
H884606		12.01	0.13	0.05	5.36	1255	190	1.32	57.1	5.76	0.05	56.9	24.1	38	22.2	7.3

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

Project: RAU

Finalized Date: 10-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087122

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884571		4.92	10.05	0.12	1.1	0.01	0.036	1.05	9.0	8.2	8.24	1400	0.78	<0.01	11.0	25.3
H884572		4.54	10.40	0.14	0.6	0.01	0.026	1.33	31.3	15.7	5.08	569	0.85	0.02	14.7	33.4
H884573		4.81	4.04	0.09	0.8	0.01	0.016	0.53	16.2	7.2	7.78	519	0.74	0.01	8.5	27.0
H884574		9.23	14.05	0.21	1.7	<0.01	0.088	1.96	39.5	14.1	2.91	567	0.46	0.08	35.8	93.8
H884575		15.85	1.05	0.27	0.1	<0.1	0.101	0.06	37.2	1.8	6.93	2140	5.34	0.01	0.4	7.0
H884576		3.62	13.10	0.14	0.4	<0.01	0.071	1.84	32.5	10.7	1.35	756	0.15	0.08	27.3	76.4
H884577		2.79	17.00	0.19	0.5	<0.01	0.089	2.29	45.8	23.4	2.13	613	0.16	0.07	28.7	66.0
H884578		3.15	13.60	0.15	0.2	0.03	0.077	1.43	23.1	8.5	2.56	4300	0.14	0.02	10.7	51.8
H884579		5.84	16.75	0.21	0.3	<0.01	0.053	2.41	35.6	20.0	5.07	743	0.16	0.04	16.9	79.8
H884580		6.09	13.30	0.20	0.2	<0.1	0.050	1.82	30.2	16.4	5.71	1310	0.16	0.03	12.2	68.4
H884581		6.06	12.95	0.21	0.2	0.01	0.046	1.83	32.0	15.5	5.56	1260	0.15	0.03	13.1	69.9
H884582		6.49	18.60	0.24	0.4	<0.01	0.042	2.52	40.1	20.9	4.73	681	0.24	0.04	25.2	86.5
H884583		10.95	19.05	0.36	3.4	0.1	0.042	0.94	45.7	3.2	2.97	257	72.5	0.24	18.3	209
H884584		0.42	0.33	0.09	<0.1	<0.01	0.008	0.03	1.0	1.1	12.30	190	0.43	0.01	0.4	1.1
H884585		0.38	0.69	0.11	0.1	<0.1	0.011	0.03	2.4	1.9	11.65	315	1.99	0.01	0.7	3.7
H884586		0.60	1.45	0.08	0.3	0.01	0.011	0.24	8.4	0.8	0.22	387	0.16	0.01	2.9	2.0
H884587		0.67	1.39	0.09	0.3	<0.1	0.009	0.24	10.0	1.0	0.16	359	0.09	<0.01	2.7	2.2
H884588		1.49	2.54	0.09	0.4	<0.1	0.018	0.42	11.6	2.7	0.22	326	0.16	0.01	4.4	9.1
H884589		0.84	1.85	0.09	0.3	0.01	0.027	0.28	10.9	1.2	0.16	340	0.11	0.01	3.4	3.8
H884590		1.25	3.19	0.10	0.5	0.01	0.036	0.53	18.2	1.9	0.20	486	0.17	0.05	5.2	5.7
H884591		0.85	1.59	0.07	0.3	0.01	0.015	0.25	9.2	1.0	0.17	316	0.07	0.02	2.8	1.5
H884592		1.38	2.27	0.06	0.4	0.01	0.014	0.38	10.4	1.7	0.23	405	0.15	0.01	4.2	5.8
H884593		1.56	2.55	0.09	0.4	0.01	0.019	0.46	10.8	1.7	0.21	673	0.22	0.01	4.9	2.2
H884594		14.80	1.39	0.23	0.2	<0.1	0.094	0.07	19.6	1.8	8.13	3600	0.49	0.04	0.7	3.1
H884595		22.4	1.08	0.33	0.1	<0.1	0.094	0.07	23.6	1.3	4.77	1420	10.60	0.01	1.1	12.7
H884596		3.46	0.64	0.07	0.1	<0.1	0.030	0.01	5.1	2.0	11.50	1540	0.17	0.01	0.8	1.3
H884597		7.32	0.86	0.39	<0.1	<0.1	0.077	0.02	5.1	1.5	9.28	3510	0.18	0.01	0.1	2.3
H884598		0.48	0.25	0.08	<0.1	<0.1	0.013	0.03	0.9	0.8	12.45	198	0.10	0.01	0.2	0.8
H884599		10.90	0.73	0.20	0.1	<0.1	0.064	0.01	12.8	1.4	8.57	2760	0.29	0.01	0.3	1.8
H884600		10.75	1.11	0.19	0.1	<0.1	0.061	0.04	20.4	1.6	8.40	2680	0.10	0.01	0.4	1.3
H884601		14.00	1.17	0.21	0.1	<0.1	0.061	0.03	16.3	1.7	7.73	2320	0.17	0.01	0.6	1.4
H884602		9.76	0.59	0.18	<0.1	<0.1	0.054	0.01	5.5	1.6	9.23	2530	0.18	0.01	0.3	2.9
H884603		12.40	1.02	0.15	<0.1	<0.1	0.055	0.01	19.7	2.1	8.93	2500	0.23	0.01	0.6	1.6
H884604		10.45	0.84	0.22	0.1	<1	0.060	0.01	27.6	1.8	8.97	2680	0.63	0.01	0.3	2.8
H884605		15.05	41.0	0.37	2.3	<0.1	0.049	3.38	31.0	22.8	3.68	1610	0.45	0.05	19.5	89.8
H884606		12.60	22.8	0.26	2.6	0.01	0.028	3.77	27.3	25.3	3.47	435	0.22	0.07	28.3	74.9

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Finalized Date: 10-SEP-2009
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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884571		960	160.0	46.5	0.009	2.26	3.16	4.9	3	1.9	70.1	0.65	0.08	2.3	0.281	1.35
H884572		1570	25.5	49.2	0.004	3.89	3.22	7.0	2	1.5	50.5	0.90	0.06	2.8	0.377	0.95
H884573		820	23.8	20.7	0.002	3.83	2.67	3.2	2	0.5	72.2	0.53	0.10	1.6	0.168	0.61
H884574		2250	33.1	60.0	0.003	4.32	2.15	10.6	2	1.6	119.0	2.16	0.15	3.6	1.055	0.62
H884575		110	15.1	7.3	0.005	>10.0	21.5	0.5	5	1.1	85.8	<0.05	0.80	0.5	0.008	0.07
H884576		2290	16.2	47.9	<0.002	0.06	1.32	10.2	2	1.2	149.0	1.72	0.05	2.9	0.937	0.28
H884577		2080	18.5	62.2	0.002	0.32	1.31	13.5	2	1.6	114.0	1.78	0.06	4.0	0.949	0.55
H884578		2200	25.1	109.5	0.003	0.65	5.35	9.3	2	1.3	107.0	0.63	0.05	2.6	0.411	1.29
H884579		2290	55.1	96.5	<0.002	5.22	1.58	12.1	2	1.2	62.5	1.01	<0.05	3.3	0.586	0.98
H884580		1820	81.0	85.7	0.002	4.84	1.63	9.6	2	1.0	76.7	0.74	<0.05	2.6	0.446	1.02
H884581		2030	80.5	87.7	<0.002	5.00	1.52	9.5	2	1.6	71.3	0.79	<0.05	2.7	0.464	1.00
H884582		2550	10.4	100.5	0.002	6.54	1.84	13.4	3	2.9	60.1	1.57	0.08	3.7	0.817	1.11
H884583		3020	125.0	53.3	0.316	>10.0	8.65	12.7	16	4.3	42.2	1.16	1.99	5.7	0.571	0.75
H884584		200	1.7	1.8	<0.002	0.03	0.09	0.4	3	<0.2	56.5	<0.05	<0.05	<0.2	0.005	<0.02
H884585		220	5.8	3.6	0.004	0.27	0.44	0.6	3	0.2	71.0	<0.05	0.06	0.2	0.018	0.03
H884586		220	20.1	8.1	<0.002	0.01	0.97	1.5	2	0.2	101.5	0.17	0.11	0.7	0.062	0.06
H884587		200	64.3	8.4	<0.002	<0.01	1.68	1.8	3	0.2	72.0	0.16	0.09	0.6	0.064	0.05
H884588		220	68.5	16.9	<0.002	<0.01	3.78	2.7	2	0.5	70.2	0.27	0.08	1.1	0.105	0.15
H884589		330	46.3	9.7	<0.002	<0.01	2.91	2.0	2	0.3	64.1	0.20	0.09	0.8	0.073	0.10
H884590		370	104.5	17.1	<0.002	0.02	2.90	3.6	3	0.4	79.9	0.32	0.18	1.5	0.108	0.10
H884591		170	34.0	8.8	<0.002	0.01	1.65	2.0	2	0.2	87.5	0.17	0.11	0.6	0.064	0.05
H884592		260	35.2	14.2	<0.002	<0.01	1.90	2.5	2	0.4	87.2	0.25	0.10	1.0	0.100	0.10
H884593		390	32.1	16.8	<0.002	0.01	2.48	2.4	2	0.3	77.9	0.30	0.11	1.0	0.121	0.12
H884594		170	12.7	3.9	<0.002	4.19	4.58	1.1	5	0.4	97.8	<0.05	0.21	0.4	0.016	0.10
H884595		60	7.0	7.8	0.003	>10.0	23.5	0.4	9	2.0	59.4	0.06	1.27	0.4	0.007	0.15
H884596		70	3.1	1.6	<0.002	0.88	1.47	0.4	3	0.2	56.2	0.06	0.11	0.2	0.008	0.03
H884597		130	7.8	4.4	0.010	1.27	18.40	0.6	7	1.2	106.5	<0.05	0.98	<0.2	<0.005	0.16
H884598		240	1.5	1.4	<0.002	0.01	0.08	0.3	2	<0.2	47.4	<0.05	0.05	<0.2	<0.005	<0.02
H884599		100	7.1	2.2	0.006	>10.0	7.09	0.5	4	0.3	103.0	<0.05	0.49	<0.2	0.005	0.14
H884600		110	6.1	4.9	<0.002	>10.0	3.48	0.5	4	0.4	95.8	<0.05	0.22	0.2	0.008	0.11
H884601		110	3.1	3.9	<0.002	>10.0	4.96	0.4	5	0.3	77.4	<0.05	0.19	0.2	0.010	0.14
H884602		70	2.9	2.6	<0.002	8.13	2.52	0.5	5	0.2	98.8	<0.05	0.12	<0.2	<0.005	0.05
H884603		140	4.0	1.7	<0.002	>10.0	1.99	0.4	5	0.3	103.0	<0.05	0.13	0.2	0.009	0.06
H884604		100	7.0	2.0	<0.002	>10.0	1.50	0.6	5	0.2	106.5	<0.05	0.14	0.2	0.005	0.07
H884605		2110	184.5	183.5	<0.002	5.69	6.87	15.2	6	12.3	44.0	0.98	0.08	3.8	0.536	2.50
H884606		2220	2.2	303	0.002	>10.0	1.21	10.1	9	5.2	36.4	1.56	0.09	3.1	0.799	2.01

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Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H884571		1.5	61	5.1	11.3	1250	45.9	
H884572		1.0	58	5.5	13.5	922	22.1	
H884573		0.9	41	2.8	11.9	166	28.4	
H884574		3.1	221	1.9	18.4	174	65.6	
H884575		1.7	6	173.5	7.2	129	3.3	2.65
H884576		0.5	112	0.7	15.2	73	16.4	
H884577		1.0	143	2.5	18.5	111	16.3	
H884578		0.6	97	26.7	8.4	5700	11.1	
H884579		0.5	122	1.6	14.9	240	11.3	
H884580		0.6	97	2.4	13.4	457	8.7	
H884581		0.6	96	3.4	13.5	452	9.9	
H884582		1.5	135	2.0	17.0	107	15.6	
H884583		14.9	951	11.4	19.2	744	137.0	
H884584		0.6	3	0.1	1.4	14	3.7	
H884585		2.1	26	0.4	3.5	34	3.5	
H884586		0.6	16	15.6	7.9	225	12.8	
H884587		0.5	11	21.0	9.7	320	10.5	
H884588		0.8	17	37.3	9.5	567	15.9	
H884589		0.7	17	18.4	10.2	364	14.9	
H884590		0.9	27	42.9	15.9	601	21.8	
H884591		0.5	10	24.1	10.1	284	10.4	
H884592		0.6	14	17.7	9.4	505	16.0	
H884593		0.7	20	19.4	8.6	411	16.9	
H884594		0.7	11	27.5	9.9	105	6.5	
H884595		0.8	7	32.2	4.6	8	4.9	4.67
H884596		0.3	5	58.7	4.7	11	5.2	
H884597		0.3	5	1280	8.2	21	0.6	1.85
H884598		0.6	1	1.5	1.0	13	<0.5	
H884599		2.3	4	800	6.5	25	3.0	
H884600		0.4	6	93.8	7.4	19	3.7	
H884601		0.4	5	133.5	6.3	18	4.2	1.26
H884602		0.2	4	86.3	6.8	41	2.2	
H884603		0.5	6	169.5	6.4	15	4.0	
H884604		0.5	6	93.5	6.5	20	2.8	
H884605		3.8	185	33.5	14.8	1420	96.8	
H884606		2.3	168	169.0	8.9	22	106.5	

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 10-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VO09087122

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE VA09086498

Project: RAU

P.O. No.: Batch 34

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 6-SEP-2009
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CERTIFICATE OF ANALYSIS VA09086498

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H884787		5.98	0.33	0.29	0.13	334	30	<0.05	61.8	15.60	0.16	26.8	0.8	2	0.76	2.7
H884788		4.18	0.11	0.12	0.09	199	20	<0.05	31.4	16.05	0.08	39.8	0.8	2	0.48	3.0
H884789		5.64	0.03	0.15	0.07	106	20	0.09	24.3	18.65	0.06	9.98	0.8	2	0.48	7.0
H884790		5.64	0.14	0.11	0.13	196	30	0.08	26.9	17.50	0.07	10.65	0.6	2	0.76	4.4
H884791		5.76	0.02	0.18	4.29	179.5	100	1.22	32.5	9.87	0.02	54.1	23.0	26	35.2	21.7
H884792		5.46	0.02	0.27	4.89	146	60	1.36	21.0	10.15	0.03	117.5	29.0	26	37.2	15.1
H884793		5.86	0.03	3.75	2.31	241	120	0.76	58.8	7.15	9.85	31.0	23.5	25	12.55	12.0
H884794		0.28	1.58	1.65	0.11	>10000	20	<0.05	317	12.65	0.87	56.4	1.6	5	0.73	16.2
H884795		4.70	0.07	29.7	2.75	449	30	1.20	117.0	5.91	30.2	66.3	24.9	23	11.75	27.8
H884796		4.68	0.03	5.68	5.41	160.5	50	1.59	27.0	7.55	6.08	70.7	44.8	33	8.28	10.9
H884797		4.62	0.08	42.3	4.58	1780	600	1.60	205	0.72	28.2	26.0	41.9	32	2.07	33.3
H884798		4.82	0.09	15.65	1.14	2440	70	0.55	145.5	0.45	22.3	3.27	12.1	11	0.37	26.3
H884799		4.20	0.01	0.19	0.10	11	120	0.06	0.72	20.5	0.16	6.06	1.0	1	0.17	2.3
H884800		5.22	0.01	0.55	1.16	88.1	50	0.94	6.02	0.59	1.79	11.95	7.2	52	0.51	27.3
H884801		1.12	0.01	0.43	0.39	217	1110	0.33	0.65	1.35	2.27	5.44	1.0	25	0.61	15.5
H884802		3.22	<0.01	0.26	0.56	73.8	1240	0.36	0.73	1.79	0.88	6.94	3.7	44	0.83	27.6
H884803		4.00	0.02	0.21	5.37	59.6	50	1.17	0.55	3.09	1.04	42.6	45.8	42	5.11	23.9
H884804		6.12	0.02	0.32	5.96	53.2	90	1.27	2.30	8.66	0.48	79.1	47.9	33	5.89	17.6
H884805		4.82	0.07	46.7	4.05	886	80	1.24	174.5	3.23	147.0	54.1	18.2	27	7.49	113.5
H884806		4.02	0.02	12.40	3.64	377	20	1.06	51.0	5.45	141.0	32.2	16.9	25	5.70	30.5
H884807		5.88	0.04	39.6	1.65	1065	20	0.59	193.0	3.91	103.5	112.5	10.0	23	2.88	71.9
H884808		3.12	<0.01	5.13	3.89	478	20	1.36	40.2	4.89	48.7	125.5	16.3	37	6.32	14.4
H884809		3.40	0.03	0.24	4.98	60.1	40	1.86	2.53	8.48	0.61	76.2	23.7	45	4.57	13.0
H884810		3.48	0.01	0.18	1.49	30	100	0.93	7.03	17.40	0.27	28.7	7.5	16	2.01	5.7
H884811		4.54	<0.01	0.10	1.47	9	150	0.83	0.99	18.10	0.13	22.7	5.6	14	1.53	7.5
H884812		0.56	0.10	1.26	0.43	338	320	0.21	13.90	21.5	0.45	13.05	4.3	16	0.40	4.1
H884813		0.28	5.40	0.21	0.12	>10000	30	<0.05	442	8.99	0.08	41.1	1.7	13	0.83	38.9
H884814		0.28	0.08	1.66	0.74	649	740	0.37	13.25	18.35	0.47	16.30	1.4	8	1.25	4.3
H884815		0.78	0.17	3.90	0.41	2870	180	0.13	50.6	0.70	0.20	17.55	2.3	3	0.21	8.6
H884816		0.78	0.14	4.77	0.69	1140	280	0.33	61.2	16.55	0.66	62.9	4.3	7	0.53	10.3
H884817		0.40	0.21	8.91	0.95	1650	230	0.43	52.4	8.06	0.37	71.5	5.0	11	0.69	18.1
H884818		5.54	0.10	0.25	0.54	1020	270	0.24	33.5	11.70	0.34	14.05	2.8	5	1.39	4.7
H884819		4.26	0.29	0.27	0.71	3260	420	0.33	79.1	14.80	0.22	13.45	3.4	6	1.12	4.5
H884820		0.62	3.67	0.33	0.22	>10000	630	0.09	296	2.60	0.61	18.90	1.4	4	0.34	5.9
H884821		1.90	9.39	0.19	0.27	>10000	1210	<0.05	794	0.90	1.11	14.60	2.3	<1	0.21	11.2
H884822		3.08	0.05	0.02	0.09	83	20	0.07	2.18	20.5	0.06	3.69	1.0	2	0.26	1.5

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 6-SEP-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09086498

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
H884787		8.06	1.45	0.18	0.4	<0.01	0.122	0.06	11.9	2.3	8.74	2840	9.89	0.05	5.1	3.3
H884788		5.88	1.15	0.14	0.3	<0.01	0.104	0.03	22.0	2.2	9.06	2710	2.39	0.03	0.2	4.5
H884789		4.30	0.67	0.12	0.1	<0.01	0.054	0.03	5.1	2.2	11.45	1060	2.85	0.02	1.4	4.3
H884790		5.46	1.11	0.11	0.1	<0.01	0.081	0.05	4.8	2.9	10.35	1800	2.81	0.02	1.7	2.5
H884791		7.28	18.70	0.20	1.7	<0.01	0.022	2.91	27.8	22.8	6.53	451	1.73	0.05	11.3	46.2
H884792		7.07	23.6	0.25	3.2	<0.01	0.020	2.97	63.8	22.8	6.55	600	2.08	0.08	12.9	69.5
H884793		7.54	13.75	0.17	2.2	0.02	0.010	1.02	15.5	6.4	3.73	543	2.58	0.08	9.4	47.1
H884794		16.50	1.13	0.28	0.1	<0.01	0.121	0.07	36.1	1.8	6.91	2130	7.02	0.01	0.4	7.6
H884795		10.75	14.70	0.23	1.0	0.05	0.390	1.32	36.5	8.5	2.92	1180	11.05	0.06	8.3	62.5
H884796		6.48	20.1	0.20	0.9	0.01	0.054	2.42	33.5	6.4	3.80	1170	2.31	0.06	22.9	99.4
H884797		25.6	20.6	0.38	1.3	0.04	0.037	2.13	9.1	16.6	0.42	95	1.14	0.06	12.8	116.0
H884798		37.4	6.65	0.48	1.1	0.04	0.017	0.47	0.9	4.5	0.14	132	3.97	0.03	5.3	42.0
H884799		0.55	0.57	0.08	0.1	<0.01	0.013	0.04	2.8	1.2	12.80	190	0.24	0.01	1.5	3.7
H884800		2.87	4.90	0.09	0.9	0.02	0.021	0.48	6.5	2.0	0.23	190	4.51	0.01	4.9	31.3
H884801		2.10	2.28	0.06	0.2	0.02	0.023	0.15	2.6	2.0	0.51	598	2.13	0.02	1.4	12.3
H884802		1.41	2.64	0.06	0.3	0.02	0.020	0.21	3.8	1.1	0.89	395	16.95	0.02	1.6	42.5
H884803		8.62	17.30	0.22	1.0	0.01	0.039	2.35	13.9	10.7	1.69	225	2.76	0.05	16.6	111.5
H884804		6.80	20.0	0.23	0.9	0.01	0.050	2.48	33.8	11.7	4.99	924	3.06	0.05	24.3	101.5
H884805		21.5	15.95	0.35	1.0	0.28	0.081	1.67	23.5	7.6	1.88	2020	2.00	0.07	10.1	63.3
H884806		9.83	14.20	0.21	0.8	0.21	0.054	1.53	9.4	12.4	2.88	2120	0.68	0.06	10.4	47.0
H884807		23.6	8.36	0.43	1.0	0.14	0.027	0.55	47.5	4.2	2.18	1360	0.73	0.06	7.3	29.5
H884808		11.20	12.80	0.30	1.1	0.09	0.040	1.76	64.4	8.3	2.81	826	2.39	0.04	12.8	50.2
H884809		5.85	16.50	0.23	1.4	<0.01	0.038	2.22	35.8	9.2	4.60	270	0.63	0.04	22.1	54.8
H884810		2.29	5.69	0.11	0.7	<0.01	0.017	0.60	16.6	9.9	10.80	720	0.21	0.03	7.8	23.8
H884811		1.56	5.02	0.09	0.6	<0.01	0.020	0.56	14.2	14.1	10.90	513	0.16	0.02	8.1	17.5
H884812		6.65	1.96	0.12	0.3	<0.01	0.032	0.12	6.5	2.0	6.71	1060	1.77	0.03	2.8	18.7
H884813		23.9	1.22	0.38	0.1	<0.01	0.097	0.07	25.8	1.5	4.88	1460	11.30	0.01	1.4	13.6
H884814		6.25	3.33	0.11	0.3	<0.1	0.066	0.26	8.4	3.2	4.66	1220	1.12	0.04	3.4	6.5
H884815		25.0	3.66	0.30	0.3	<0.01	0.029	0.02	8.5	1.7	8.05	1250	2.30	0.02	1.9	12.3
H884816		16.05	5.39	0.26	0.8	<0.01	0.065	0.08	32.3	2.8	4.53	1990	1.11	0.09	9.6	19.5
H884817		23.7	6.52	0.27	1.6	<0.01	0.048	0.09	30.6	3.6	6.37	1690	1.54	0.08	15.4	21.7
H884818		11.65	2.76	0.15	0.3	<0.01	0.030	0.09	6.7	4.2	8.85	1660	0.41	0.02	2.8	13.3
H884819		13.50	4.31	0.19	0.5	<0.01	0.049	0.07	6.9	4.5	7.67	2050	0.38	0.02	3.5	15.1
H884820		29.6	1.70	0.34	0.3	<0.01	0.053	0.03	8.8	1.4	1.21	1340	1.97	0.03	3.1	6.3
H884821		>50	1.99	0.70	0.2	<0.01	0.140	0.03	6.8	3.4	0.36	1460	1.90	0.02	2.7	10.5
H884822		0.57	0.41	<0.05	0.2	<0.01	<0.005	0.04	1.6	1.3	13.05	190	0.14	0.01	1.4	1.3

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Project: RAU

Finalized Date: 6-SEP-2009
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CERTIFICATE OF ANALYSIS VA09086498

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884787		90	7.4	5.1	0.004	7.97	3.01	1.9	3	0.6	107.5	0.31	0.12	0.4	<0.005	0.05
H884788		60	4.2	3.2	0.003	5.11	1.44	0.9	3	0.6	99.2	<0.05	0.10	0.5	<0.005	0.04
H884789		60	3.6	3.1	0.003	4.01	1.23	0.3	3	0.3	62.3	0.07	0.11	0.2	<0.005	0.03
H884790		70	4.2	4.4	0.002	5.06	0.88	0.7	3	0.4	84.0	0.10	0.09	<0.2	<0.005	0.05
H884791		1560	3.3	480	<0.002	8.27	0.69	8.6	3	3.9	45.4	0.65	0.27	2.6	0.391	2.61
H884792		2130	2.6	550	<0.002	8.18	1.12	10.7	3	5.2	54.1	0.74	0.41	3.9	0.432	3.08
H884793		1450	533	188.5	<0.002	8.76	2.32	5.4	5	3.8	44.3	0.56	0.42	1.6	0.300	1.36
H884794		120	16.1	7.9	0.005	>10.0	22.3	0.5	5	1.2	86.6	<0.05	0.79	0.5	0.007	0.10
H884795		1210	1035	203	0.008	>10.0	6.05	5.7	4	21.1	34.7	0.47	0.48	2.0	0.262	1.75
H884796		1870	87.0	195.5	0.002	7.04	3.42	11.8	3	7.4	51.3	1.35	0.13	3.4	0.674	1.85
H884797		1730	319	79.8	0.006	>10.0	11.50	7.0	5	9.0	15.5	0.74	0.36	1.2	0.403	0.72
H884798		380	543	23.3	0.016	>10.0	8.86	1.2	7	5.3	26.9	0.26	0.59	0.2	0.117	0.33
H884799		240	4.1	2.2	<0.002	0.17	<0.05	0.3	2	0.2	48.3	0.10	0.07	<0.2	0.005	<0.02
H884800		440	31.9	27.1	0.057	2.67	1.56	1.1	3	5.6	6.1	0.27	0.08	0.7	0.132	0.39
H884801		70	48.2	15.7	0.023	0.35	1.51	0.4	2	0.7	10.6	0.07	0.08	0.3	0.019	0.32
H884802		270	37.2	19.0	0.156	0.45	1.53	0.5	4	0.9	12.2	0.09	0.05	0.6	0.022	0.30
H884803		2570	51.5	107.0	0.011	9.69	1.97	10.9	4	3.4	26.8	1.05	<0.05	2.6	0.513	1.39
H884804		2380	47.4	137.5	0.004	6.66	1.51	12.8	3	3.6	53.9	1.48	0.08	3.7	0.708	1.59
H884805		1020	1780	114.5	0.030	>10.0	32.2	7.8	6	4.9	25.6	0.61	0.68	2.1	0.322	2.44
H884806		1170	815	91.8	0.055	>10.0	37.6	7.5	4	5.9	55.9	0.63	0.29	1.4	0.319	2.88
H884807		700	2030	39.2	0.062	>10.0	23.4	3.0	6	3.3	30.5	0.43	0.75	1.3	0.172	1.81
H884808		1030	711	90.1	0.057	>10.0	13.75	8.3	4	3.0	36.0	0.76	0.23	3.3	0.358	2.24
H884809		1390	20.4	101.5	0.003	6.83	1.74	10.7	3	3.6	43.5	1.35	0.10	3.9	0.585	1.21
H884810		530	5.0	30.4	0.002	2.34	1.41	4.4	2	1.2	69.1	0.47	0.14	1.3	0.192	0.37
H884811		460	2.6	19.7	<0.002	1.54	1.12	3.7	2	0.7	66.5	0.48	0.07	1.2	0.206	0.26
H884812		230	6.4	5.2	<0.002	0.05	0.78	2.5	2	0.5	63.2	0.15	0.19	0.6	0.033	0.09
H884813		70	6.6	8.0	0.003	>10.0	24.8	0.4	9	2.2	61.8	0.08	1.40	0.4	0.008	0.17
H884814		150	6.2	15.5	0.002	0.12	0.87	2.1	2	1.1	36.8	0.19	0.09	0.7	0.027	0.13
H884815		350	4.7	1.8	0.002	0.05	3.47	1.5	3	0.5	5.0	0.11	0.15	0.4	0.014	0.11
H884816		300	8.5	8.5	0.002	0.08	1.50	2.9	3	0.7	20.3	0.55	0.13	1.3	0.019	0.31
H884817		330	7.0	10.1	<0.002	0.04	2.42	3.0	4	1.0	16.0	0.89	0.14	1.6	0.030	0.21
H884818		300	3.3	7.7	<0.002	0.03	0.87	1.9	3	0.9	34.3	0.15	0.07	0.4	0.028	0.24
H884819		300	5.6	6.5	<0.002	0.02	2.29	2.1	4	1.0	38.2	0.19	0.09	0.7	0.049	0.21
H884820		130	6.2	2.8	<0.002	0.04	11.85	0.9	7	0.3	15.6	0.19	0.43	0.3	<0.005	0.43
H884821		160	11.8	2.8	<0.002	0.06	24.1	2.1	24	0.5	14.6	0.17	1.93	0.3	<0.005	0.60
H884822		260	1.6	2.3	<0.002	0.01	0.17	0.3	2	<0.2	48.5	0.08	<0.05	0.2	<0.005	0.02

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

Finalized Date: 6-SEP-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09086498

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001
H884787		0.2	11	13.1	10.8	29	21.7	
H884788		0.4	8	610	10.3	19	13.8	
H884789		0.2	8	7.6	4.1	12	6.0	
H884790		0.2	8	25.7	6.8	17	5.5	
H884791		1.6	102	61.3	11.1	19	71.8	
H884792		4.3	163	7.9	13.2	34	124.0	
H884793		3.3	71	9.7	8.0	2550	85.8	
H884794		0.7	5	196.0	7.3	139	3.5	
H884795		1.7	66	10.7	7.5	7080	41.4	
H884796		1.2	125	13.3	10.8	1560	36.2	
H884797		2.3	124	10.6	5.1	6700	49.6	
H884798		13.9	53	5.7	2.1	5400	44.4	
H884799		0.8	2	0.3	1.2	42	5.5	
H884800		9.2	97	3.3	2.6	494	33.9	
H884801		4.5	43	2.3	2.4	786	8.1	
H884802		9.5	115	2.9	2.8	306	11.6	
H884803		4.5	141	3.6	11.8	310	43.3	
H884804		2.7	137	6.5	15.5	294	37.0	
H884805		3.6	105	15.5	10.0	>10000	42.9	3.88
H884806		2.7	89	11.9	8.9	>10000	32.9	3.02
H884807		4.6	56	6.3	8.1	>10000	42.9	2.81
H884808		4.2	79	5.4	12.4	>10000	46.4	1.480
H884809		1.7	106	3.2	15.9	178	59.0	
H884810		1.4	32	2.7	13.3	101	30.7	
H884811		0.8	32	1.8	10.8	50	23.0	
H884812		0.9	13	15.3	8.1	80	13.9	
H884813		0.6	6	37.6	4.9	12	5.6	
H884814		0.7	12	13.4	9.0	119	15.8	
H884815		1.2	14	123.5	12.4	158	13.2	
H884816		1.5	12	66.0	19.6	145	37.9	
H884817		1.7	17	117.0	21.8	149	81.3	
H884818		0.6	13	12.3	12.2	67	15.8	
H884819		0.8	15	34.9	13.9	115	21.4	
H884820		1.7	6	51.0	7.3	177	13.6	
H884821		3.4	8	271	8.9	385	8.5	
H884822		0.7	2	0.9	1.3	16	8.6	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

CERTIFICATE OF ANALYSIS VA09086498

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE VA09081263

Project: RAU

P.O. No.:

This report is for 256 Soil samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63711		0.10	0.001	0.7	1.09	25	<10	160	<0.5	<2	0.06	0.5	3	31	32	2.21
CC63712		0.08	<0.001	1.7	0.50	38	<10	80	0.5	<2	0.06	5.3	3	16	310	2.06
CC63713		0.12	0.003	0.3	0.46	41	<10	80	<0.5	<2	0.06	4.1	2	11	248	1.58
CC63714		0.12	0.012	1.5	0.30	73	<10	100	<0.5	<2	0.06	5.5	5	9	140	2.37
CC63715		0.14	0.144	8.6	0.48	539	<10	100	0.8	5	0.63	180.0	77	15	582	15.7
CC63716		0.10	0.006	0.6	0.35	243	<10	70	<0.5	<2	0.07	3.5	5	8	67	2.06
CC63717		0.14	0.015	1.5	1.44	191	<10	140	0.5	<2	0.10	8.5	10	25	54	3.08
CC63718		0.08	<0.001	0.5	0.38	80	<10	60	<0.5	<2	0.03	1.4	2	9	26	1.27
CC63719		0.12	0.005	0.3	0.28	378	<10	60	<0.5	<2	0.02	5.1	4	10	39	2.47
CC63720		0.12	0.008	0.7	0.23	266	<10	50	<0.5	<2	0.01	4.9	2	11	25	1.96
CC63721		0.12	0.008	1.4	0.46	142	<10	110	<0.5	<2	0.05	2.1	2	19	27	1.39
CC63722		0.12	0.007	1.3	1.46	172	<10	150	<0.5	<2	0.06	3.1	5	28	38	3.05
CC63723		0.10	0.005	1.0	0.83	173	<10	70	<0.5	<2	0.03	1.9	3	20	22	2.48
CC63724		0.12	0.005	0.8	0.76	148	<10	90	<0.5	<2	0.04	1.8	3	16	30	2.57
CC63725		0.12	0.006	2.2	1.33	136	<10	90	<0.5	<2	0.05	1.9	4	25	15	3.43
CC63726		0.14	0.015	1.0	1.08	341	<10	110	0.5	<2	0.09	13.9	9	17	36	2.91
CC63727		0.06	0.019	0.5	0.51	36	<10	130	<0.5	<2	0.19	1.8	2	12	29	1.13
CC63728		0.12	0.022	1.1	0.37	138	<10	120	<0.5	<2	1.17	19.9	22	9	67	5.61
CC63729		0.08	0.011	0.6	0.37	24	<10	120	<0.5	<2	0.07	11.5	3	14	71	1.25
CC63730		0.08	0.004	0.8	0.42	57	<10	50	<0.5	<2	0.03	2.8	4	8	208	1.62
CC63738		0.22	0.015	3.5	1.23	34	<10	310	0.5	<2	0.21	10.8	2	31	67	0.86
CC63739		0.22	0.016	1.3	0.78	140	<10	170	<0.5	<2	0.07	2.9	4	24	59	2.22
CC63740		0.22	0.014	3.0	0.88	140	<10	140	0.5	<2	0.04	2.9	6	21	87	2.42
CC63741		0.14	0.006	2.4	1.45	124	<10	200	<0.5	<2	0.19	2.4	4	37	40	2.79
CC63742		0.14	0.003	0.6	0.99	33	<10	130	<0.5	<2	0.05	1.0	3	18	10	2.04
CC63743		0.18	0.008	2.0	1.73	105	<10	280	<0.5	<2	0.06	1.2	5	35	62	2.77
CC63744		0.20	0.013	1.3	1.15	162	<10	170	<0.5	<2	0.04	2.3	5	26	52	2.77
CC63745		0.16	0.005	0.6	0.52	32	<10	120	<0.5	<2	0.04	<0.5	2	13	12	1.15
CC63746		0.16	0.007	1.9	1.50	83	<10	120	<0.5	<2	0.09	1.5	6	29	45	2.99
CC63747		0.18	0.009	1.5	1.44	93	<10	120	<0.5	<2	0.04	1.3	17	32	56	4.76
CC63748		0.34	0.025	0.7	0.82	108	<10	120	<0.5	<2	0.03	1.2	4	15	44	1.83
CC63749		0.18	0.008	0.7	0.97	116	<10	140	<0.5	<2	0.04	1.7	5	20	35	2.23
CC63750		0.14	0.004	4.1	2.27	37	<10	200	<0.5	<2	0.06	1.1	5	33	14	3.01
CC63751		0.14	0.007	3.8	1.59	115	<10	310	0.5	<2	0.42	1.8	6	39	51	2.62
CC63752		0.18	<0.001	1.1	0.34	36	<10	160	<0.5	2	0.06	0.6	1	19	20	0.82
CC63753		0.20	0.014	10.1	0.64	123	<10	200	<0.5	<2	0.26	2.3	2	30	93	2.02
CC63754		0.20	0.012	2.9	0.75	138	<10	150	<0.5	<2	0.50	6.3	4	31	70	1.94
CC63755		0.16	0.009	0.5	0.40	206	<10	60	<0.5	<2	0.04	2.7	5	13	31	2.33
CC63756		0.28	0.156	8.4	0.54	235	<10	130	<0.5	19	0.43	34.7	23	13	193	5.77
CC63757		0.26	0.020	0.6	0.15	191	<10	40	<0.5	<2	0.03	9.8	5	6	27	1.40

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63711		10	<1	0.04	10	0.18	119	16	0.01	10	920	18	0.04	4	1	47
CC63712		<10	<1	0.04	10	0.03	55	82	0.01	79	1100	9	0.07	9	<1	35
CC63713		<10	<1	0.03	10	0.03	40	61	0.01	55	820	10	0.06	8	<1	19
CC63714		<10	1	0.02	10	0.02	54	88	0.01	159	1150	26	0.05	15	<1	13
CC63715		<10	<1	0.02	10	0.15	1510	76	0.01	1100	1520	1455	0.06	144	12	28
CC63716		<10	<1	0.02	10	0.02	93	68	<0.01	146	700	143	0.05	21	1	9
CC63717		<10	<1	0.06	10	0.30	431	46	0.01	111	1380	139	0.03	20	2	20
CC63718		<10	<1	0.02	10	0.02	38	38	0.01	59	450	114	0.03	11	1	12
CC63719		<10	<1	0.02	10	0.01	30	89	0.01	110	560	177	0.03	23	1	22
CC63720		<10	<1	0.02	20	0.01	18	109	0.01	91	560	307	0.03	26	1	10
CC63721		<10	1	0.04	10	0.03	57	72	0.01	17	740	69	0.11	60	<1	23
CC63722		<10	1	0.06	10	0.24	288	33	0.01	27	790	92	0.06	30	1	50
CC63723		<10	1	0.02	10	0.09	68	47	0.01	63	460	148	0.01	11	1	17
CC63724		<10	1	0.03	10	0.12	96	38	0.01	52	730	126	0.01	12	1	58
CC63725		10	<1	0.04	10	0.22	204	26	0.01	31	1260	81	0.02	7	1	17
CC63726		<10	<1	0.04	10	0.15	418	75	0.01	157	1160	287	0.01	16	2	13
CC63727		<10	<1	0.03	<10	0.03	77	14	0.02	39	1080	30	0.03	5	<1	13
CC63728		<10	<1	0.02	<10	0.27	1275	21	0.02	137	1250	235	0.06	19	3	41
CC63729		<10	<1	0.02	10	0.02	144	26	0.02	31	960	17	0.02	6	<1	26
CC63730		<10	<1	0.02	10	0.04	30	46	0.01	90	850	12	0.05	10	1	47
CC63738		10	1	0.04	10	0.19	54	10	0.01	39	2010	153	0.04	11	<1	42
CC63739		<10	1	0.04	10	0.18	77	43	0.01	88	900	144	0.01	23	2	40
CC63740		<10	<1	0.04	10	0.14	90	46	0.01	118	910	97	0.01	20	2	25
CC63741		10	<1	0.05	10	0.25	272	14	0.01	22	3780	58	0.05	21	1	33
CC63742		10	<1	0.04	10	0.12	145	12	0.01	10	430	24	0.02	10	1	9
CC63743		<10	<1	0.04	10	0.28	233	25	0.01	41	860	75	0.03	27	2	60
CC63744		<10	<1	0.05	10	0.21	135	42	0.01	72	670	147	0.02	22	2	50
CC63745		10	<1	0.02	10	0.03	49	12	0.01	11	520	41	0.02	5	<1	57
CC63746		<10	1	0.04	10	0.21	190	29	0.01	71	1050	151	0.02	14	2	51
CC63747		<10	1	0.04	10	0.25	231	20	0.01	111	750	71	0.03	14	3	30
CC63748		<10	<1	0.03	10	0.11	66	31	0.01	49	380	189	0.01	17	1	41
CC63749		<10	<1	0.03	10	0.17	118	38	0.01	51	610	126	0.02	16	1	34
CC63750		10	<1	0.04	10	0.31	252	11	0.01	14	500	37	0.01	3	3	13
CC63751		<10	1	0.04	10	0.28	217	13	0.01	26	2520	54	0.03	24	2	115
CC63752		<10	<1	0.03	10	0.03	38	13	0.01	7	950	46	0.04	17	<1	46
CC63753		<10	<1	0.05	20	0.07	114	31	0.01	53	3780	71	0.05	39	1	99
CC63754		<10	1	0.05	20	0.12	116	28	0.01	87	3040	86	0.02	31	1	47
CC63755		<10	<1	0.02	10	0.06	77	63	0.01	129	800	169	0.01	17	1	18
CC63756		<10	<1	0.03	10	0.14	581	25	0.01	236	1340	1020	0.04	331	5	58
CC63757		<10	<1	0.02	10	0.02	45	48	0.01	120	370	247	<0.01	10	1	8

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC63711		<20	0.03	<10	<10	186	<10	50	
CC63712		<20	0.01	<10	20	113	<10	324	
CC63713		<20	0.01	<10	10	76	<10	223	
CC63714		<20	0.01	<10	10	45	<10	707	
CC63715		<20	<0.01	<10	10	12	<10	>10000	1.060
CC63716		<20	0.01	<10	10	38	<10	488	
CC63717		<20	0.03	<10	20	54	<10	487	
CC63718		<20	0.02	<10	<10	47	<10	174	
CC63719		<20	0.01	<10	<10	92	<10	429	
CC63720		<20	0.01	<10	<10	106	<10	462	
CC63721		<20	0.02	<10	<10	299	<10	78	
CC63722		<20	0.04	<10	<10	225	<10	167	
CC63723		<20	0.03	<10	<10	120	<10	265	
CC63724		<20	0.03	<10	<10	85	<10	261	
CC63725		<20	0.04	<10	<10	101	<10	180	
CC63726		<20	0.02	<10	<10	52	<10	713	
CC63727		<20	0.01	<10	<10	21	<10	130	
CC63728		<20	0.01	<10	10	19	<10	1190	
CC63729		<20	0.01	<10	<10	58	<10	138	
CC63730		<20	0.01	<10	20	39	<10	300	
CC63738		<20	<0.01	<10	10	81	<10	301	
CC63739		<20	0.02	<10	<10	136	<10	407	
CC63740		<20	0.01	<10	<10	82	<10	505	
CC63741		<20	0.02	<10	<10	138	<10	121	
CC63742		<20	0.04	<10	<10	160	<10	82	
CC63743		<20	0.03	<10	<10	248	<10	208	
CC63744		<20	0.02	<10	<10	132	<10	346	
CC63745		<20	0.02	<10	<10	81	<10	58	
CC63746		<20	0.03	<10	<10	125	<10	331	
CC63747		<20	0.02	<10	<10	90	<10	292	
CC63748		<20	0.02	<10	<10	87	<10	221	
CC63749		<20	0.02	<10	<10	89	<10	244	
CC63750		<20	0.04	<10	<10	105	<10	116	
CC63751		<20	0.03	<10	10	155	<10	140	
CC63752		<20	0.01	<10	<10	87	<10	57	
CC63753		<20	0.02	<10	<10	150	<10	163	
CC63754		<20	0.01	<10	<10	170	<10	418	
CC63755		<20	0.02	<10	<10	78	<10	471	
CC63756		<20	0.01	<10	10	26	<10	1190	
CC63757		<20	<0.01	<10	<10	27	<10	349	

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Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC63758		0.22	0.020	1.9	0.19	270	<10	20	<0.5	2	0.09	5.4	5	8	61	1.99
CC63759		0.18	0.014	1.6	0.29	267	<10	30	<0.5	<2	0.05	4.5	4	12	71	1.88
CC63760		0.18	0.012	4.0	1.62	113	<10	340	0.5	2	0.06	1.6	5	50	52	2.67
CC63761		0.16	0.007	4.0	1.75	92	<10	280	<0.5	<2	0.11	0.6	4	47	21	2.60
CC63762		0.24	0.008	0.7	2.06	88	<10	350	0.6	<2	0.08	0.8	10	37	56	3.09
CC63763		0.20	0.009	6.2	2.21	95	<10	260	0.7	<2	0.07	2.2	9	36	45	3.34
CC63764		0.24	0.010	3.3	1.72	90	<10	160	<0.5	<2	0.04	1.1	6	26	22	2.67
CC63765		0.24	0.010	3.6	2.35	64	<10	380	0.7	<2	0.07	1.9	18	39	71	4.09
CC63766		0.24	0.002	0.2	0.95	52	<10	90	<0.5	2	0.08	0.9	28	38	86	6.20
CC63767		0.24	0.016	1.8	1.65	130	<10	210	0.5	<2	0.07	1.7	7	30	52	2.86
CC63768		0.16	0.013	6.8	2.40	154	<10	390	0.7	<2	0.09	2.3	8	40	100	3.15
CC63769		0.18	0.015	1.0	0.78	200	<10	70	<0.5	<2	0.10	3.5	5	17	30	2.23
CC63770		0.14	0.008	0.9	2.11	112	<10	240	0.7	<2	0.17	6.9	11	31	16	3.11
CC63771		0.12	0.161	13.1	1.04	185	<10	200	<0.5	5	0.26	21.4	8	21	166	4.55
CC63772		0.16	0.026	7.2	0.59	108	<10	240	<0.5	<2	0.91	9.1	6	13	95	2.87
CC63773		0.16	0.013	1.2	0.88	47	<10	90	<0.5	<2	0.05	4.0	6	20	75	3.17
CC63774		0.20	0.058	2.8	0.46	515	<10	120	<0.5	<2	0.55	45.7	37	11	143	7.82
CC63775		0.10	0.008	0.3	0.42	166	<10	80	<0.5	<2	0.08	2.6	3	13	24	1.75
CC63776		0.12	0.008	0.4	0.59	142	<10	110	<0.5	<2	0.15	7.1	3	11	18	1.59
CC63777		0.14	0.008	1.1	0.69	152	<10	70	<0.5	<2	0.03	2.7	4	13	31	2.12
CC63778		0.12	0.013	0.7	0.46	284	<10	70	<0.5	<2	0.03	3.7	4	14	40	2.33
CC63779		0.14	0.002	2.2	2.34	46	<10	300	0.7	<2	0.07	4.7	11	33	19	3.24
CC63780		0.16	0.004	1.3	1.54	61	<10	110	<0.5	<2	0.04	0.5	2	22	14	2.21
CC63781		0.14	0.001	1.7	1.16	52	<10	80	<0.5	<2	0.04	<0.5	2	17	12	2.07
CC63784		0.14	0.010	0.4	0.94	19	<10	190	<0.5	<2	1.61	<0.5	9	20	15	2.59
CC63785		0.14	0.004	0.3	0.96	13	<10	210	<0.5	<2	0.87	<0.5	5	22	7	2.18
CC63786		0.20	0.006	0.4	0.60	19	<10	90	<0.5	<2	12.8	0.8	4	11	12	1.10
CC63787		0.16	0.013	0.4	1.26	28	<10	350	<0.5	<2	0.95	1.0	12	32	39	3.02
CC63788		0.10	<0.001	0.4	0.81	19	<10	350	<0.5	<2	2.94	<0.5	9	16	25	2.31
CC63789		0.26	0.005	0.4	0.77	24	<10	270	<0.5	<2	6.41	0.7	7	16	21	2.11
CC63790		0.08	0.006	0.4	1.09	22	<10	360	<0.5	<2	1.80	0.5	10	24	23	2.74
CC63791		0.16	0.005	0.4	0.99	18	<10	330	<0.5	2	4.04	0.7	9	22	27	2.52
CC63792		0.18	0.001	0.5	1.11	20	<10	270	<0.5	<2	4.04	0.6	9	25	26	2.73
CC63793		0.20	0.003	0.5	1.00	22	<10	280	<0.5	<2	6.02	0.5	8	23	22	2.46
CC63794		0.24	0.003	0.5	1.24	25	<10	280	<0.5	<2	4.99	0.6	12	35	28	3.08
CC63795		0.18	0.003	0.3	1.23	21	<10	260	0.5	<2	3.24	<0.5	11	32	22	3.17
CC63796		0.24	0.002	0.4	0.62	26	<10	220	<0.5	<2	7.12	0.6	7	14	23	1.97
CC63797		0.14	0.004	1.3	1.04	29	<10	340	0.5	<2	2.81	1.0	10	21	37	2.74
CC63798		0.12	0.004	0.4	0.98	25	<10	250	<0.5	<2	3.02	0.6	8	20	25	2.47
CC63799		0.10	0.005	0.5	0.92	33	<10	280	<0.5	<2	2.73	0.9	7	18	27	2.36

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Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
Sample Description LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63758	<10	<1	0.02	10	0.02	70	148	0.01	197	1000	329	0.01	36	1	10
CC63759	<10	<1	0.02	20	0.03	41	116	0.01	145	700	199	0.01	32	1	14
CC63760	<10	<1	0.04	20	0.28	169	20	0.01	22	1430	215	0.02	35	2	42
CC63761	<10	<1	0.04	20	0.24	153	9	0.01	11	2220	44	0.02	11	2	71
CC63762	<10	<1	0.05	20	0.47	232	15	0.01	32	530	58	0.01	11	5	45
CC63763	<10	<1	0.06	20	0.45	314	19	0.01	51	730	85	0.02	11	4	35
CC63764	10	<1	0.03	10	0.19	391	29	0.01	32	340	176	0.01	9	3	25
CC63765	10	<1	0.05	20	0.47	323	12	0.01	111	470	135	0.01	12	9	24
CC63766	<10	<1	0.02	10	0.37	780	14	0.01	125	780	39	0.02	6	4	16
CC63767	<10	1	0.05	10	0.27	212	37	0.01	69	530	202	0.02	20	3	43
CC63768	<10	1	0.06	10	0.45	208	21	0.01	60	1080	102	0.05	20	3	125
CC63769	<10	<1	0.03	10	0.13	131	68	0.01	92	1390	208	0.07	14	1	19
CC63770	<10	<1	0.03	10	0.40	273	28	0.01	54	420	158	0.13	4	3	14
CC63771	<10	1	0.05	10	0.21	173	34	0.01	107	1340	2620	0.34	490	4	55
CC63772	<10	<1	0.04	10	0.15	169	26	0.01	71	1190	342	0.49	80	3	103
CC63773	<10	<1	0.03	10	0.12	153	27	0.01	52	820	119	0.20	28	1	37
CC63774	<10	<1	0.02	10	0.12	759	25	0.01	245	1250	546	0.10	185	8	33
CC63775	10	<1	0.02	10	0.02	95	55	0.01	75	780	159	0.03	6	<1	8
CC63776	<10	<1	0.03	10	0.05	116	50	0.01	72	570	116	0.02	7	1	16
CC63777	<10	<1	0.03	10	0.07	99	53	0.01	86	860	131	0.01	13	1	20
CC63778	<10	<1	0.03	10	0.06	58	74	0.01	137	1090	199	0.02	24	1	20
CC63779	10	<1	0.04	10	0.42	445	7	0.01	21	500	41	0.01	3	4	13
CC63780	10	<1	0.03	10	0.14	74	16	0.01	16	320	152	0.01	7	2	24
CC63781	<10	<1	0.02	10	0.11	77	14	0.01	15	320	72	0.01	9	1	24
CC63784	<10	<1	0.05	10	0.84	518	1	0.01	25	1160	22	0.03	<2	2	32
CC63785	<10	<1	0.05	10	0.43	131	1	0.01	14	910	22	0.04	<2	2	29
CC63786	<10	<1	0.02	10	8.07	560	1	0.03	6	550	69	0.05	8	1	55
CC63787	<10	<1	0.06	10	0.70	328	1	0.02	31	1170	33	0.06	4	3	21
CC63788	<10	<1	0.04	10	0.81	605	1	0.02	21	930	19	0.10	<2	1	27
CC63789	<10	<1	0.04	10	3.97	547	1	0.02	21	1010	20	0.02	4	2	40
CC63790	<10	<1	0.06	10	0.78	667	1	0.02	27	1060	28	0.06	<2	2	27
CC63791	<10	<1	0.06	10	2.22	801	1	0.02	27	1000	27	0.05	2	2	35
CC63792	<10	<1	0.07	10	2.47	620	1	0.02	27	1010	27	0.04	2	3	36
CC63793	<10	<1	0.05	10	3.60	453	1	0.02	22	950	27	0.04	3	3	42
CC63794	<10	<1	0.07	10	3.38	762	1	0.02	34	980	30	0.03	2	3	36
CC63795	<10	<1	0.06	10	2.19	502	1	0.01	31	900	32	0.03	4	3	27
CC63796	<10	<1	0.04	10	4.40	527	1	0.02	19	890	23	0.02	3	2	49
CC63797	<10	<1	0.07	10	1.51	629	1	0.02	25	960	60	0.05	5	3	31
CC63798	<10	<1	0.06	10	1.57	442	1	0.02	23	1060	24	0.06	2	2	26
CC63799	<10	<1	0.05	10	1.02	863	1	0.02	23	1080	31	0.09	3	1	22

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CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC63758		<20	<0.01	<10	<10	57	<10	677	
CC63759		<20	0.01	<10	<10	87	<10	438	
CC63760		<20	0.03	<10	10	138	<10	144	
CC63761		<20	0.03	<10	<10	115	<10	61	
CC63762		<20	0.05	<10	10	114	<10	115	
CC63763		<20	0.05	<10	<10	106	<10	247	
CC63764		<20	0.03	<10	<10	105	<10	188	
CC63765		<20	0.04	<10	<10	97	<10	276	
CC63766		<20	0.02	<10	<10	59	<10	193	
CC63767		<20	0.04	<10	<10	97	<10	314	
CC63768		<20	0.03	<10	<10	186	<10	278	
CC63769		<20	0.02	<10	<10	73	<10	392	
CC63770		<20	0.04	<10	<10	83	<10	702	
CC63771		<20	0.02	<10	<10	49	<10	958	
CC63772		<20	0.01	<10	10	41	<10	469	
CC63773		<20	0.02	<10	<10	74	<10	377	
CC63774		<20	0.01	<10	<10	20	<10	1660	
CC63775		<20	0.01	<10	<10	43	<10	253	
CC63776		<20	0.02	<10	<10	66	<10	326	
CC63777		<20	0.02	<10	<10	64	<10	382	
CC63778		<20	0.01	<10	<10	112	<10	540	
CC63779		<20	0.05	<10	<10	103	<10	219	
CC63780		<20	0.03	<10	<10	95	<10	86	
CC63781		<20	0.04	<10	<10	100	<10	76	
CC63784		<20	0.01	<10	<10	31	<10	175	
CC63785		<20	0.01	<10	<10	31	<10	98	
CC63786		<20	0.01	<10	<10	18	<10	133	
CC63787		<20	0.03	<10	<10	42	<10	247	
CC63788		<20	0.01	<10	<10	24	<10	111	
CC63789		<20	0.01	<10	<10	27	<10	121	
CC63790		<20	0.02	<10	<10	36	<10	148	
CC63791		<20	0.02	<10	<10	32	<10	141	
CC63792		<20	0.02	<10	<10	36	<10	152	
CC63793		<20	0.02	<10	<10	34	<10	147	
CC63794		<20	0.02	<10	<10	38	<10	147	
CC63795		<20	0.02	<10	<10	39	<10	141	
CC63796		<20	0.01	<10	<10	24	<10	112	
CC63797		<20	0.02	<10	<10	33	<10	239	
CC63798		<20	0.02	<10	<10	36	<10	153	
CC63799		<20	0.01	<10	<10	42	<10	188	

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63800		0.16	0.002	0.3	1.00	25	<10	240	<0.5	<2	3.84	0.6	8	20	32	2.49
CC63801		0.12	0.005	0.4	0.77	20	<10	190	<0.5	<2	7.24	0.7	7	21	26	1.72
CC63802		0.14	0.002	0.3	0.69	21	<10	180	<0.5	<2	8.96	<0.5	5	12	8	1.45
CC63803		0.16	0.010	0.2	0.48	37	<10	140	<0.5	<2	10.25	0.6	7	8	9	1.56
CC63804		0.10	0.009	0.3	0.87	21	<10	170	<0.5	<2	5.99	0.8	7	14	14	1.81
CC63805		0.20	0.015	0.2	0.52	40	<10	100	<0.5	<2	10.05	<0.5	5	8	8	1.52
CC63806		0.10	0.015	0.6	0.78	35	<10	280	<0.5	<2	2.59	<0.5	9	10	10	2.89
CC63807		0.14	0.039	0.7	1.32	42	<10	260	0.6	<2	1.69	0.6	11	22	26	2.86
CC63808		0.12	0.035	0.4	1.23	10	<10	190	0.5	<2	1.26	1.5	7	22	24	1.76
CC63809		0.08	0.005	<0.2	0.62	13	<10	80	<0.5	<2	4.35	0.5	5	9	8	1.42
CC63810		0.14	0.011	<0.2	1.16	33	<10	130	0.5	2	0.61	<0.5	6	17	11	2.14
CC63815		0.18	0.009	0.3	0.90	19	<10	210	<0.5	<2	5.42	0.8	8	18	23	2.31
CC63816		0.18	0.008	0.3	1.20	26	<10	240	0.5	<2	4.10	0.6	9	24	22	2.55
CC63817		0.28	0.005	0.4	1.22	17	<10	260	<0.5	<2	5.13	0.7	9	25	20	2.39
CC63818		0.28	0.019	1.0	1.02	40	<10	340	<0.5	<2	6.62	0.8	8	20	33	2.18
CC63819		0.32	0.008	0.4	1.04	16	<10	360	<0.5	<2	5.47	0.8	8	23	27	2.30
CC63820		0.08	0.024	0.4	1.09	17	<10	300	<0.5	<2	3.48	0.7	9	27	26	2.33
CC63821		0.24	0.004	0.3	1.10	16	<10	210	<0.5	<2	6.28	0.6	14	28	33	3.29
CC63822		0.26	0.006	0.4	1.07	10	<10	180	<0.5	<2	7.65	0.6	9	23	22	2.24
CC63823		0.20	0.006	0.3	0.78	16	<10	170	<0.5	<2	5.04	0.9	9	16	15	2.32
CC63824		0.14	0.006	0.3	0.95	13	<10	360	<0.5	<2	3.95	0.8	8	23	21	2.17
CC63825		0.20	0.007	0.5	0.36	62	<10	90	<0.5	<2	15.9	0.7	3	7	4	1.33
CC63826		0.26	0.003	0.4	1.54	18	<10	230	0.6	<2	2.38	<0.5	10	28	22	3.17
CC63827		0.06	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC63828		0.20	0.004	0.2	1.24	13	<10	170	<0.5	<2	7.62	0.8	11	45	19	2.30
CC63829		0.20	0.004	0.3	1.30	21	<10	250	<0.5	<2	5.60	1.2	12	37	30	2.86
CC63830		0.10	0.009	0.4	1.10	9	<10	310	<0.5	<2	1.33	0.8	5	24	24	1.71
CC63831		0.10	0.008	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC63832		0.14	0.007	0.4	1.15	29	<10	310	<0.5	<2	1.82	0.9	10	24	27	2.90
CC63833		0.12	0.006	0.4	1.33	22	<10	290	0.5	3	1.44	0.6	10	30	20	2.98
CC63834		0.26	0.006	0.5	1.32	18	<10	410	0.5	<2	2.13	1.2	12	30	34	3.05
CC63835		0.26	0.005	0.4	1.10	18	<10	310	<0.5	<2	3.73	0.9	9	23	26	2.61
CC63836		0.20	0.005	0.2	0.85	20	<10	250	<0.5	<2	4.26	0.6	7	18	21	2.03
CC63837		0.30	0.006	0.2	1.03	20	<10	250	<0.5	<2	4.69	0.6	9	22	27	2.45
CC63838		0.18	0.007	0.3	1.00	19	<10	330	<0.5	<2	3.06	0.7	8	21	26	2.25
CC63839		0.18	0.007	0.6	1.18	17	<10	450	<0.5	<2	1.88	0.7	9	26	31	2.43
CC63840		0.08	0.009	0.3	0.47	5	<10	330	<0.5	<2	4.36	1.5	3	8	18	0.90
CC63841		0.24	0.007	0.5	0.61	20	<10	160	<0.5	<2	9.18	1.1	6	13	14	1.51
CC63842		0.12	0.007	0.3	0.53	12	<10	300	<0.5	<2	3.94	2.4	3	6	32	0.87
CC63843		0.14	0.007	0.2	0.76	15	<10	160	<0.5	<2	4.63	2.0	6	11	10	1.34

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63800		<10	<1	0.06	10	2.21	526	1	0.02	26	980	23	0.05	3	2	29
CC63801		<10	<1	0.04	10	4.12	541	1	0.02	16	1090	17	0.07	<2	1	29
CC63802		<10	<1	0.03	10	5.86	367	1	0.02	11	640	15	0.02	<2	2	28
CC63803		<10	<1	0.03	10	6.39	385	<1	0.02	7	1080	17	0.04	2	1	38
CC63804		<10	<1	0.04	10	3.54	574	1	0.02	13	990	16	0.06	<2	1	24
CC63805		<10	<1	0.02	10	6.38	335	<1	0.02	6	1040	12	0.03	<2	1	32
CC63806		<10	<1	0.03	10	0.70	485	<1	0.02	8	1390	17	0.11	2	1	29
CC63807		<10	<1	0.04	10	0.57	839	<1	0.02	21	1290	34	0.08	3	2	21
CC63808		<10	<1	0.04	10	0.54	157	<1	0.02	17	1060	22	0.06	2	2	22
CC63809		<10	<1	0.02	<10	2.13	417	1	0.02	5	880	14	0.07	2	1	18
CC63810		<10	<1	0.03	10	0.38	727	<1	0.01	19	1180	20	0.03	2	2	13
CC63815		<10	<1	0.06	10	3.22	660	1	0.02	22	920	29	0.04	3	2	35
CC63816		<10	<1	0.08	10	2.39	747	1	0.02	26	820	21	0.05	<2	2	32
CC63817		<10	<1	0.07	10	3.00	592	1	0.02	25	670	20	0.04	<2	2	41
CC63818		<10	<1	0.06	10	4.42	575	1	<0.01	24	780	52	0.02	5	2	29
CC63819		<10	<1	0.09	10	3.41	552	1	<0.01	28	840	22	0.02	3	2	37
CC63820		<10	1	0.08	10	1.81	515	1	<0.01	29	870	23	0.05	2	2	32
CC63821		<10	<1	0.09	10	3.10	610	2	<0.01	58	800	17	0.03	3	2	50
CC63822		<10	<1	0.13	10	4.58	558	1	0.01	28	780	20	0.01	<2	3	61
CC63823		<10	<1	0.05	10	3.11	795	1	<0.01	24	910	19	0.01	4	2	33
CC63824		<10	1	0.05	10	1.99	554	1	<0.01	25	900	20	0.08	2	2	31
CC63825		<10	<1	0.01	<10	10.15	937	1	0.01	11	480	30	0.05	<2	1	60
CC63826		<10	1	0.04	10	1.67	609	1	<0.01	26	710	21	0.01	2	4	21
CC63827		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC63828		<10	1	0.06	10	5.42	653	1	0.01	40	800	16	0.03	2	3	41
CC63829		<10	<1	0.09	10	3.62	671	1	0.01	44	890	24	0.03	3	3	38
CC63830		<10	<1	0.06	10	0.59	159	1	<0.01	23	930	21	0.06	3	2	21
CC63831		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
CC63832		<10	1	0.06	10	0.97	483	1	<0.01	29	890	21	0.03	3	2	21
CC63833		<10	1	0.07	10	0.84	647	1	<0.01	30	640	24	0.03	<2	2	18
CC63834		<10	<1	0.08	10	1.00	759	1	<0.01	40	1010	20	0.05	3	2	28
CC63835		<10	1	0.06	10	2.08	625	1	<0.01	29	1020	21	0.03	<2	2	34
CC63836		<10	<1	0.05	10	2.43	316	1	<0.01	20	930	18	0.02	<2	2	31
CC63837		<10	<1	0.07	10	2.87	432	1	<0.01	27	960	20	0.01	5	2	34
CC63838		<10	1	0.06	10	1.39	493	1	<0.01	26	930	18	0.05	4	2	26
CC63839		<10	<1	0.06	10	0.74	361	1	<0.01	26	1100	23	0.06	5	2	23
CC63840		<10	1	0.02	<10	0.56	255	<1	<0.01	10	740	7	0.12	2	<1	33
CC63841		<10	<1	0.05	10	5.95	615	1	<0.01	17	610	17	0.02	<2	1	34
CC63842		<10	1	0.02	<10	0.69	594	<1	0.02	6	860	17	0.17	3	<1	19
CC63843		<10	1	0.02	<10	1.91	692	<1	<0.01	8	680	43	0.07	<2	1	18

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 31-AUG-2009
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CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC63800		<20	0.01	<10	<10	34	<10	126	
CC63801		<20	0.01	<10	<10	33	<10	109	
CC63802		<20	0.02	<10	<10	33	<10	90	
CC63803		<20	0.01	<10	<10	22	<10	229	
CC63804		<20	0.02	<10	<10	30	<10	111	
CC63805		<20	0.01	<10	<10	21	<10	152	
CC63806		<20	0.01	<10	<10	25	<10	138	
CC63807		<20	0.02	<10	<10	46	<10	219	
CC63808		<20	0.02	<10	<10	38	<10	132	
CC63809		<20	0.01	<10	<10	23	<10	75	
CC63810		<20	0.02	<10	<10	39	<10	92	
CC63815		<20	0.01	<10	<10	29	<10	141	
CC63816		<20	0.02	<10	<10	35	<10	131	
CC63817		<20	0.02	<10	<10	36	<10	104	
CC63818		<20	0.02	<10	<10	29	<10	241	
CC63819		<20	0.02	<10	<10	29	<10	143	
CC63820		<20	0.02	<10	<10	31	<10	131	
CC63821		<20	0.02	<10	<10	29	<10	136	
CC63822		<20	0.02	<10	<10	29	<10	134	
CC63823		<20	0.01	<10	<10	25	<10	130	
CC63824		<20	0.02	<10	<10	29	<10	132	
CC63825		<20	0.01	<10	<10	36	<10	205	
CC63826		<20	0.02	<10	<10	46	<10	97	
CC63827		NSS	NSS	NSS	NSS	NSS	NSS	NSS	
CC63828		<20	0.03	<10	<10	33	<10	117	
CC63829		<20	0.02	<10	<10	36	<10	172	
CC63830		<20	0.01	<10	<10	30	<10	138	
CC63831		NSS	NSS	NSS	NSS	NSS	NSS	NSS	
CC63832		<20	0.02	<10	<10	36	<10	159	
CC63833		<20	0.02	<10	<10	39	<10	182	
CC63834		<20	0.02	<10	<10	37	<10	167	
CC63835		<20	0.02	<10	<10	32	<10	145	
CC63836		<20	0.01	<10	<10	26	<10	115	
CC63837		<20	0.02	<10	<10	30	<10	139	
CC63838		<20	0.01	<10	<10	29	<10	125	
CC63839		<20	0.02	<10	<10	35	<10	164	
CC63840		<20	0.01	<10	<10	12	<10	158	
CC63841		<20	0.01	<10	<10	23	<10	147	
CC63842		<20	0.01	<10	<10	14	<10	174	
CC63843		<20	0.01	<10	<10	26	<10	171	

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Project: RAU

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CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63844		0.16	0.009	0.5	1.02	17	<10	220	0.5	<2	2.36	1.6	7	16	24	1.89
CC63845		0.06	NSS	0.2	0.74	4	<10	150	<0.5	<2	3.24	0.9	4	9	11	1.06
CC63846		0.14	0.024	0.4	0.98	19	<10	270	<0.5	<2	2.43	0.8	7	17	22	2.02
CC63847		0.20	0.005	0.4	0.81	22	<10	160	<0.5	<2	6.88	0.8	7	15	16	1.98
CC63848		0.22	0.001	<0.2	1.52	12	<10	230	0.5	<2	1.23	<0.5	8	23	15	2.49
CC63849		0.20	0.004	<0.2	1.15	14	<10	140	<0.5	<2	2.08	0.6	6	19	8	2.30
CC63850		0.12	0.011	0.6	1.06	19	<10	240	0.5	<2	3.28	1.3	8	17	23	2.26
CC63865		0.16	0.009	0.4	1.03	25	<10	190	<0.5	<2	4.76	0.8	9	20	23	2.49
CC63866		0.14	0.009	0.4	1.05	25	<10	210	0.5	<2	4.89	0.5	10	20	19	2.59
CC63867		0.08	0.016	0.6	0.97	30	<10	280	<0.5	<2	5.26	1.2	9	19	33	2.22
CC63868		0.14	0.010	0.3	0.87	22	<10	200	<0.5	<2	6.70	0.9	7	20	22	1.98
CC63869		0.08	0.006	0.4	1.04	14	<10	380	<0.5	<2	2.31	0.5	9	23	24	2.13
CC63870		0.12	0.018	0.6	1.38	17	<10	440	0.6	<2	1.78	0.7	12	30	27	2.72
CC63871		0.14	0.011	0.5	1.25	6	<10	320	0.5	<2	1.18	1.0	8	29	27	1.84
CC63872		0.16	0.009	0.5	1.07	23	<10	210	<0.5	<2	6.07	0.8	9	24	22	2.27
CC63873		0.10	0.005	0.4	1.19	17	<10	340	<0.5	<2	3.41	0.9	10	27	26	2.52
CC63874		0.10	0.006	0.4	1.21	14	<10	330	<0.5	<2	2.64	1.5	10	31	27	2.52
CC63875		0.14	0.004	0.4	1.17	14	<10	250	<0.5	<2	5.28	0.7	9	32	23	2.19
CC63876		0.12	0.007	0.4	1.15	12	<10	260	<0.5	<2	4.96	0.6	10	32	24	2.33
CC63877		0.18	0.004	0.5	1.50	20	<10	200	<0.5	<2	6.22	0.6	13	51	25	2.83
CC63878		0.18	0.002	0.4	1.08	12	<10	130	<0.5	<2	6.15	0.5	9	31	21	2.28
CC63879		0.12	0.004	<0.2	2.66	6	<10	190	<0.5	<2	1.68	<0.5	36	122	61	4.73
CC63880		0.14	0.003	0.4	1.19	13	<10	230	0.5	<2	2.76	0.6	9	21	20	2.42
CC63881		0.08	0.002	<0.2	0.82	8	<10	180	<0.5	<2	5.35	<0.5	8	16	13	2.03
CC63882		0.08	0.003	0.5	1.29	11	<10	210	0.5	<2	1.60	0.6	10	22	24	2.75
CC63883		0.14	0.011	0.2	0.91	32	<10	300	<0.5	<2	1.03	0.7	7	20	28	3.14
CC63884		0.14	0.010	0.4	0.76	14	<10	190	<0.5	<2	8.13	1.2	6	15	15	1.74
CC63885		0.10	0.007	0.5	1.28	13	<10	300	0.5	<2	1.10	0.7	8	26	27	2.30
CC63886		0.12	0.006	0.5	1.24	17	<10	310	0.5	<2	1.03	0.8	9	25	29	2.74
CC63887		0.18	0.003	0.3	0.78	17	<10	180	<0.5	<2	6.57	0.5	8	17	18	2.47
CC63888		0.12	0.006	0.3	0.69	24	<10	220	<0.5	<2	6.99	0.6	6	15	21	1.98
CC63889		0.18	0.003	0.5	0.85	25	<10	170	<0.5	<2	7.38	0.7	9	22	22	2.57
CC63890		0.08	0.007	0.3	1.12	30	<10	300	<0.5	<2	3.80	0.8	10	27	23	2.87
CC63891		0.14	0.004	0.4	0.96	19	<10	240	<0.5	<2	4.31	0.7	8	19	20	2.46
CC63892		0.12	0.004	0.4	0.86	21	<10	250	<0.5	<2	3.27	0.7	7	18	21	2.14
CC63893		0.12	0.006	0.4	1.05	20	<10	340	<0.5	<2	2.89	0.7	8	21	26	2.34
CC63894		0.16	0.006	0.5	0.91	25	<10	340	<0.5	<2	4.61	0.7	8	19	26	2.32
CC63895		0.16	0.009	0.5	1.14	29	<10	430	<0.5	<2	5.14	0.7	10	28	34	2.68
CC63896		0.16	0.011	0.4	1.05	33	<10	300	<0.5	<2	5.37	0.7	8	21	30	2.57
CC63897		0.16	0.012	0.6	1.16	42	<10	310	0.5	<2	4.41	1.0	8	22	30	2.61

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63844		<10	<1	0.04	10	0.54	746	1	<0.01	19	960	41	0.08	2	1	16
CC63845		<10	<1	0.02	<10	0.72	446	1	0.01	6	960	8	0.12	<2	1	17
CC63846		<10	1	0.06	10	0.57	429	1	0.01	20	910	19	0.09	3	1	22
CC63847		<10	<1	0.05	10	4.27	509	1	0.01	20	910	23	<0.01	<2	2	32
CC63848		<10	<1	0.04	10	0.49	404	1	0.01	18	430	17	0.03	2	3	15
CC63849		<10	<1	0.03	10	1.07	430	1	<0.01	11	710	24	0.03	<2	2	15
CC63850		<10	1	0.04	10	1.19	1185	1	<0.01	17	1130	23	0.08	<2	1	21
CC63865		<10	<1	0.07	10	2.91	542	1	<0.01	22	920	28	0.01	2	2	31
CC63866		<10	1	0.06	10	3.00	500	1	0.01	24	920	26	0.02	3	2	32
CC63867		<10	<1	0.05	10	2.73	924	1	0.01	21	940	27	0.06	<2	2	31
CC63868		<10	<1	0.06	10	4.15	569	1	0.01	20	790	23	0.05	3	2	33
CC63869		<10	1	0.06	10	0.65	579	1	0.01	24	690	24	0.10	3	2	24
CC63870		<10	<1	0.07	10	0.77	783	1	0.01	32	830	28	0.07	3	2	21
CC63871		<10	1	0.07	10	0.63	283	<1	0.01	28	830	25	0.06	<2	2	19
CC63872		<10	<1	0.07	10	4.11	704	1	0.01	30	920	24	0.02	<2	2	38
CC63873		<10	<1	0.07	10	1.66	839	1	0.02	31	840	22	0.07	3	2	35
CC63874		<10	<1	0.08	10	1.26	511	1	0.01	34	760	20	0.06	3	2	31
CC63875		<10	<1	0.08	10	3.34	350	1	0.02	31	890	21	0.05	3	3	36
CC63876		<10	<1	0.08	10	3.18	620	1	0.02	32	900	21	0.05	<2	3	34
CC63877		<10	<1	0.10	10	4.77	568	1	0.02	47	820	22	0.03	2	4	40
CC63878		<10	<1	0.08	10	4.31	390	1	0.01	31	790	19	0.02	2	3	37
CC63879		<10	1	0.05	10	3.35	637	1	0.01	161	670	9	0.06	<2	7	20
CC63880		<10	<1	0.05	10	1.52	579	1	0.01	24	750	18	0.04	2	2	27
CC63881		<10	1	0.03	10	1.88	400	1	0.01	18	430	9	0.06	3	2	37
CC63882		<10	1	0.05	10	0.88	735	1	0.01	26	700	21	0.04	<2	3	23
CC63883		<10	<1	0.05	10	0.44	114	1	0.01	20	990	24	0.08	5	2	21
CC63884		<10	1	0.05	10	4.97	385	1	0.02	14	680	19	0.05	3	1	38
CC63885		<10	<1	0.06	10	0.57	199	1	0.01	27	980	28	0.05	2	3	25
CC63886		<10	1	0.06	10	0.54	189	1	0.01	30	1000	23	0.05	2	3	27
CC63887		<10	<1	0.03	10	4.24	568	1	0.01	21	890	17	0.02	<2	2	39
CC63888		<10	<1	0.06	10	4.44	380	1	0.02	19	750	15	0.03	<2	2	48
CC63889		<10	1	0.08	10	4.92	489	1	0.02	26	950	20	0.03	2	3	45
CC63890		<10	1	0.08	10	2.10	441	1	0.01	29	850	26	0.06	<2	3	28
CC63891		<10	<1	0.08	10	2.50	601	1	0.01	23	960	22	0.03	3	2	33
CC63892		<10	<1	0.05	10	1.75	415	1	0.01	21	970	21	0.04	<2	2	31
CC63893		<10	<1	0.08	10	1.54	515	1	0.01	27	980	23	0.05	3	2	29
CC63894		<10	<1	0.07	10	2.63	962	1	0.01	27	940	22	0.04	2	2	35
CC63895		<10	<1	0.10	10	3.21	521	2	0.02	31	1040	27	0.03	4	3	37
CC63896		<10	1	0.08	10	3.42	444	1	0.02	29	980	27	0.02	5	2	35
CC63897		<10	<1	0.08	10	2.57	639	1	0.02	27	940	98	0.05	4	2	30

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC63844		<20	0.02	<10	<10	31	<10	176	
CC63845		<20	0.02	<10	<10	19	<10	81	
CC63846		<20	0.01	<10	<10	28	<10	131	
CC63847		<20	0.02	<10	<10	27	<10	141	
CC63848		<20	0.02	<10	<10	48	<10	111	
CC63849		<20	0.02	<10	<10	48	<10	152	
CC63850		<20	0.02	<10	<10	33	<10	135	
CC63865		<20	0.02	<10	<10	32	<10	163	
CC63866		<20	0.01	<10	<10	31	<10	139	
CC63867		<20	0.01	<10	<10	33	<10	254	
CC63868		<20	0.01	<10	<10	29	<10	197	
CC63869		<20	0.01	<10	<10	30	<10	178	
CC63870		<20	0.02	<10	<10	39	<10	206	
CC63871		<20	0.02	<10	<10	37	<10	194	
CC63872		<20	0.02	<10	<10	32	<10	190	
CC63873		<20	0.02	<10	<10	32	<10	159	
CC63874		<20	0.02	<10	<10	33	<10	187	
CC63875		<20	0.02	<10	<10	32	<10	161	
CC63876		<20	0.02	<10	<10	33	<10	139	
CC63877		<20	0.03	<10	<10	39	<10	158	
CC63878		<20	0.02	<10	<10	29	<10	128	
CC63879		<20	0.03	<10	<10	63	<10	97	
CC63880		<20	0.01	<10	<10	34	<10	101	
CC63881		<20	0.02	<10	<10	24	<10	43	
CC63882		<20	0.02	<10	<10	38	<10	112	
CC63883		<20	0.02	<10	<10	34	<10	123	
CC63884		<20	0.01	<10	<10	22	<10	307	
CC63885		<20	0.02	<10	<10	40	<10	146	
CC63886		<20	0.01	<10	<10	37	<10	143	
CC63887		<20	0.01	<10	<10	26	<10	129	
CC63888		<20	0.02	<10	<10	24	<10	103	
CC63889		<20	0.02	<10	<10	28	<10	129	
CC63890		<20	0.02	<10	<10	36	<10	141	
CC63891		<20	0.01	<10	<10	31	<10	143	
CC63892		<20	0.01	<10	<10	28	<10	107	
CC63893		<20	0.02	<10	<10	32	<10	142	
CC63894		<20	0.01	<10	<10	28	<10	131	
CC63895		<20	0.02	<10	<10	37	<10	158	
CC63896		<20	0.02	<10	<10	34	<10	145	
CC63897		<20	0.02	<10	<10	37	<10	209	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63898		0.10	0.021	0.7	1.15	91	<10	320	0.5	2	2.22	2.8	8	19	24	2.88
CC63899		0.12	0.029	1.2	1.08	212	<10	310	0.5	5	1.95	4.9	9	17	33	4.23
CC63900		0.12	0.016	0.6	1.05	29	<10	260	<0.5	<2	3.38	2.7	9	17	23	2.41
CC63901		0.06	0.016	0.8	1.00	28	<10	270	<0.5	<2	2.78	2.7	6	17	23	2.08
CC63902		0.10	0.015	0.8	0.99	44	<10	230	<0.5	<2	3.25	2.5	6	16	25	2.21
CC63903		0.10	0.014	0.9	0.92	134	<10	300	0.5	3	2.63	1.4	7	15	25	3.77
CC63904		0.10	0.005	0.5	0.33	15	<10	110	<0.5	<2	13.05	0.7	3	5	11	0.79
CC63905		0.10	0.006	0.3	1.13	32	<10	360	0.5	<2	3.02	0.7	7	20	27	2.25
CC63906		0.14	0.003	0.3	0.80	19	<10	170	<0.5	<2	6.52	1.0	6	13	22	1.64
CC63907		0.16	0.007	0.4	0.57	16	<10	70	<0.5	<2	10.85	<0.5	5	10	10	1.22
CC63908		0.12	0.006	0.4	0.33	14	<10	60	<0.5	<2	13.8	0.6	3	5	7	0.70
CC63916		0.22	0.007	2.3	0.75	16	<10	530	0.6	<2	12.25	2.7	6	12	26	1.71
CC63917		0.16	0.005	0.9	0.85	13	<10	340	0.7	<2	9.91	2.8	6	13	17	1.75
CC63918		0.18	0.004	0.8	1.15	12	<10	170	0.9	<2	7.60	2.0	8	17	17	1.96
CC63919		0.16	0.005	1.9	0.89	11	<10	250	0.7	<2	9.85	3.2	7	13	32	1.63
CC63920		0.14	0.004	0.6	1.71	11	<10	220	0.8	<2	5.27	1.5	10	24	44	2.49
CC63921		0.18	0.010	0.6	0.84	14	<10	260	0.5	<2	10.90	1.2	6	12	17	1.33
CC63922		0.20	0.004	0.7	1.16	16	<10	330	0.6	<2	8.20	1.7	7	17	45	1.91
CC63923		0.26	0.006	0.7	0.48	9	<10	1620	<0.5	<2	12.20	1.7	4	8	16	1.07
CC63924		0.22	0.003	0.2	0.34	3	<10	100	<0.5	<2	15.1	1.0	3	5	7	0.57
CC63925		0.26	0.003	1.8	0.59	18	<10	540	0.6	<2	11.55	3.9	5	8	20	1.47
CC63926		0.20	0.002	0.7	0.24	9	<10	1270	<0.5	<2	17.2	2.9	2	3	13	0.45
CC63927		0.32	0.003	1.5	0.19	15	<10	2510	<0.5	<2	16.2	3.4	2	2	18	1.46
CC63928		0.28	0.001	0.8	0.20	4	<10	260	<0.5	<2	16.4	2.7	2	3	10	0.69
CC63929		0.32	0.002	0.5	0.23	13	<10	150	<0.5	<2	15.5	1.4	3	4	8	0.91
CC63930		0.22	0.003	0.5	0.80	11	<10	230	0.6	<2	8.60	1.8	6	12	15	1.89
CC63931		0.28	0.002	0.4	0.37	16	<10	140	<0.5	<2	14.2	1.1	4	7	9	1.17
CC63932		0.28	0.002	0.3	0.25	4	<10	320	<0.5	<2	15.5	2.0	3	4	9	0.94
CC63933		0.36	0.003	0.3	0.34	20	<10	240	0.5	<2	11.30	2.0	9	7	17	2.26
CC63934		0.24	0.006	0.3	0.77	14	<10	110	0.5	<2	7.79	1.2	8	14	18	2.15
CC63935		0.26	0.002	0.7	0.47	10	<10	750	0.5	<2	9.66	1.1	8	9	21	2.03
CC63936		0.36	0.004	0.4	0.48	12	<10	700	<0.5	<2	13.1	0.8	9	12	15	2.28
CC63937		0.24	0.003	0.5	0.52	13	<10	120	<0.5	<2	12.85	0.8	10	10	17	2.23
CC63938		0.22	0.003	0.4	0.59	6	<10	130	0.8	<2	5.21	1.0	12	8	20	3.37
CC63939		0.30	0.002	0.5	0.25	7	<10	230	0.6	<2	12.90	1.5	7	5	12	1.93
CC63940		0.32	0.006	0.4	0.38	23	<10	540	<0.5	<2	11.80	0.8	8	8	15	1.87
CC63941		0.26	0.003	0.4	0.27	20	<10	140	<0.5	<2	15.6	0.6	6	4	12	1.65
CC63942		0.26	0.005	0.6	0.68	37	<10	290	0.6	<2	9.78	0.9	9	10	26	2.29
CC63943		0.32	0.002	0.3	0.26	16	<10	70	<0.5	<2	20.1	<0.5	7	4	16	1.31
CC63944		0.32	0.004	0.3	0.36	6	<10	60	<0.5	<2	19.0	<0.5	5	5	11	1.19

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63898		<10	<1	0.06	10	0.60	741	1	0.01	20	880	155	0.09	5	2	18
CC63899		<10	<1	0.07	10	0.54	1055	1	0.01	24	1020	489	0.08	13	2	17
CC63900		<10	1	0.06	10	1.60	586	1	0.01	24	1010	64	0.07	3	1	21
CC63901		<10	1	0.07	10	0.82	649	1	0.02	16	1000	126	0.10	3	1	18
CC63902		<10	1	0.05	10	1.18	651	1	0.02	14	950	165	0.11	3	1	18
CC63903		<10	<1	0.05	10	0.58	1035	1	0.01	16	1250	105	0.11	7	1	19
CC63904		<10	1	0.02	<10	8.16	516	<1	0.01	5	820	9	0.05	<2	<1	36
CC63905		<10	<1	0.08	10	1.31	591	1	0.01	22	980	41	0.07	3	1	21
CC63906		<10	<1	0.04	10	3.52	548	<1	0.02	12	990	18	0.08	2	1	24
CC63907		<10	<1	0.03	<10	7.28	317	<1	0.01	8	630	10	0.02	4	1	28
CC63908		<10	<1	0.02	<10	8.90	447	<1	0.02	2	680	6	0.04	<2	<1	31
CC63916		<10	<1	0.04	10	7.19	1815	2	0.02	15	570	110	0.05	14	1	65
CC63917		<10	<1	0.04	10	6.50	1495	2	0.01	22	580	77	0.04	2	2	66
CC63918		<10	<1	0.05	10	5.02	1040	3	0.02	20	730	100	0.05	4	2	47
CC63919		<10	<1	0.04	10	6.40	900	3	0.02	16	770	81	0.05	9	1	49
CC63920		<10	<1	0.14	10	2.96	952	2	0.03	21	1150	77	0.12	4	1	27
CC63921		<10	<1	0.10	10	7.05	792	2	0.02	13	630	49	0.05	2	1	44
CC63922		<10	<1	0.08	10	4.89	1330	2	0.02	17	740	249	0.05	3	1	28
CC63923		<10	<1	0.06	10	7.69	1040	1	0.02	15	450	154	0.07	5	1	50
CC63924		<10	<1	0.03	<10	9.62	806	1	0.02	4	460	29	<0.01	<2	<1	38
CC63925		<10	<1	0.03	10	7.12	2200	3	0.02	17	670	92	0.08	3	1	53
CC63926		<10	<1	0.02	<10	10.95	1315	<1	0.02	5	360	70	<0.01	3	<1	70
CC63927		<10	1	0.01	<10	10.00	3330	2	0.02	8	270	315	0.08	7	1	86
CC63928		<10	<1	0.02	10	10.40	1480	1	0.01	7	330	67	<0.01	3	1	66
CC63929		<10	<1	0.03	10	9.85	1145	1	0.01	9	330	51	0.03	<2	1	59
CC63930		<10	<1	0.04	10	5.03	2190	1	0.01	16	1080	39	0.09	<2	1	33
CC63931		<10	<1	0.03	10	8.97	911	2	0.01	12	380	38	0.03	<2	1	49
CC63932		<10	1	0.02	10	9.91	1515	<1	0.02	8	260	42	0.04	<2	1	57
CC63933		<10	<1	0.04	10	7.06	1375	2	0.02	29	290	76	0.05	<2	2	76
CC63934		<10	<1	0.05	10	4.81	780	2	0.01	24	760	55	0.08	<2	1	46
CC63935		<10	<1	0.06	10	6.09	818	1	0.02	26	460	43	0.08	<2	2	75
CC63936		<10	<1	0.07	10	5.10	2260	1	0.01	24	390	24	0.06	<2	2	131
CC63937		<10	1	0.09	10	3.75	1145	1	0.01	26	430	30	0.04	<2	2	120
CC63938		<10	<1	0.06	20	2.63	1050	1	0.01	26	720	23	0.06	2	2	53
CC63939		<10	<1	0.04	10	7.88	2390	1	0.02	19	420	18	0.05	<2	1	93
CC63940		<10	<1	0.03	10	5.56	757	2	0.02	21	430	25	0.04	2	2	92
CC63941		<10	1	0.05	10	5.20	1075	1	0.02	13	340	23	0.04	3	2	164
CC63942		<10	<1	0.07	10	3.68	1440	1	0.02	23	580	35	0.05	3	2	93
CC63943		<10	<1	0.06	<10	2.28	288	<1	0.02	14	220	13	<0.01	2	2	196
CC63944		<10	<1	0.05	<10	2.08	260	<1	0.02	11	360	11	<0.01	2	2	199

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC63898		<20	0.02	<10	<10	47	<10	455	
CC63899		<20	0.02	<10	<10	50	<10	1075	
CC63900		<20	0.01	<10	<10	38	<10	288	
CC63901		<20	0.02	<10	<10	38	<10	348	
CC63902		<20	0.01	<10	<10	37	<10	361	
CC63903		<20	0.01	<10	<10	47	<10	508	
CC63904		<20	0.01	<10	<10	17	<10	119	
CC63905		<20	0.01	<10	<10	36	<10	163	
CC63906		<20	0.01	<10	<10	26	<10	182	
CC63907		<20	0.02	<10	<10	19	<10	163	
CC63908		<20	0.01	<10	<10	10	<10	155	
CC63916		<20	0.01	<10	<10	23	<10	705	
CC63917		<20	0.02	<10	<10	29	<10	745	
CC63918		<20	0.02	<10	<10	34	<10	548	
CC63919		<20	0.02	<10	<10	28	<10	694	
CC63920		<20	0.02	<10	<10	53	<10	379	
CC63921		<20	0.01	<10	<10	25	<10	341	
CC63922		<20	0.02	<10	<10	32	<10	503	
CC63923		<20	0.01	<10	<10	20	<10	505	
CC63924		<20	0.01	<10	<10	10	<10	349	
CC63925		<20	0.01	<10	<10	21	<10	1160	
CC63926		<20	0.01	<10	<10	9	<10	659	
CC63927		<20	0.01	<10	<10	10	<10	900	
CC63928		<20	<0.01	<10	<10	10	<10	582	
CC63929		<20	0.01	<10	<10	8	<10	554	
CC63930		<20	0.01	<10	<10	22	<10	528	
CC63931		<20	0.01	<10	<10	13	<10	269	
CC63932		<20	0.01	<10	<10	8	<10	585	
CC63933		<20	0.01	<10	<10	12	<10	573	
CC63934		<20	0.01	<10	<10	23	<10	307	
CC63935		<20	0.01	<10	<10	14	<10	391	
CC63936		<20	0.02	<10	<10	10	<10	220	
CC63937		<20	0.02	<10	<10	12	<10	288	
CC63938		<20	0.01	<10	<10	13	<10	286	
CC63939		<20	0.01	<10	<10	8	<10	395	
CC63940		<20	0.02	<10	<10	15	<10	239	
CC63941		<20	0.01	<10	<10	6	<10	195	
CC63942		<20	0.01	<10	<10	17	<10	342	
CC63943		<20	0.01	<10	<10	6	<10	149	
CC63944		<20	0.01	<10	<10	7	<10	93	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63945		0.24	0.002	0.3	2.03	12	<10	170	<0.5	<2	6.12	1.5	24	80	38	4.78
CC63946		0.30	0.002	0.3	0.98	10	<10	90	<0.5	<2	7.69	0.6	12	27	23	2.92
CC63947		0.26	0.004	0.4	0.62	18	<10	110	<0.5	<2	9.62	0.7	15	23	23	3.34
CC63948		0.16	0.002	0.2	2.25	18	<10	240	0.6	<2	1.94	1.0	20	86	30	4.56
CC63949		0.26	0.003	0.2	1.56	13	<10	240	0.5	<2	5.33	0.9	19	56	36	4.26
CC63950		0.30	0.003	0.6	1.08	23	<10	500	0.6	<2	5.84	2.1	13	28	24	3.83
CC63951		0.20	0.012	0.6	0.98	46	<10	310	0.6	<2	7.04	2.2	13	16	27	3.56
CC63952		0.24	0.002	0.7	0.52	34	<10	300	<0.5	<2	16.5	2.0	11	11	18	3.00
CC63953		0.30	0.004	0.5	1.16	37	<10	390	0.5	<2	6.91	1.6	18	28	45	4.85
CC63954		0.18	0.004	0.6	1.18	20	<10	320	0.6	<2	7.14	3.7	10	18	30	3.71
CC63955		0.32	0.001	0.3	0.18	19	<10	10	<0.5	<2	23.3	<0.5	10	4	11	2.41
CC63956		0.18	0.002	0.5	0.57	28	<10	140	<0.5	<2	15.1	1.0	12	20	22	2.72
CC63957		0.22	0.001	0.4	0.53	11	<10	70	<0.5	<2	20.1	<0.5	9	16	18	1.81
CC63958		0.28	0.001	<0.2	1.83	13	<10	160	<0.5	<2	13.9	<0.5	19	76	40	3.45
CC63959		0.26	0.002	0.2	3.12	5	<10	100	0.5	<2	0.59	<0.5	27	92	56	5.28
CC63960		0.32	0.002	0.4	3.66	11	<10	180	0.8	<2	1.07	<0.5	48	96	140	7.51
CC63961		0.30	0.002	0.4	0.32	10	<10	20	<0.5	<2	24.0	<0.5	11	9	38	2.48
CC63962		0.28	0.001	<0.2	2.04	14	<10	30	<0.5	<2	17.4	<0.5	19	72	52	3.61
CC63963		0.26	0.002	0.3	0.15	10	<10	50	<0.5	<2	20.6	0.7	5	3	10	1.24
CC63964		0.24	0.002	0.7	0.19	15	<10	1910	<0.5	<2	16.8	2.3	10	3	22	1.88
CC63965		0.14	0.002	0.2	0.48	12	<10	360	0.5	<2	5.31	1.4	9	6	25	2.48
CC63966		0.18	0.002	0.3	0.32	8	<10	40	0.5	<2	13.2	<0.5	5	7	12	1.14
CC63967		0.22	0.002	0.2	0.39	13	<10	50	0.5	<2	10.30	<0.5	8	8	19	2.04
CC63968		0.16	0.002	0.3	0.32	11	<10	50	0.5	<2	13.25	<0.5	5	6	11	1.33
CC63969		0.24	0.003	0.3	0.41	16	<10	70	0.6	<2	12.4	<0.5	8	9	15	2.02
CC63970		0.14	0.001	0.7	0.74	12	<10	80	<0.5	<2	12.65	1.3	5	12	13	1.22
CC63971		0.12	0.003	0.4	0.30	10	<10	70	<0.5	<2	15.9	0.9	3	5	7	0.57
CC63972		0.12	0.004	1.9	0.44	16	<10	1440	<0.5	<2	14.9	2.3	3	7	20	1.25
CC63973		0.16	0.002	5.0	0.25	11	<10	2450	<0.5	<2	15.6	5.4	2	4	48	0.70
CC63974		0.16	0.005	1.0	0.46	12	<10	2160	<0.5	<2	13.10	1.3	5	8	14	1.17
CC63975		0.14	0.002	0.3	0.19	9	<10	130	<0.5	<2	16.8	0.8	2	3	8	0.54
CC63976		0.16	0.004	0.5	0.26	6	<10	120	<0.5	<2	16.1	1.4	3	4	7	0.68
CC63977		0.14	0.003	0.4	0.21	7	<10	60	<0.5	<2	16.6	0.9	2	3	6	0.49
CC63978		0.20	0.001	0.7	0.12	13	<10	70	<0.5	<2	17.4	0.8	2	2	23	1.14
CC63979		0.08	0.002	0.3	0.56	10	<10	120	0.5	<2	11.15	1.6	5	9	15	1.56
CC63980		0.14	0.002	0.4	0.31	11	<10	160	<0.5	<2	15.4	1.2	4	5	10	0.98
CC63981		0.16	0.003	0.8	0.40	13	<10	370	0.5	<2	11.55	2.5	8	7	17	1.82
CC63982		0.16	0.002	0.4	0.31	9	<10	140	<0.5	<2	13.6	1.1	6	6	13	1.40
CC63983		0.14	0.002	0.5	0.32	10	<10	100	<0.5	<2	13.6	1.0	5	6	12	1.08
CC63984		0.14	0.003	0.3	0.50	11	<10	150	0.5	<2	9.76	<0.5	9	7	18	2.25

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

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63945		10	<1	0.12	10	2.92	1470	1	0.01	81	990	49	0.06	4	5	108
CC63946		<10	<1	0.06	10	1.22	680	1	0.01	35	520	24	0.03	<2	3	95
CC63947		<10	<1	0.06	10	1.01	569	1	0.01	41	430	44	0.04	<2	3	114
CC63948		10	<1	0.08	10	2.47	2280	1	0.01	73	820	40	0.05	<2	6	27
CC63949		<10	1	0.07	10	2.09	1590	1	0.01	66	790	64	0.02	<2	5	59
CC63950		<10	1	0.11	20	1.35	2170	2	0.02	46	890	108	0.05	<2	4	60
CC63951		<10	<1	0.08	20	0.53	1690	1	0.01	37	940	129	0.07	3	2	95
CC63952		<10	1	0.08	10	0.61	1420	<1	0.01	32	930	116	<0.01	<2	3	335
CC63953		<10	1	0.07	20	0.71	1580	1	0.01	54	1350	74	0.03	<2	3	103
CC63954		<10	<1	0.06	20	0.62	4890	1	0.02	28	1240	174	0.11	2	2	35
CC63955		<10	1	0.05	10	0.78	321	<1	0.01	30	750	11	<0.01	<2	2	360
CC63956		<10	1	0.10	10	2.62	462	1	0.01	44	650	27	0.04	3	3	165
CC63957		<10	<1	0.06	<10	0.50	320	1	0.01	33	500	15	<0.01	<2	2	151
CC63958		<10	<1	0.18	<10	1.70	805	1	0.01	73	780	13	0.02	<2	4	304
CC63959		10	<1	0.14	10	2.90	729	<1	0.01	104	760	6	0.02	<2	2	22
CC63960		10	1	0.40	20	3.76	1750	<1	<0.01	177	1630	5	0.01	<2	7	40
CC63961		<10	<1	0.06	<10	0.41	623	1	0.01	48	270	6	<0.01	<2	3	859
CC63962		<10	1	0.14	<10	1.98	707	1	0.01	82	530	6	<0.01	<2	5	571
CC63963		<10	<1	0.06	<10	2.51	315	<1	0.01	15	560	31	<0.01	<2	2	232
CC63964		<10	<1	0.07	20	1.93	542	1	0.01	29	370	70	<0.01	2	2	191
CC63965		<10	<1	0.10	10	1.16	590	1	<0.01	28	640	33	0.07	<2	2	49
CC63966		<10	<1	0.05	10	8.31	331	<1	0.02	12	460	10	0.06	<2	1	80
CC63967		<10	<1	0.05	10	6.56	338	2	0.02	24	560	11	0.07	<2	1	80
CC63968		<10	1	0.04	10	8.45	408	4	0.02	14	870	17	0.08	<2	1	81
CC63969		<10	<1	0.04	10	7.78	310	4	0.01	24	520	17	0.05	<2	1	73
CC63970		<10	<1	0.04	10	8.04	439	2	0.02	11	520	57	0.04	2	1	28
CC63971		<10	<1	0.02	<10	10.10	511	1	0.01	7	530	36	0.04	<2	1	52
CC63972		<10	1	0.03	<10	9.41	1615	2	0.01	12	370	477	0.06	2	1	51
CC63973		<10	<1	0.02	<10	9.86	1390	2	0.01	6	420	242	<0.01	23	1	75
CC63974		<10	<1	0.04	10	8.49	400	2	0.02	13	530	51	0.12	<2	1	69
CC63975		<10	<1	0.03	<10	10.55	310	2	0.02	6	380	28	<0.01	<2	1	49
CC63976		<10	<1	0.03	10	10.20	1065	1	0.02	6	390	19	0.05	<2	1	46
CC63977		<10	<1	0.02	<10	10.60	463	1	0.02	5	370	25	<0.01	<2	1	39
CC63978		<10	<1	0.02	<10	11.25	1485	1	0.01	6	90	35	<0.01	3	1	35
CC63979		<10	<1	0.05	10	7.02	1465	1	0.02	13	650	33	0.09	<2	1	42
CC63980		<10	<1	0.04	10	9.76	1100	2	0.02	10	390	43	0.05	<2	1	84
CC63981		<10	<1	0.05	10	7.12	1600	2	0.02	21	420	107	0.05	6	2	79
CC63982		<10	<1	0.05	10	8.51	848	2	0.02	16	440	29	0.05	<2	1	93
CC63983		<10	<1	0.04	10	8.62	699	1	0.02	15	350	20	0.03	<2	1	82
CC63984		<10	<1	0.09	10	3.32	504	1	0.01	23	560	23	0.03	<2	2	102

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CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC63945		<20	0.12	<10	<10	40	<10	510	
CC63946		<20	0.06	<10	<10	23	<10	199	
CC63947		<20	0.04	<10	<10	15	<10	325	
CC63948		<20	0.09	<10	<10	55	<10	313	
CC63949		<20	0.05	<10	<10	40	<10	409	
CC63950		<20	0.03	<10	<10	29	<10	680	
CC63951		<20	0.01	<10	<10	21	<10	666	
CC63952		<20	0.01	<10	<10	12	<10	704	
CC63953		<20	0.02	<10	<10	27	<10	520	
CC63954		<20	0.01	<10	<10	31	<10	1080	
CC63955		<20	<0.01	<10	<10	3	<10	94	
CC63956		<20	0.02	<10	<10	9	<10	381	
CC63957		<20	0.02	<10	<10	10	<10	83	
CC63958		<20	0.20	<10	<10	37	<10	139	
CC63959		<20	0.47	<10	<10	81	<10	95	
CC63960		<20	0.24	<10	<10	76	<10	118	
CC63961		<20	0.04	<10	<10	5	<10	27	
CC63962		<20	0.14	<10	<10	37	<10	59	
CC63963		<20	<0.01	<10	<10	2	<10	203	
CC63964		<20	<0.01	<10	<10	5	<10	843	
CC63965		<20	0.01	<10	<10	8	<10	511	
CC63966		<20	0.01	<10	<10	10	<10	99	
CC63967		<20	0.01	<10	<10	11	<10	85	
CC63968		<20	0.01	<10	<10	10	<10	174	
CC63969		<20	0.01	<10	<10	15	<10	168	
CC63970		<20	0.02	<10	<10	23	<10	225	
CC63971		<20	0.01	<10	<10	10	<10	360	
CC63972		<20	0.01	<10	<10	19	<10	561	
CC63973		<20	0.01	<10	<10	9	<10	1110	
CC63974		<20	0.01	<10	<10	15	<10	443	
CC63975		<20	<0.01	<10	<10	6	<10	255	
CC63976		<20	0.01	<10	<10	8	<10	424	
CC63977		<20	<0.01	<10	<10	9	<10	284	
CC63978		<20	<0.01	<10	<10	10	<10	651	
CC63979		<20	0.01	<10	<10	15	<10	536	
CC63980		<20	0.01	<10	<10	9	<10	372	
CC63981		<20	0.01	<10	<10	12	<10	755	
CC63982		<20	0.01	<10	<10	9	<10	339	
CC63983		<20	0.01	<10	<10	10	<10	315	
CC63984		<20	0.01	<10	<10	10	<10	164	

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

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63985		0.14	0.004	0.4	0.65	17	<10	70	<0.5	<2	10.75	<0.5	10	17	20	2.55
CC63986		0.14	0.003	1.4	0.30	22	<10	2760	<0.5	<2	14.7	3.1	7	4	17	2.20
CC63987		0.14	0.005	1.0	0.41	54	<10	160	0.6	<2	10.75	0.8	11	7	49	2.75
CC63988		0.12	0.003	0.6	0.59	26	<10	160	0.5	<2	8.68	0.7	8	8	23	2.24
CC63989		0.12	0.002	0.3	0.30	5	<10	110	<0.5	<2	19.7	<0.5	5	4	10	1.16
CC63990		0.16	0.002	0.3	0.15	17	<10	30	<0.5	<2	24.8	<0.5	4	1	8	0.94
CC63991		0.18	0.004	0.7	0.27	37	<10	1190	<0.5	<2	21.2	1.0	5	4	16	1.38
CC63992		0.12	0.008	0.8	1.02	28	<10	190	<0.5	<2	7.99	1.0	17	37	28	3.49
CC63993		0.20	0.001	0.4	1.82	7	<10	710	<0.5	<2	8.45	1.6	17	74	25	3.58
CC63994		0.08	0.002	0.3	2.18	11	<10	1670	0.5	<2	1.74	1.9	22	81	32	4.77
CC63995		0.10	0.003	0.5	1.20	8	<10	460	0.5	<2	2.18	1.6	14	29	29	3.63
CC63996		0.12	0.002	0.5	0.87	11	<10	340	0.6	<2	2.12	2.1	10	14	20	3.37
CC63997		0.16	0.002	0.4	0.46	12	<10	2400	<0.5	<2	14.10	3.0	14	26	21	3.61
CC63998		0.16	0.003	0.7	0.39	25	<10	150	<0.5	<2	19.3	0.9	8	7	13	2.20
CC63999		0.14	0.002	0.4	0.49	25	<10	520	<0.5	<2	17.2	1.0	11	12	15	2.70
CC64000		0.14	0.005	0.9	0.49	60	<10	320	<0.5	8	18.3	1.8	11	11	19	3.10

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Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
CC63985		<10	<1	0.12	10	4.31	1070	1	0.01	33	450	30	0.04	<2	3	101
CC63986		<10	1	0.08	10	2.57	3560	1	0.01	17	360	63	0.07	6	2	167
CC63987		<10	<1	0.07	10	4.54	929	1	0.01	30	390	45	0.02	10	2	100
CC63988		<10	<1	0.08	10	3.90	1085	1	0.01	21	710	30	0.05	2	2	89
CC63989		<10	1	0.07	<10	2.49	604	<1	0.01	11	280	14	<0.01	<2	1	195
CC63990		<10	<1	0.05	<10	0.23	298	<1	0.01	9	110	23	<0.01	2	2	172
CC63991		<10	<1	0.06	<10	1.88	853	<1	0.01	11	260	40	<0.01	3	2	171
CC63992		<10	<1	0.11	10	5.51	1555	1	0.02	59	690	57	0.03	<2	3	56
CC63993		<10	<1	0.07	10	2.17	1040	1	0.01	59	650	36	0.02	<2	4	92
CC63994		<10	1	0.09	10	1.99	1460	1	0.01	82	780	54	0.07	<2	4	35
CC63995		<10	1	0.09	10	1.22	1990	1	0.01	45	1010	73	0.08	<2	2	27
CC63996		<10	<1	0.11	20	0.66	2190	1	0.01	26	1020	72	0.09	<2	2	23
CC63997		<10	1	0.10	20	0.91	803	1	0.01	52	920	119	0.08	2	2	432
CC63998		<10	<1	0.08	10	0.60	878	<1	0.01	25	660	61	<0.01	<2	2	459
CC63999		<10	<1	0.08	10	0.66	954	<1	0.01	35	860	52	<0.01	<2	2	489
CC64000		<10	1	0.08	10	0.56	2460	<1	0.01	33	760	112	<0.01	<2	2	299

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Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC63985		<20	0.03	<10	<10	12	<10	149	
CC63986		<20	0.01	<10	<10	6	<10	1090	
CC63987		<20	0.01	<10	<10	11	<10	332	
CC63988		<20	0.01	<10	<10	13	<10	251	
CC63989		<20	0.01	<10	<10	6	<10	96	
CC63990		<20	<0.01	<10	<10	1	<10	149	
CC63991		<20	0.01	<10	<10	6	<10	404	
CC63992		<20	0.03	<10	<10	20	<10	318	
CC63993		<20	0.10	<10	<10	38	<10	570	
CC63994		<20	0.08	<10	<10	41	<10	947	
CC63995		<20	0.01	<10	<10	26	<10	634	
CC63996		<20	0.01	<10	<10	19	<10	539	
CC63997		<20	0.01	<10	<10	13	<10	769	
CC63998		<20	0.01	<10	<10	7	<10	380	
CC63999		<20	0.01	<10	<10	10	<10	411	
CC64000		<20	0.01	<10	<10	13	<10	711	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081263

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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1016-510 W HASTINGS ST
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Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE VA09081262

Project: RAU

P.O. No.:

This report is for 201 Soil samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Pb-OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62475		0.22	0.001	<0.2	2.36	8	<10	420	<0.5	2	4.94	<0.5	64	135	135	7.30
CC62476		0.18	0.004	0.3	1.30	5	<10	210	<0.5	3	13.75	0.5	46	63	93	3.98
CC62477		0.18	0.027	0.4	0.51	64	<10	290	<0.5	3	>25.0	1.0	9	20	36	2.30
CC62478		0.10	0.003	0.3	2.34	7	<10	180	0.5	4	2.23	0.5	42	149	103	6.02
CC62479		0.14	<0.001	<0.2	4.28	26	<10	210	0.5	3	2.03	0.8	82	330	125	8.71
CC62480		0.12	0.114	0.5	0.61	53	<10	70	<0.5	7	15.5	1.7	11	41	28	5.80
CC62481		0.18	0.028	1.0	3.10	25	<10	260	0.6	9	10.10	1.2	34	211	57	5.19
CC62482		0.16	0.221	1.6	0.26	77	<10	80	<0.5	123	16.4	1.6	13	11	27	2.87
CC62483		0.16	0.184	2.7	0.17	58	<10	150	<0.5	33	16.8	4.9	26	10	15	2.28
CC62484		0.18	0.175	2.0	0.12	52	<10	860	<0.5	41	18.6	1.9	5	7	13	1.82
CC62485		0.16	0.104	2.4	0.09	21	<10	130	<0.5	50	18.8	4.7	3	5	8	0.91
CC62486		0.18	0.073	1.5	0.07	23	<10	360	<0.5	18	19.1	3.8	2	4	4	0.82
CC62487		0.14	0.043	1.0	0.14	26	<10	90	<0.5	17	16.6	1.4	5	8	13	1.38
CC62488		0.18	0.002	<0.2	0.40	22	<10	500	<0.5	3	7.67	1.1	9	10	22	1.81
CC62489		0.12	0.001	0.4	0.23	15	<10	110	<0.5	2	16.8	1.0	4	7	8	1.19
CC62490		0.14	0.003	0.3	0.10	15	<10	50	<0.5	3	19.3	1.2	1	7	2	0.51
CC62491		0.18	0.056	1.1	0.24	35	<10	130	<0.5	4	15.9	1.3	15	25	37	3.08
CC62492		0.10	0.010	1.8	0.39	33	<10	160	0.6	5	10.65	7.2	4	17	17	2.27
CC62493		0.16	0.003	0.2	0.71	10	<10	100	<0.5	3	10.95	1.0	6	17	12	1.30
CC62494		0.14	<0.001	0.3	0.15	6	<10	50	<0.5	3	17.7	0.5	2	8	3	0.37
CC62495		0.12	<0.001	<0.2	0.14	7	<10	30	<0.5	2	18.3	<0.5	1	5	3	0.30
CC62496		0.16	<0.001	0.2	0.42	9	<10	110	<0.5	4	13.20	0.6	3	13	10	0.95
CC62497		0.14	0.001	<0.2	0.32	6	<10	60	<0.5	3	16.8	0.7	3	11	6	0.69
CC62498		0.20	0.004	0.3	0.13	11	<10	40	<0.5	4	18.9	1.1	2	5	3	0.44
CC62499		0.16	0.009	1.0	0.19	26	<10	70	<0.5	2	15.9	1.3	3	6	16	0.82
CC62500		0.10	0.003	1.0	0.10	11	<10	40	<0.5	<2	15.9	2.4	2	4	7	0.50
CC62501		0.12	0.003	0.5	0.68	16	<10	290	<0.5	<2	6.92	0.8	5	14	15	1.57
CC62502		0.12	0.001	0.6	0.68	18	<10	260	<0.5	<2	7.43	0.9	5	15	17	1.58
CC62503		0.12	0.008	0.8	0.88	24	<10	310	<0.5	<2	6.29	0.8	4	20	16	1.92
CC62504		0.16	0.009	0.7	0.79	19	<10	340	<0.5	<2	6.06	0.6	6	35	29	1.73
CC62505		0.24	0.005	0.6	1.16	26	<10	290	0.5	<2	2.72	1.0	9	25	28	2.78
CC62506		0.14	0.006	0.4	2.08	27	<10	290	1.0	<2	1.32	2.1	11	28	19	3.50
CC62507		0.22	0.003	0.4	0.92	24	<10	800	<0.5	<2	7.15	0.8	6	19	22	1.94
CC62508		0.34	0.002	0.2	1.04	18	<10	210	<0.5	<2	9.43	0.6	8	27	24	2.15
CC62509		0.24	0.002	<0.2	0.99	11	<10	130	<0.5	<2	5.04	<0.5	8	19	24	2.53
CC62510		0.16	0.001	<0.2	2.17	16	<10	190	0.5	<2	0.42	<0.5	11	35	22	3.57
CC62511		0.22	0.001	<0.2	1.64	12	<10	160	<0.5	<2	0.36	<0.5	6	24	9	2.76
CC62512		0.28	0.002	<0.2	1.72	18	<10	250	0.6	<2	0.38	<0.5	8	28	15	3.17
CC62513		0.22	0.001	<0.2	1.45	9	<10	150	0.5	<2	1.51	<0.5	8	23	17	2.84
CC62514		0.24	0.001	0.2	0.81	8	<10	130	<0.5	<2	7.83	<0.5	8	17	23	2.18

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Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62475		10	1	0.17	40	1.79	902	<1	0.02	226	1900	50	0.21	<2	6	47
CC62476		<10	<1	0.15	20	0.62	742	<1	0.01	117	1210	29	0.06	<2	3	72
CC62477		<10	<1	0.09	10	0.36	453	<1	0.01	26	510	218	<0.01	5	1	124
CC62478		10	1	0.15	30	1.52	1315	<1	0.01	166	1390	35	0.13	<2	4	25
CC62479		10	1	0.30	40	4.03	866	<1	<0.01	338	1890	46	0.05	<2	11	29
CC62480		<10	1	0.04	10	9.92	704	47	0.02	82	2910	66	<0.01	5	2	65
CC62481		10	1	0.19	20	7.56	758	3	0.01	138	1680	231	0.04	2	9	73
CC62482		<10	<1	0.03	10	10.35	719	7	0.01	63	870	336	<0.01	5	2	63
CC62483		<10	1	0.02	10	10.60	2090	11	0.01	97	590	794	0.03	7	1	70
CC62484		<10	<1	0.03	10	11.45	1385	8	0.02	33	270	647	<0.01	4	1	94
CC62485		<10	1	0.01	10	11.80	1580	4	0.02	17	210	485	<0.01	4	<1	80
CC62486		<10	1	0.01	10	12.10	1485	4	0.02	14	120	378	<0.01	2	<1	96
CC62487		<10	1	0.05	10	10.30	1645	7	0.02	25	580	227	<0.01	3	1	88
CC62488		<10	<1	0.06	10	5.38	1235	4	0.01	30	770	102	0.15	3	1	44
CC62489		<10	<1	0.04	10	10.55	1365	2	0.02	16	850	66	<0.01	<2	<1	67
CC62490		<10	<1	0.01	10	12.35	1000	1	0.01	8	320	94	<0.01	2	<1	56
CC62491		<10	1	0.07	10	10.00	418	2	0.01	84	800	185	0.06	5	2	61
CC62492		<10	1	0.04	10	6.86	4580	2	0.02	23	1400	517	0.07	8	1	39
CC62493		<10	1	0.04	10	7.41	925	1	0.02	15	600	75	0.05	2	1	35
CC62494		<10	<1	0.01	10	11.25	445	<1	0.02	8	280	56	<0.01	<2	<1	56
CC62495		<10	1	0.01	10	11.75	279	1	0.02	7	270	18	<0.01	<2	<1	56
CC62496		<10	1	0.03	10	8.75	542	1	0.02	15	1060	54	0.08	<2	<1	52
CC62497		<10	<1	0.02	10	10.65	536	<1	0.02	10	550	46	<0.01	<2	<1	56
CC62498		<10	<1	0.02	10	11.90	638	2	0.02	10	520	75	<0.01	<2	<1	79
CC62499		<10	1	0.03	<10	10.00	607	4	0.02	22	1120	181	0.04	3	1	67
CC62500		<10	<1	0.01	<10	10.05	841	3	0.02	6	600	136	<0.01	3	<1	65
CC62501		<10	<1	0.07	10	4.04	371	<1	0.02	11	690	29	0.04	2	1	42
CC62502		<10	<1	0.08	10	4.72	529	1	0.02	13	770	27	0.03	<2	1	43
CC62503		<10	<1	0.09	10	3.71	200	1	0.02	13	930	28	0.07	2	2	40
CC62504		<10	<1	0.08	10	3.48	225	<1	0.02	16	960	33	0.07	3	2	36
CC62505		<10	<1	0.09	10	1.77	584	1	0.01	25	950	36	<0.01	<2	3	24
CC62506		<10	1	0.06	10	0.84	843	1	0.01	28	840	48	0.03	5	4	19
CC62507		<10	<1	0.10	10	4.74	959	1	0.03	21	730	33	0.04	9	2	39
CC62508		<10	<1	0.15	10	5.38	541	1	0.02	31	750	20	0.02	2	2	83
CC62509		<10	<1	0.08	10	3.34	628	1	0.02	27	800	20	0.02	2	3	33
CC62510		10	<1	0.08	10	0.58	396	1	0.02	30	560	22	0.01	3	3	17
CC62511		10	<1	0.06	10	0.40	309	1	0.02	15	250	17	0.01	<2	3	12
CC62512		<10	<1	0.07	10	0.47	648	<1	0.01	24	360	27	<0.01	<2	3	15
CC62513		10	<1	0.09	10	1.19	590	<1	0.01	20	550	22	<0.01	<2	3	19
CC62514		<10	<1	0.09	10	4.21	540	<1	0.02	19	650	19	<0.01	3	2	66

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	1	0.001
CC62475		<20	0.01	<10	<10	54	<10	217		
CC62476		<20	0.01	<10	<10	29	<10	184		
CC62477		<20	0.01	<10	<10	13	<10	692		
CC62478		<20	0.01	<10	<10	56	<10	148		
CC62479		<20	0.05	<10	<10	122	<10	365		
CC62480		<20	0.01	<10	20	58	20	574		
CC62481		<20	0.06	<10	<10	106	<10	302		
CC62482		<20	0.01	<10	10	29	10	559		
CC62483		<20	<0.01	<10	<10	30	10	1240		
CC62484		<20	<0.01	<10	<10	28	10	660		
CC62485		<20	<0.01	<10	<10	12	<10	997		
CC62486		<20	<0.01	<10	<10	11	10	951		
CC62487		<20	<0.01	<10	<10	21	10	471		
CC62488		<20	0.01	<10	<10	34	<10	177		
CC62489		<20	0.01	<10	<10	29	<10	240		
CC62490		<20	<0.01	<10	<10	30	<10	261		
CC62491		<20	<0.01	<10	<10	32	<10	536		
CC62492		<20	0.01	<10	<10	76	<10	1635		
CC62493		<20	0.02	<10	<10	60	<10	243		
CC62494		<20	<0.01	<10	<10	31	<10	126		
CC62495		<20	<0.01	<10	<10	26	<10	72		
CC62496		<20	0.01	<10	<10	49	<10	107		
CC62497		<20	0.01	<10	<10	42	<10	133		
CC62498		<20	<0.01	<10	<10	23	<10	184		
CC62499		<20	<0.01	<10	10	42	<10	280		
CC62500		<20	<0.01	<10	10	35	<10	313		
CC62501		<20	0.01	<10	<10	20	<10	316		
CC62502		<20	0.01	<10	<10	20	<10	427		
CC62503		<20	0.01	<10	<10	23	<10	623		
CC62504		<20	0.02	<10	<10	26	<10	385		
CC62505		<20	0.02	<10	<10	36	<10	213		
CC62506		<20	0.02	<10	<10	45	<10	198		
CC62507		<20	0.02	<10	<10	30	<10	265		
CC62508		<20	0.02	<10	<10	30	<10	123		
CC62509		<20	0.02	<10	<10	35	<10	96		
CC62510		<20	0.04	<10	<10	63	<10	115		
CC62511		<20	0.03	<10	<10	65	<10	67		
CC62512		<20	0.03	<10	<10	57	<10	98		
CC62513		<20	0.03	<10	<10	54	<10	86		
CC62514		<20	0.02	<10	<10	31	<10	101		

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62515		0.14	0.002	0.6	1.27	13	<10	360	0.5	<2	3.44	0.7	9	31	26	2.44
CC62516		0.22	0.003	0.6	1.13	14	<10	330	<0.5	<2	3.78	0.6	8	27	26	2.16
CC62517		0.26	0.002	0.5	1.39	18	<10	340	0.5	<2	3.59	0.8	9	29	33	2.83
CC62518		0.26	0.002	0.5	0.72	15	<10	160	<0.5	<2	7.42	0.5	8	19	15	2.17
CC62519		0.10	0.002	0.6	2.12	4	<10	470	0.7	<2	0.81	0.8	13	55	38	2.57
CC62520		0.08	0.003	1.0	0.47	88	<10	100	<0.5	<2	0.13	1.5	4	20	71	1.68
CC62521		0.08	NSS	2.1	0.50	59	<10	170	<0.5	<2	0.13	4.7	3	13	59	1.88
CC62522		0.14	0.008	3.5	0.87	58	<10	120	0.6	<2	0.04	2.1	5	13	53	2.75
CC62523		0.12	0.003	0.5	0.50	28	<10	100	<0.5	<2	0.03	0.8	4	10	24	2.28
CC62524		0.12	0.003	2.0	0.85	15	<10	160	<0.5	<2	0.06	4.7	5	14	33	2.16
CC62525		0.10	<0.001	1.4	0.42	11	<10	100	<0.5	<2	0.05	0.9	1	13	53	1.21
CC62526		0.12	NSS	2.4	0.74	6	<10	290	<0.5	<2	0.08	1.1	2	31	29	1.79
CC62527		0.12	0.001	1.7	0.74	21	<10	530	0.7	<2	0.11	1.7	1	40	78	1.95
CC62528		0.14	0.002	2.5	1.28	19	<10	380	<0.5	<2	0.09	<0.5	2	50	65	2.43
CC62529		0.12	0.002	2.1	1.00	22	<10	280	<0.5	2	0.06	1.7	2	41	59	2.02
CC62530		0.14	0.002	4.4	2.61	19	<10	280	0.6	2	0.08	0.9	8	37	32	3.11
CC62531		0.08	0.007	0.5	0.98	21	<10	370	<0.5	<2	5.30	0.7	6	21	22	2.21
CC62532		0.12	0.003	0.3	1.45	18	<10	410	0.5	<2	1.53	0.5	8	24	14	2.89
CC62533		0.14	0.003	0.4	0.60	26	<10	270	<0.5	<2	8.88	1.2	5	13	20	1.67
CC62534		0.14	0.003	0.4	1.20	24	<10	170	0.5	<2	4.01	0.8	8	20	19	2.69
CC62535		0.14	0.004	0.3	0.80	18	<10	190	<0.5	<2	1.80	0.8	5	18	11	1.92
CC62536		0.16	0.002	0.5	0.97	16	<10	220	<0.5	<2	5.46	0.6	7	20	24	2.17
CC62537		0.14	0.002	0.4	1.19	20	<10	280	0.5	<2	3.06	0.7	9	25	26	2.59
CC62538		0.08	0.002	0.4	1.00	16	<10	400	<0.5	<2	3.48	0.7	7	24	26	2.04
CC62539		0.12	0.002	0.6	1.07	18	<10	330	<0.5	<2	6.55	0.7	9	25	23	2.23
CC62540		0.08	0.003	0.5	1.08	17	<10	430	<0.5	<2	3.95	<0.5	7	25	24	2.25
CC62541		0.06	0.004	0.6	1.07	16	<10	510	<0.5	<2	3.91	0.9	8	25	32	2.26
CC62542		0.10	<0.001	0.4	1.02	19	<10	300	<0.5	<2	4.64	<0.5	7	22	21	2.19
CC62543		0.14	0.002	0.5	0.97	15	<10	220	<0.5	<2	6.69	<0.5	8	22	20	2.53
CC62544		0.08	0.001	0.5	1.21	16	<10	330	<0.5	<2	3.62	0.6	10	28	25	2.73
CC62545		0.10	0.002	0.5	1.23	13	<10	290	<0.5	<2	3.43	0.6	9	30	27	2.42
CC62546		0.12	<0.001	0.4	1.09	9	<10	270	<0.5	<2	4.69	0.7	8	28	22	2.18
CC62547		0.08	0.002	0.4	1.08	13	<10	250	<0.5	<2	3.13	<0.5	8	27	23	2.13
CC62548		0.10	0.002	0.4	1.07	12	<10	350	<0.5	<2	4.08	0.7	9	24	23	2.39
CC62549		0.06	0.002	0.4	1.37	13	<10	380	0.5	2	2.69	0.5	10	31	23	2.70
CC62550		0.10	0.002	0.5	1.36	15	<10	300	0.5	2	2.73	0.8	9	32	27	2.43
CC62551		0.12	<0.001	0.5	1.45	14	<10	240	0.5	<2	3.87	0.7	9	34	25	2.80
CC62552		0.12	0.002	0.4	1.31	12	<10	340	<0.5	<2	3.18	0.7	9	31	22	2.52
CC62553		0.12	<0.001	<0.2	1.82	19	<10	270	0.6	<2	0.67	<0.5	12	45	19	3.38
CC62554		0.08	NSS	0.4	1.06	9	<10	280	0.5	<2	3.39	0.6	7	18	42	2.19

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

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62515		<10	<1	0.12	10	1.86	459	<1	0.02	29	850	24	0.07	<2	3	39
CC62516		<10	<1	0.11	10	2.14	436	<1	0.01	23	890	23	0.07	<2	2	34
CC62517		<10	1	0.12	10	2.30	549	<1	0.02	32	890	29	0.04	4	3	33
CC62518		<10	<1	0.06	10	4.70	406	<1	0.01	19	770	19	<0.01	<2	2	41
CC62519		<10	1	0.20	20	1.17	188	<1	0.01	50	880	32	0.05	2	5	27
CC62520		<10	<1	0.06	10	0.07	55	59	0.01	75	630	118	0.01	8	<1	25
CC62521		<10	<1	0.07	10	0.04	55	54	0.01	97	620	38	0.01	14	<1	12
CC62522		<10	<1	0.12	20	0.06	54	40	0.01	106	910	216	0.01	28	2	35
CC62523		<10	<1	0.10	20	0.03	51	6	0.01	27	840	43	<0.01	5	<1	5
CC62524		<10	<1	0.10	10	0.06	83	18	0.01	38	660	38	<0.01	7	<1	8
CC62525		<10	<1	0.08	10	0.03	46	30	0.01	35	690	13	<0.01	4	<1	11
CC62526		<10	<1	0.07	10	0.07	84	11	0.01	9	900	22	0.02	3	1	112
CC62527		<10	<1	0.07	10	0.05	84	18	0.01	19	2110	43	0.03	12	<1	395
CC62528		<10	<1	0.13	20	0.16	111	27	0.01	9	2180	21	0.06	7	2	47
CC62529		<10	1	0.09	10	0.09	86	19	0.01	9	3120	21	0.02	8	1	29
CC62530		10	<1	0.06	10	0.41	293	9	0.01	19	630	18	<0.01	4	3	25
CC62531		<10	<1	0.11	10	3.03	436	<1	0.02	15	940	31	0.05	2	2	38
CC62532		<10	<1	0.08	10	0.79	482	<1	0.02	22	430	35	0.02	2	2	20
CC62533		<10	<1	0.09	10	5.16	404	<1	0.02	13	660	31	0.01	3	2	60
CC62534		<10	<1	0.08	10	2.37	683	<1	0.02	20	630	35	0.01	<2	3	27
CC62535		<10	<1	0.07	10	1.03	266	<1	0.01	15	980	23	<0.01	<2	2	25
CC62536		<10	<1	0.09	10	3.43	497	<1	0.02	23	750	24	<0.01	2	2	37
CC62537		<10	1	0.10	10	2.00	490	<1	0.01	26	850	25	0.01	<2	3	29
CC62538		<10	<1	0.10	10	1.22	485	<1	0.02	24	790	18	0.07	<2	2	39
CC62539		<10	<1	0.13	10	4.07	970	<1	0.02	25	830	22	0.03	<2	2	43
CC62540		<10	<1	0.11	10	2.18	399	<1	0.02	22	890	25	0.05	5	2	35
CC62541		<10	<1	0.11	10	1.61	917	<1	0.02	28	730	22	0.07	2	2	44
CC62542		<10	<1	0.10	10	2.75	499	<1	0.02	21	820	21	0.03	5	2	35
CC62543		<10	<1	0.11	10	4.27	431	<1	0.01	22	710	22	<0.01	3	2	41
CC62544		<10	<1	0.13	10	2.04	1355	<1	0.02	32	890	22	0.03	<2	3	37
CC62545		<10	<1	0.12	10	1.86	551	<1	0.02	31	890	22	0.04	<2	3	37
CC62546		<10	<1	0.12	10	2.79	475	<1	0.01	25	830	20	0.04	<2	2	38
CC62547		<10	<1	0.11	10	1.63	427	<1	0.01	28	750	17	0.05	2	2	32
CC62548		<10	<1	0.11	10	2.26	1160	1	0.02	27	860	23	0.06	<2	2	35
CC62549		<10	1	0.15	10	1.44	733	1	0.02	29	1010	23	0.07	<2	3	33
CC62550		<10	1	0.14	10	1.56	150	1	0.02	33	970	23	0.06	<2	3	34
CC62551		<10	<1	0.15	10	2.68	566	1	0.02	31	900	25	0.03	<2	3	34
CC62552		<10	<1	0.13	10	1.54	539	1	0.02	30	730	20	0.05	<2	2	38
CC62553		<10	<1	0.13	20	0.89	651	1	0.02	35	320	28	0.01	<2	4	17
CC62554		<10	<1	0.09	10	1.24	921	1	0.02	17	880	25	0.09	<2	2	37

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Finalized Date: 25-AUG-2009
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Project: RAU

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Ag-OG46 Ag ppm 1	Pb-OG46 Pb % 0.001
CC62515		<20	0.02	<10	<10	33	<10	185		
CC62516		<20	0.01	<10	<10	33	<10	167		
CC62517		<20	0.02	<10	<10	39	<10	178		
CC62518		<20	0.01	<10	<10	25	<10	88		
CC62519		<20	0.03	<10	<10	55	<10	240		
CC62520		<20	0.01	<10	<10	56	<10	284		
CC62521		<20	0.01	<10	<10	73	<10	295		
CC62522		<20	0.01	<10	<10	32	<10	550		
CC62523		<20	0.01	<10	<10	27	<10	67		
CC62524		<20	0.01	<10	<10	49	<10	175		
CC62525		<20	0.01	<10	<10	81	<10	106		
CC62526		<20	0.03	<10	<10	146	<10	69		
CC62527		<20	0.01	<10	10	285	<10	105		
CC62528		<20	0.03	<10	10	266	<10	28		
CC62529		<20	0.02	<10	10	216	<10	47		
CC62530		<20	0.05	<10	<10	129	<10	108		
CC62531		<20	0.01	<10	<10	32	<10	235		
CC62532		<20	0.02	<10	<10	49	<10	135		
CC62533		<20	0.01	<10	<10	21	<10	145		
CC62534		<20	0.02	<10	<10	36	<10	164		
CC62535		<20	0.02	<10	<10	29	<10	223		
CC62536		<20	0.02	<10	<10	32	<10	123		
CC62537		<20	0.02	<10	<10	37	<10	153		
CC62538		<20	0.01	<10	<10	29	<10	158		
CC62539		<20	0.01	<10	<10	30	<10	157		
CC62540		<20	0.02	<10	<10	33	<10	132		
CC62541		<20	0.02	<10	<10	31	<10	133		
CC62542		<20	0.01	<10	<10	31	<10	118		
CC62543		<20	0.01	<10	<10	30	<10	113		
CC62544		<20	0.02	<10	<10	36	<10	146		
CC62545		<20	0.02	<10	<10	34	<10	144		
CC62546		<20	0.02	<10	<10	30	<10	140		
CC62547		<20	0.02	<10	<10	31	<10	131		
CC62548		<20	0.01	<10	<10	31	<10	134		
CC62549		<20	0.02	<10	<10	37	<10	170		
CC62550		<20	0.02	<10	<10	38	<10	168		
CC62551		<20	0.02	<10	<10	40	<10	171		
CC62552		<20	0.02	<10	<10	36	<10	177		
CC62553		<20	0.02	<10	<10	54	<10	183		
CC62554		<20	0.01	<10	<10	34	<10	98		

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC62555		0.08	<0.001	<0.2	1.34	13	<10	230	0.5	<2	1.27	0.7	10	24	14	3.26
CC62556		0.16	<0.001	<0.2	3.05	<2	<10	290	<0.5	<2	0.51	<0.5	33	110	69	6.67
CC62557		0.14	0.002	0.4	1.65	12	<10	320	0.5	<2	2.50	0.8	12	45	29	2.73
CC63561		0.20	0.001	0.5	0.88	17	<10	310	<0.5	<2	6.72	0.7	7	17	20	1.89
CC63562		0.14	0.006	0.7	1.35	26	<10	340	0.5	2	1.50	1.2	10	25	35	2.84
CC63563		0.10	0.035	1.4	0.53	19	<10	320	<0.5	<2	8.62	9.1	4	19	17	1.05
CC63564		0.14	0.003	0.8	1.08	25	<10	340	<0.5	2	4.80	1.9	8	24	22	2.61
CC63565		0.18	0.003	0.8	0.84	17	<10	320	<0.5	2	8.82	2.2	6	20	20	1.57
CC63566		0.12	0.005	1.2	1.08	17	<10	420	<0.5	<2	4.48	1.3	8	30	16	2.01
CC63567		0.20	0.004	0.8	0.82	22	<10	390	<0.5	3	8.31	0.6	6	20	17	1.57
CC63568		0.18	0.002	0.8	1.18	15	<10	310	<0.5	<2	4.81	0.7	8	27	27	2.38
CC63569		0.20	0.001	0.5	1.27	16	<10	220	<0.5	<2	5.20	0.8	9	29	25	2.43
CC63570		0.18	0.003	0.4	1.13	8	<10	200	<0.5	<2	5.15	0.7	8	27	22	2.04
CC63571		0.26	<0.001	0.5	1.18	16	<10	340	<0.5	<2	5.52	0.7	8	31	27	2.30
CC63572		0.14	0.002	0.6	1.41	17	<10	290	<0.5	<2	3.52	0.8	10	38	27	2.69
CC63573		0.18	0.001	0.6	1.32	19	<10	410	0.5	<2	2.72	0.8	11	31	28	2.67
CC63574		0.16	<0.001	0.4	1.20	18	<10	200	<0.5	<2	1.81	<0.5	9	24	14	2.69
CC63575		0.10	0.002	0.4	1.25	11	<10	290	<0.5	2	3.53	0.6	8	29	22	2.30
CC63576		0.12	0.002	0.5	1.25	12	<10	300	<0.5	<2	2.86	0.5	9	30	24	2.32
CC63577		0.18	0.001	0.4	1.27	13	<10	220	<0.5	<2	4.80	0.6	8	29	23	2.29
CC63578		0.18	0.002	0.4	1.16	12	<10	250	<0.5	<2	4.32	0.7	9	27	23	2.32
CC63579		0.16	<0.001	0.3	1.11	12	<10	250	<0.5	<2	5.62	0.6	8	26	20	2.23
CC63580		0.20	0.002	0.5	1.22	14	<10	230	<0.5	<2	5.26	0.7	9	30	23	2.45
CC63581		0.18	<0.001	0.2	1.08	13	<10	100	<0.5	<2	5.03	<0.5	10	20	28	2.58
CC63582		0.18	<0.001	0.5	1.46	17	<10	290	<0.5	<2	4.58	0.8	12	42	26	2.85
CC63583		0.20	<0.001	0.3	1.17	10	<10	260	<0.5	<2	4.99	<0.5	8	29	23	2.61
CC63584		0.20	0.001	0.4	1.30	16	<10	230	<0.5	<2	5.32	0.5	8	32	26	2.63
CC63585		0.16	0.002	0.3	1.14	13	<10	250	<0.5	<2	5.09	0.7	9	29	22	2.25
CC63586		0.16	<0.001	0.2	0.52	8	<10	90	<0.5	<2	12.05	<0.5	14	9	19	3.28
CC63587		0.18	<0.001	0.4	2.13	23	<10	370	0.9	<2	1.35	<0.5	12	32	17	3.44
CC63588		0.22	0.006	0.4	1.07	11	<10	210	<0.5	<2	3.94	<0.5	20	25	44	3.71
CC63589		0.18	0.002	0.4	0.98	11	<10	300	0.5	<2	8.86	<0.5	7	17	13	1.92
CC63590		0.12	0.001	0.4	1.95	38	<10	340	0.8	<2	2.04	0.6	9	27	11	3.30
CC63591		0.22	0.002	0.6	1.53	9	<10	420	0.5	<2	1.18	0.5	8	41	24	2.20
CC63592		0.16	0.003	0.6	1.44	17	<10	590	0.5	<2	1.61	0.7	15	38	25	3.05
CC63593		0.20	0.002	0.6	1.41	6	<10	390	0.5	<2	1.35	0.6	8	38	27	1.91
CC63594		0.26	0.002	0.4	1.03	17	<10	250	<0.5	<2	5.71	0.5	7	23	23	2.16
CC63595		0.28	0.001	0.4	1.07	15	<10	230	<0.5	<2	6.09	0.6	8	23	24	2.05
CC63596		0.30	0.003	0.4	1.33	13	<10	230	<0.5	<2	5.47	0.6	9	36	27	2.48
CC63597		0.12	0.001	0.5	1.24	11	<10	260	<0.5	<2	3.55	0.7	8	32	24	2.21

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Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62555		<10	1	0.10	10	0.68	1445	1	0.02	16	860	43	0.09	<2	3	22
CC62556		10	<1	0.95	<10	3.15	499	<1	0.02	106	550	3	0.13	<2	7	11
CC62557		<10	1	0.16	10	1.90	285	1	0.02	44	980	26	0.11	<2	4	32
CC63561		<10	1	0.10	10	4.41	521	1	0.02	18	790	22	0.03	<2	2	40
CC63562		<10	<1	0.08	10	1.03	486	1	0.02	23	760	40	0.02	<2	3	23
CC63563		<10	<1	0.07	10	5.32	173	1	0.02	8	770	64	0.07	<2	1	54
CC63564		<10	<1	0.09	10	2.67	516	2	0.02	24	880	40	0.04	3	2	43
CC63565		<10	<1	0.11	10	5.67	416	1	0.02	18	580	27	0.02	<2	2	53
CC63566		<10	<1	0.10	10	2.50	559	1	0.02	22	680	22	0.07	<2	2	35
CC63567		<10	<1	0.09	10	5.42	417	1	0.02	15	740	21	0.06	2	2	55
CC63568		<10	<1	0.11	10	3.01	507	1	0.02	28	870	23	0.03	2	3	39
CC63569		<10	<1	0.14	10	3.52	430	1	0.02	30	900	22	0.01	<2	3	41
CC63570		<10	<1	0.12	10	3.44	249	1	0.01	27	820	23	0.02	<2	2	42
CC63571		<10	<1	0.14	10	3.42	430	1	0.02	31	880	21	0.04	2	2	52
CC63572		<10	<1	0.13	10	2.14	340	1	0.02	35	890	23	0.06	2	3	36
CC63573		<10	<1	0.12	10	1.41	726	1	0.02	33	920	29	0.06	2	2	31
CC63574		<10	<1	0.08	10	0.98	657	2	0.02	23	390	24	0.04	<2	2	21
CC63575		<10	1	0.14	10	2.03	517	1	0.02	28	890	21	0.05	<2	2	34
CC63576		<10	<1	0.12	10	1.53	487	1	0.02	29	870	20	0.05	<2	2	34
CC63577		<10	<1	0.13	10	3.17	384	1	0.02	29	870	22	0.02	<2	3	39
CC63578		<10	<1	0.13	10	2.64	774	1	0.02	27	880	21	0.04	<2	2	37
CC63579		<10	<1	0.14	10	3.49	583	1	0.02	25	860	19	0.04	<2	2	44
CC63580		<10	<1	0.14	10	3.51	502	1	0.02	29	860	21	0.02	<2	3	41
CC63581		<10	<1	0.10	10	2.94	581	1	0.02	25	540	21	0.02	<2	3	45
CC63582		<10	<1	0.16	10	3.17	474	1	0.02	37	900	23	0.04	<2	3	38
CC63583		<10	<1	0.13	10	3.25	248	1	0.02	27	750	21	0.07	<2	3	39
CC63584		<10	<1	0.16	10	3.82	385	1	0.02	30	800	22	0.03	<2	3	41
CC63585		<10	<1	0.12	10	3.21	509	1	0.02	27	810	19	0.05	<2	2	41
CC63586		<10	<1	0.23	20	2.18	362	<1	0.02	33	1060	7	0.12	<2	3	563
CC63587		10	1	0.08	20	0.91	655	1	0.01	30	470	27	0.01	4	5	18
CC63588		<10	1	0.17	10	2.41	630	1	0.01	47	1320	14	0.03	4	4	33
CC63589		<10	<1	0.04	10	5.21	504	1	0.01	15	1460	12	0.05	4	2	42
CC63590		<10	<1	0.06	10	1.21	1825	2	0.01	22	450	28	0.03	<2	3	16
CC63591		<10	<1	0.12	10	0.95	163	<1	<0.01	36	850	25	0.10	3	4	23
CC63592		<10	1	0.12	10	0.89	1885	1	0.01	38	1000	22	0.08	4	3	26
CC63593		<10	<1	0.14	10	0.84	188	<1	<0.01	36	760	22	0.09	<2	3	27
CC63594		<10	<1	0.12	10	3.70	313	1	0.01	23	830	21	0.04	<2	2	40
CC63595		<10	<1	0.13	10	4.03	329	1	0.01	25	790	19	0.02	2	3	43
CC63596		<10	<1	0.13	10	3.79	348	1	0.01	33	870	20	0.02	2	3	37
CC63597		<10	1	0.13	10	2.16	266	<1	0.01	29	900	20	0.05	3	3	32

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Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Ag-OG46 Ag ppm 1	Pb-OG46 Pb % 0.001
CC62555		<20	0.02	<10	<10	48	<10	147		
CC62556		<20	0.21	<10	<10	62	<10	102		
CC62557		<20	0.03	<10	<10	44	<10	204		
CC63561		<20	0.01	<10	<10	26	<10	131		
CC63562		<20	0.03	<10	<10	43	<10	168		
CC63563		<20	0.01	<10	<10	14	<10	785		
CC63564		<20	0.02	<10	<10	33	<10	258		
CC63565		<20	0.01	<10	<10	24	<10	257		
CC63566		<20	0.01	<10	<10	29	<10	264		
CC63567		<20	0.01	<10	<10	26	<10	158		
CC63568		<20	0.02	<10	<10	34	<10	146		
CC63569		<20	0.02	<10	<10	35	<10	162		
CC63570		<20	0.02	<10	<10	31	<10	148		
CC63571		<20	0.02	<10	<10	32	<10	153		
CC63572		<20	0.02	<10	<10	38	<10	182		
CC63573		<20	0.02	<10	<10	43	<10	173		
CC63574		<20	0.02	<10	<10	43	<10	120		
CC63575		<20	0.02	<10	<10	34	<10	157		
CC63576		<20	0.02	<10	<10	34	<10	148		
CC63577		<20	0.02	<10	<10	35	<10	154		
CC63578		<20	0.02	<10	<10	32	<10	146		
CC63579		<20	0.01	<10	<10	31	<10	132		
CC63580		<20	0.02	<10	<10	34	<10	151		
CC63581		<20	0.02	<10	<10	37	<10	105		
CC63582		<20	0.03	<10	<10	39	<10	172		
CC63583		<20	0.02	<10	<10	35	<10	139		
CC63584		<20	0.02	<10	<10	38	<10	145		
CC63585		<20	0.02	<10	<10	31	<10	140		
CC63586		<20	0.01	<10	<10	12	<10	85		
CC63587		<20	0.02	<10	<10	58	<10	133		
CC63588		<20	0.02	<10	<10	34	<10	115		
CC63589		<20	0.02	<10	10	63	<10	36		
CC63590		<20	0.03	<10	<10	69	<10	149		
CC63591		<20	0.02	<10	<10	43	<10	179		
CC63592		<20	0.02	<10	<10	40	<10	163		
CC63593		<20	0.02	<10	<10	40	<10	150		
CC63594		<20	0.01	<10	<10	31	<10	131		
CC63595		<20	0.02	<10	<10	32	<10	130		
CC63596		<20	0.02	<10	<10	36	<10	144		
CC63597		<20	0.02	<10	<10	35	<10	177		

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Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63598		0.12	0.001	0.5	1.22	15	<10	250	<0.5	<2	4.69	0.8	9	31	26	2.50
CC63599		0.28	0.001	0.5	1.10	18	<10	190	<0.5	<2	7.33	0.5	8	30	21	2.37
CC63600		0.24	0.001	0.4	0.97	19	<10	190	<0.5	<2	6.89	0.6	8	25	19	2.22
CC63601		0.22	0.001	0.4	0.97	14	<10	200	<0.5	<2	7.12	0.7	7	25	22	2.08
CC63602		0.28	0.002	0.6	0.99	16	<10	200	<0.5	<2	6.71	0.7	8	29	19	2.12
CC63603		0.26	0.002	0.5	1.52	13	<10	300	<0.5	<2	4.99	0.7	10	48	31	2.54
CC63604		0.10	0.001	0.5	1.24	20	<10	310	<0.5	<2	4.81	0.8	9	35	25	2.45
CC63605		0.24	0.002	0.6	1.35	19	<10	320	<0.5	<2	3.32	1.0	9	37	26	2.52
CC63606		0.18	<0.001	0.4	0.96	18	<10	220	<0.5	<2	4.49	0.9	8	24	21	2.12
CC63607		0.18	0.001	0.6	1.25	22	<10	280	<0.5	<2	3.64	1.3	11	32	31	2.78
CC63608		0.28	0.002	0.3	1.06	17	<10	190	<0.5	<2	5.54	0.5	8	24	21	2.24
CC63609		0.14	0.005	0.7	1.42	12	<10	320	0.5	<2	2.85	0.7	7	34	31	2.42
CC63610		0.18	0.002	0.6	1.19	17	<10	240	<0.5	<2	5.05	0.7	9	32	24	2.43
CC63611		0.18	0.002	0.5	1.25	18	<10	260	<0.5	<2	5.62	0.8	10	33	27	2.55
CC63612		0.24	0.004	0.6	1.42	21	<10	240	<0.5	<2	4.45	0.6	11	42	33	2.84
CC63613		0.24	0.002	0.5	1.29	20	<10	230	<0.5	<2	6.21	0.7	9	35	28	2.55
CC63639		0.08	<0.001	0.3	1.13	14	<10	280	<0.5	<2	5.38	0.7	8	32	23	2.25
CC63640		0.08	0.002	0.6	1.62	20	<10	360	0.5	<2	2.55	0.8	12	47	35	3.15
CC63641		0.08	0.002	0.6	1.19	23	<10	290	<0.5	<2	4.08	1.0	10	30	26	2.76
CC63642		0.10	0.001	0.4	1.10	17	<10	280	<0.5	<2	4.71	0.8	8	26	22	2.36
CC63643		0.10	0.001	0.4	1.08	13	<10	240	<0.5	<2	5.79	0.9	8	30	22	2.21
CC63644		0.16	0.001	0.4	1.35	17	<10	220	<0.5	<2	6.05	0.8	10	39	24	2.43
CC63645		0.12	0.001	0.4	0.95	14	<10	200	<0.5	<2	5.72	0.6	7	24	20	2.09
CC63646		0.12	0.001	0.4	1.16	19	<10	260	<0.5	<2	5.45	0.5	8	26	21	2.42
CC63647		0.08	<0.001	0.2	0.49	12	<10	310	<0.5	<2	12.6	0.5	5	11	11	1.24
CC63648		0.16	0.001	<0.2	0.49	18	<10	370	<0.5	<2	12.50	<0.5	6	11	14	1.80
CC63649		0.12	0.001	<0.2	0.57	22	<10	370	<0.5	<2	6.96	<0.5	17	10	20	4.62
CC63650		0.16	0.001	<0.2	0.45	14	<10	620	<0.5	<2	9.64	<0.5	13	12	18	3.11
CC63651		0.12	0.003	0.2	1.58	21	<10	300	0.5	<2	1.98	1.0	11	43	31	2.86
CC63652		0.24	0.001	0.3	1.08	20	<10	200	<0.5	<2	5.27	0.9	9	25	17	2.43
CC63653		0.22	0.001	0.2	1.24	18	<10	230	<0.5	<2	4.54	1.1	9	29	26	2.39
CC63654		0.22	0.001	0.4	1.36	17	<10	240	<0.5	<2	4.42	0.9	10	34	27	2.69
CC63655		0.28	0.002	0.4	1.31	23	<10	250	<0.5	<2	5.06	0.8	10	32	29	2.65
CC63656		0.22	0.001	0.4	1.20	21	<10	220	<0.5	<2	5.08	0.9	9	26	25	2.52
CC63657		0.18	0.003	0.4	1.29	30	<10	290	0.5	<2	3.69	1.0	10	29	29	3.13
CC63660		0.18	0.007	0.5	1.41	28	<10	330	0.6	<2	2.58	0.6	9	25	24	3.04
CC63661		0.22	0.003	0.5	1.15	23	<10	290	<0.5	<2	5.93	0.9	8	21	26	2.44
CC63662		0.24	0.006	0.5	1.07	31	<10	210	0.5	<2	4.98	0.8	7	19	23	2.22
CC63663		0.24	0.002	<0.2	1.59	18	<10	210	0.6	<2	2.63	<0.5	7	23	12	2.76
CC63664		0.12	0.001	<0.2	1.80	23	<10	420	0.5	<2	1.26	0.7	8	27	16	2.67

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63598		<10	1	0.13	10	2.98	456	1	0.01	30	850	21	0.03	<2	3	35
CC63599		<10	1	0.13	10	4.88	502	1	0.01	28	810	18	0.01	3	3	52
CC63600		<10	<1	0.11	10	4.57	617	1	0.01	25	1040	18	0.02	2	2	44
CC63601		<10	1	0.11	10	4.59	674	1	0.01	24	720	19	0.02	3	2	45
CC63602		<10	<1	0.11	10	4.51	498	1	0.01	27	810	16	0.02	4	2	45
CC63603		<10	1	0.15	10	3.62	212	<1	<0.01	41	800	23	0.04	3	4	33
CC63604		<10	1	0.16	10	3.05	475	1	0.01	33	870	18	0.03	<2	3	40
CC63605		<10	<1	0.14	10	2.27	217	<1	0.01	36	850	21	0.03	2	3	33
CC63606		<10	1	0.09	10	2.78	618	1	0.01	24	840	20	0.02	<2	2	33
CC63607		<10	1	0.14	10	2.24	559	1	0.01	38	920	22	0.04	2	3	33
CC63608		<10	<1	0.10	10	3.56	512	1	0.01	25	840	20	0.01	3	2	35
CC63609		<10	<1	0.14	10	1.84	189	<1	0.01	33	950	24	0.05	3	3	28
CC63610		<10	<1	0.12	10	3.26	558	1	0.01	30	870	20	0.03	4	3	33
CC63611		<10	<1	0.15	10	3.67	587	1	0.01	32	850	23	0.02	<2	3	40
CC63612		<10	<1	0.16	10	3.23	562	1	<0.01	39	860	24	0.03	4	3	27
CC63613		<10	1	0.16	10	4.17	506	1	0.01	36	840	20	0.01	5	3	42
CC63639		<10	1	0.13	10	3.13	584	<1	0.01	30	820	18	0.06	3	2	42
CC63640		<10	<1	0.17	10	1.57	685	<1	0.01	44	970	21	0.06	3	3	33
CC63641		<10	<1	0.13	10	2.55	961	<1	0.01	33	920	21	0.05	2	3	33
CC63642		<10	<1	0.15	10	2.72	659	1	0.01	26	1070	20	0.05	3	2	37
CC63643		<10	<1	0.12	10	3.73	524	1	0.01	29	840	20	0.03	2	2	38
CC63644		<10	1	0.15	10	4.19	274	1	0.01	35	860	21	0.02	2	3	39
CC63645		<10	<1	0.12	10	3.50	445	<1	0.01	23	740	18	0.03	4	2	38
CC63646		<10	<1	0.16	10	3.48	626	1	0.01	26	840	20	0.02	4	3	39
CC63647		<10	<1	0.06	10	7.74	488	1	0.01	12	740	8	0.08	2	1	53
CC63648		<10	1	0.08	10	8.01	364	<1	0.02	17	460	12	0.07	<2	2	65
CC63649		<10	<1	0.32	10	3.02	417	<1	0.02	25	1050	26	0.48	<2	2	120
CC63650		<10	<1	0.15	10	5.86	340	<1	0.01	31	790	11	0.07	<2	2	92
CC63651		<10	<1	0.14	10	1.59	269	<1	0.01	42	910	25	0.05	<2	4	27
CC63652		<10	<1	0.10	10	3.52	714	<1	0.01	29	860	21	0.03	<2	2	40
CC63653		<10	<1	0.11	10	2.88	381	<1	0.01	32	860	25	0.03	<2	3	37
CC63654		<10	<1	0.14	10	2.96	672	1	0.01	36	880	25	0.03	<2	3	38
CC63655		<10	<1	0.12	10	3.47	586	1	0.01	36	910	25	0.02	<2	3	38
CC63656		<10	1	0.11	10	3.27	391	<1	0.01	29	870	24	0.03	<2	3	36
CC63657		<10	<1	0.12	10	2.31	550	<1	0.01	32	1060	24	0.05	<2	3	33
CC63660		<10	<1	0.11	10	1.28	1315	<1	0.01	24	1000	32	0.07	<2	2	19
CC63661		<10	<1	0.12	10	3.82	658	1	0.02	25	970	35	0.04	<2	2	41
CC63662		<10	<1	0.09	10	3.10	281	<1	0.01	20	940	40	0.03	2	2	29
CC63663		<10	1	0.06	10	1.71	452	<1	0.02	18	440	24	0.03	<2	4	17
CC63664		<10	1	0.07	10	0.52	334	<1	0.01	15	440	36	0.03	2	3	25

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	1	0.001
CC63598		<20	0.02	<10	<10	34	<10	150		
CC63599		<20	0.02	<10	<10	33	<10	119		
CC63600		<20	0.02	<10	<10	29	<10	118		
CC63601		<20	0.02	<10	<10	27	<10	130		
CC63602		<20	0.02	<10	<10	29	<10	127		
CC63603		<20	0.03	<10	<10	41	<10	165		
CC63604		<20	0.02	<10	<10	35	<10	161		
CC63605		<20	0.02	<10	<10	38	<10	204		
CC63606		<20	0.02	<10	<10	29	<10	150		
CC63607		<20	0.02	<10	<10	35	<10	158		
CC63608		<20	0.02	<10	<10	31	<10	131		
CC63609		<20	0.02	<10	<10	39	<10	205		
CC63610		<20	0.02	<10	<10	34	<10	148		
CC63611		<20	0.02	<10	<10	36	<10	154		
CC63612		<20	0.02	<10	<10	38	<10	209		
CC63613		<20	0.03	<10	<10	37	<10	152		
CC63639		<20	0.02	<10	<10	31	<10	134		
CC63640		<20	0.02	<10	<10	44	<10	184		
CC63641		<20	0.02	<10	<10	36	<10	151		
CC63642		<20	0.02	<10	<10	33	<10	138		
CC63643		<20	0.02	<10	<10	31	<10	123		
CC63644		<20	0.02	<10	<10	38	<10	140		
CC63645		<20	0.02	<10	<10	28	<10	106		
CC63646		<20	0.02	<10	<10	34	<10	139		
CC63647		<20	0.01	<10	<10	16	<10	97		
CC63648		<20	0.01	<10	<10	18	<10	72		
CC63649		<20	0.01	<10	<10	17	<10	76		
CC63650		<20	0.01	<10	<10	16	<10	70		
CC63651		<20	0.02	<10	<10	43	<10	172		
CC63652		<20	0.02	<10	<10	32	<10	181		
CC63653		<20	0.02	<10	<10	34	<10	287		
CC63654		<20	0.02	<10	<10	38	<10	159		
CC63655		<20	0.02	<10	<10	37	<10	152		
CC63656		<20	0.02	<10	<10	34	<10	149		
CC63657		<20	0.02	<10	<10	39	<10	179		
CC63660		<20	0.01	<10	<10	42	<10	147		
CC63661		<20	0.01	<10	<10	35	<10	160		
CC63662		<20	0.01	<10	<10	33	<10	179		
CC63663		<20	0.02	<10	<10	47	<10	83		
CC63664		<20	0.02	<10	<10	56	<10	132		

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63665		0.28	0.007	0.5	0.96	29	<10	200	<0.5	<2	8.14	0.6	8	20	21	2.21
CC63666		0.10	<0.001	0.5	1.30	18	<10	390	0.5	<2	2.46	0.6	7	26	24	2.26
CC63667		0.24	0.031	0.6	1.05	31	<10	210	<0.5	<2	8.45	1.6	8	25	27	2.15
CC63668		0.14	0.006	0.5	1.03	30	<10	270	<0.5	<2	7.11	0.7	7	22	22	2.10
CC63669		0.10	<0.001	0.4	1.32	26	<10	410	<0.5	<2	3.16	0.9	9	31	33	2.66
CC63670		0.14	0.003	<0.2	0.89	22	<10	260	<0.5	<2	6.08	0.8	7	21	21	2.04
CC63671		0.20	0.002	0.3	1.19	16	<10	340	<0.5	<2	5.17	0.8	9	33	26	2.22
CC63672		0.20	0.002	0.3	1.15	22	<10	350	<0.5	<2	3.88	0.7	10	37	33	2.47
CC63673		0.24	0.001	0.2	0.67	18	<10	170	<0.5	<2	7.30	0.5	6	17	15	1.72
CC63674		Not Recvd														
CC63675		0.28	0.002	0.3	1.07	20	<10	200	<0.5	<2	6.05	0.7	8	25	24	2.26
CC63681		0.14	0.003	1.5	1.57	41	<10	370	0.5	<2	0.09	0.8	6	40	48	2.77
CC63682		0.16	0.001	1.2	1.42	22	<10	310	<0.5	<2	0.10	0.7	4	40	20	2.54
CC63683		0.08	0.002	0.2	0.96	23	<10	200	<0.5	2	2.22	0.7	25	17	68	4.27
CC63684		0.10	0.003	0.4	1.44	17	<10	370	0.7	<2	5.55	2.9	14	21	33	4.13
CC63685		0.12	0.002	0.5	1.59	16	<10	500	0.7	<2	2.76	3.1	14	29	28	3.78
CC63686		0.14	0.002	0.3	1.59	21	<10	380	0.6	<2	4.08	1.8	13	35	35	3.47
CC63687		0.16	0.002	0.4	1.00	29	<10	200	0.5	<2	12.95	2.3	12	18	22	3.06
CC63688		0.16	<0.001	0.2	0.58	9	<10	30	<0.5	<2	21.4	<0.5	10	10	10	2.26
CC63689		0.16	<0.001	<0.2	0.58	15	<10	30	<0.5	<2	19.5	<0.5	13	10	14	3.05
CC63690		0.12	<0.001	0.3	0.12	8	<10	10	<0.5	<2	>25.0	<0.5	2	3	2	0.53
CC63691		0.14	<0.001	0.2	0.47	31	<10	30	<0.5	<2	21.0	<0.5	10	11	13	2.33
CC63692		0.12	0.001	0.3	0.67	24	<10	130	<0.5	<2	14.8	0.6	13	21	29	2.48
CC63693		0.16	0.002	1.3	1.51	24	<10	730	0.9	<2	0.30	1.7	4	48	149	2.22
CC63694		0.12	0.004	1.0	0.58	37	<10	260	1.4	<2	0.16	4.3	2	18	226	1.74
CC63695		0.08	0.005	2.8	0.50	5	<10	230	<0.5	2	0.15	1.7	1	13	45	0.88
CC63696		0.12	<0.001	0.4	0.70	58	<10	170	0.6	<2	0.12	2.9	5	39	217	2.16
CC63697		0.16	0.712	>100	1.40	220	<10	70	0.8	<2	0.08	8.5	15	23	234	8.38
CC63698		0.12	0.008	0.6	0.46	17	<10	100	<0.5	<2	0.03	0.6	2	9	16	1.04
CC63699		0.06	0.011	5.4	0.35	88	<10	90	<0.5	2	0.12	14.2	2	9	42	1.57
CC63700		0.14	0.015	1.9	0.43	398	<10	90	0.8	3	0.04	14.0	6	10	93	3.17
CC63701		0.12	0.015	4.6	0.74	377	<10	160	0.5	2	0.08	11.2	7	17	51	2.80
CC63702		0.12	0.010	0.9	0.34	359	<10	140	<0.5	2	0.03	2.9	5	13	31	2.33
CC63703		0.12	0.010	2.1	1.07	174	<10	150	0.6	<2	0.04	4.6	5	18	72	2.64
CC63704		0.10	0.008	0.7	0.65	80	<10	140	<0.5	<2	0.04	2.1	3	12	36	1.80
CC63705		0.10	0.007	1.3	0.47	250	<10	80	0.5	3	0.06	7.4	7	12	73	3.12
CC63706		0.16	0.008	1.6	1.66	211	<10	200	0.6	<2	0.13	7.5	9	25	51	3.56
CC63707		0.10	<0.001	0.6	0.58	139	<10	90	<0.5	<2	0.06	1.8	5	15	39	2.47
CC63708		0.08	0.004	<0.2	0.90	55	<10	130	<0.5	<2	0.11	8.1	9	19	32	4.38
CC63709		0.12	<0.001	1.0	0.57	42	<10	90	0.9	<2	0.04	5.1	6	16	368	2.87

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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63665		<10	<1	0.10	10	5.30	462	<1	0.01	25	750	23	0.02	<2	2	40
CC63666		<10	<1	0.10	10	1.05	401	<1	0.02	24	870	25	0.08	<2	2	24
CC63667		<10	<1	0.10	10	5.67	591	<1	0.02	28	680	87	0.02	<2	3	48
CC63668		<10	<1	0.10	10	4.63	568	<1	0.02	22	750	27	0.04	<2	2	38
CC63669		<10	1	0.13	10	1.58	668	<1	0.01	34	1030	24	0.07	2	3	32
CC63670		<10	<1	0.12	10	3.47	453	<1	0.01	23	880	19	0.04	2	2	46
CC63671		<10	<1	0.12	10	2.85	300	<1	0.01	34	840	21	0.04	2	3	49
CC63672		<10	<1	0.10	10	2.26	590	<1	0.01	33	910	22	0.05	<2	2	34
CC63673		<10	1	0.07	10	4.72	363	<1	0.01	16	820	18	0.02	<2	2	43
CC63674																
CC63675		<10	<1	0.14	10	4.00	408	<1	0.01	27	870	21	0.02	3	3	47
CC63681		<10	1	0.09	20	0.31	217	24	0.01	34	830	52	0.03	9	2	57
CC63682		10	<1	0.08	10	0.24	295	10	0.01	16	1260	24	0.03	4	2	34
CC63683		<10	<1	0.25	20	0.26	1380	<1	0.01	47	2070	38	0.07	<2	3	19
CC63684		<10	<1	0.09	20	0.50	4600	<1	0.01	32	1370	165	0.12	4	2	28
CC63685		<10	<1	0.11	20	0.64	2330	<1	0.02	40	870	80	0.07	2	3	35
CC63686		<10	<1	0.13	20	0.87	1425	<1	0.02	40	890	51	0.05	<2	4	67
CC63687		<10	1	0.12	20	0.63	1735	<1	0.02	36	990	76	0.05	<2	3	112
CC63688		<10	<1	0.20	10	0.94	342	<1	0.01	27	720	8	<0.01	<2	3	708
CC63689		<10	1	0.25	10	1.25	340	<1	0.01	37	940	8	<0.01	<2	3	677
CC63690		<10	1	0.03	<10	0.53	222	<1	0.01	6	150	5	<0.01	<2	1	243
CC63691		<10	1	0.14	10	0.60	274	<1	0.01	34	1200	11	<0.01	<2	3	243
CC63692		<10	<1	0.16	10	3.32	425	<1	0.01	41	360	19	0.06	<2	3	133
CC63693		<10	1	0.10	20	0.15	197	23	0.01	19	2500	82	0.06	6	2	483
CC63694		<10	<1	0.15	20	0.06	150	56	0.01	37	1040	18	0.07	19	2	204
CC63695		<10	<1	0.07	10	0.04	71	10	0.02	11	750	12	0.06	<2	<1	29
CC63696		<10	<1	0.14	10	0.06	104	57	0.01	101	1560	20	0.07	8	1	110
CC63697		<10	3	0.10	10	0.07	440	458	0.01	154	2600	>10000	0.25	131	4	27
CC63698		<10	<1	0.16	20	0.03	25	14	0.01	20	380	125	0.02	2	1	7
CC63699		<10	<1	0.07	<10	0.05	136	37	0.02	67	1350	367	0.15	17	<1	41
CC63700		<10	<1	0.08	10	0.04	71	89	0.01	191	1000	375	0.05	95	1	43
CC63701		10	<1	0.12	10	0.10	174	178	0.01	192	1030	637	0.04	18	2	30
CC63702		<10	<1	0.09	20	0.02	57	144	0.01	181	490	409	0.03	10	1	8
CC63703		<10	<1	0.08	20	0.09	98	63	0.01	115	670	145	0.02	15	2	56
CC63704		10	<1	0.07	10	0.05	71	43	0.01	74	470	76	0.03	11	1	22
CC63705		<10	1	0.11	10	0.04	103	98	0.01	261	1180	133	0.06	32	1	14
CC63706		10	<1	0.08	10	0.34	273	38	0.01	157	1720	89	0.03	28	3	14
CC63707		<10	<1	0.08	10	0.04	88	59	0.02	140	740	64	0.05	25	<1	8
CC63708		<10	<1	0.10	20	0.08	256	17	0.01	104	580	77	0.03	25	2	10
CC63709		<10	<1	0.12	10	0.04	82	98	0.01	217	890	17	0.06	11	1	31

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	1	0.001
CC63665		<20	0.02	<10	<10	31	<10	157		
CC63666		<20	0.02	<10	<10	39	<10	148		
CC63667		<20	0.02	<10	<10	35	<10	215		
CC63668		<20	0.02	<10	<10	32	<10	187		
CC63669		<20	0.02	<10	<10	38	<10	187		
CC63670		<20	0.01	<10	<10	27	<10	128		
CC63671		<20	0.02	<10	<10	33	<10	144		
CC63672		<20	0.02	<10	<10	34	<10	135		
CC63673		<20	0.01	<10	<10	23	<10	93		
CC63674										
CC63675		<20	0.02	<10	<10	32	<10	134		
CC63681		<20	0.03	<10	<10	317	<10	163		
CC63682		<20	0.03	<10	<10	299	<10	112		
CC63683		<20	0.01	<10	<10	31	<10	244		
CC63684		<20	0.01	<10	<10	38	<10	960		
CC63685		<20	0.03	<10	<10	49	<10	948		
CC63686		<20	0.04	<10	<10	45	<10	642		
CC63687		<20	0.02	<10	<10	30	<10	709		
CC63688		<20	0.01	<10	<10	10	<10	67		
CC63689		<20	0.01	<10	<10	10	<10	62		
CC63690		<20	<0.01	<10	<10	2	<10	26		
CC63691		<20	0.01	<10	<10	9	<10	91		
CC63692		<20	0.04	<10	<10	14	<10	297		
CC63693		<20	0.03	<10	20	282	<10	98		
CC63694		<20	0.01	10	10	218	<10	188		
CC63695		<20	0.01	<10	<10	71	<10	38		
CC63696		<20	0.01	<10	10	155	<10	329		
CC63697		<20	0.01	<10	10	31	<10	1475	102	2.15
CC63698		<20	0.01	<10	<10	24	<10	140		
CC63699		<20	0.01	<10	<10	29	<10	460		
CC63700		<20	0.01	<10	10	49	<10	847		
CC63701		<20	0.01	<10	10	97	<10	757		
CC63702		<20	0.01	<10	<10	147	<10	712		
CC63703		<20	0.02	<10	<10	92	<10	607		
CC63704		<20	0.02	<10	<10	93	<10	324		
CC63705		<20	0.01	<10	10	51	<10	817		
CC63706		<20	0.03	<10	<10	64	<10	909		
CC63707		<20	0.02	<10	<10	74	<10	417		
CC63708		<20	0.01	<10	<10	39	<10	987		
CC63709		<20	0.01	<10	30	129	<10	753		

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC63710		0.10	<0.001	0.5	0.56	45	<10	100	1.0	<2	0.04	9.1	5	16	341	3.31

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Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC63710		<10	<1	0.15	10	0.04	82	117	0.01	222	1290	15	0.08	16	1	18

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CERTIFICATE OF ANALYSIS VA09081262

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ag	Pb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	1	0.001
CC63710		<20	0.01	<10	20	138	<10	1020		

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Project: RAU

Finalized Date: 25-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081262

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE VA09081261

Project: RAU

P.O. No.:

This report is for 200 Soil samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62251		0.22	0.001	<0.2	0.53	18	<10	120	<0.5	<2	6.79	<0.5	12	11	27	3.78
CC62252		0.24	<0.001	0.2	0.59	20	<10	200	<0.5	<2	10.70	<0.5	17	14	34	4.10
CC62253		0.24	0.025	0.7	0.53	37	<10	130	<0.5	<2	13.45	<0.5	6	11	15	1.92
CC62254		0.20	0.006	0.7	0.47	61	<10	90	<0.5	<2	13.65	0.7	6	9	11	1.70
CC62255		0.20	0.007	0.6	0.26	31	<10	70	<0.5	2	16.5	1.0	4	6	9	0.77
CC62256		0.14	0.010	0.7	0.72	45	<10	240	0.6	<2	5.79	1.8	11	18	24	2.74
CC62257		0.18	0.007	0.8	0.92	27	<10	190	0.5	<2	9.59	2.2	8	18	17	2.05
CC62258		0.12	0.001	0.9	0.37	25	<10	150	<0.5	<2	16.2	4.5	5	11	13	1.09
CC62259		0.20	0.006	0.7	0.42	15	<10	140	<0.5	<2	15.6	1.7	6	11	14	1.32
CC62260		0.16	0.001	0.6	0.35	11	<10	120	<0.5	2	17.0	2.3	3	6	6	0.84
CC62261		0.18	0.002	1.6	0.32	15	<10	100	<0.5	<2	16.3	3.5	3	5	12	0.84
CC62262		0.16	0.033	1.1	0.42	32	<10	170	<0.5	13	13.95	1.3	4	8	11	1.19
CC62263		0.18	0.003	1.9	0.45	12	<10	440	<0.5	7	14.25	6.4	4	9	13	1.55
CC62264		0.20	0.052	1.4	0.93	64	<10	320	<0.5	13	7.64	1.7	20	28	46	3.97
CC62265		0.22	0.003	0.5	0.85	19	<10	470	<0.5	3	14.75	2.2	14	16	14	3.46
CC62266		0.16	0.001	0.4	1.38	20	<10	730	0.6	3	7.48	1.0	21	28	22	5.64
CC62267		0.28	0.004	0.3	1.16	18	<10	340	0.5	3	8.03	0.8	15	34	23	4.19
CC62268		0.30	<0.001	<0.2	0.37	8	<10	210	<0.5	<2	>25.0	<0.5	2	5	3	0.84
CC62269		0.24	<0.001	0.4	0.47	2	<10	100	<0.5	2	23.2	<0.5	3	8	4	1.05
CC62270		0.24	0.001	0.4	0.85	14	<10	120	<0.5	2	17.6	0.8	6	15	11	2.42
CC62271		0.28	0.001	0.3	0.49	12	<10	100	<0.5	<2	24.9	0.7	3	7	5	1.08
CC62272		0.22	<0.001	<0.2	0.23	<2	<10	60	<0.5	<2	>25.0	<0.5	2	3	1	0.49
CC62273		0.22	0.002	1.0	1.15	33	<10	420	0.8	<2	23.0	3.6	8	21	30	2.15
CC62274		0.34	0.006	0.7	0.87	23	<10	230	<0.5	<2	22.0	2.6	8	20	27	2.03
CC62275		0.30	0.002	0.2	0.39	7	<10	110	<0.5	<2	>25.0	0.5	3	7	7	0.82
CC62276		0.26	0.003	1.1	0.99	22	<10	810	0.5	3	10.50	9.3	7	16	21	2.30
CC62277		0.30	0.001	<0.2	0.66	6	<10	50	<0.5	<2	21.6	<0.5	5	8	9	1.43
CC62278		0.26	0.004	0.2	0.91	9	<10	90	<0.5	2	13.60	<0.5	7	12	13	2.12
CC62279		0.16	0.002	0.3	1.21	14	<10	160	0.6	2	3.91	0.8	10	18	19	2.76
CC62280		0.28	0.001	0.7	0.76	15	<10	180	<0.5	<2	20.1	1.0	7	12	13	1.45
CC62281		0.28	0.001	<0.2	0.08	16	<10	40	<0.5	<2	>25.0	0.8	<1	1	1	0.21
CC62282		0.24	0.004	1.4	1.81	40	<10	480	0.8	<2	17.8	8.3	12	48	91	2.97
CC62283		0.26	<0.001	0.4	0.09	5	<10	50	<0.5	<2	>25.0	<0.5	1	1	<1	0.15
CC62284		0.32	<0.001	0.3	0.10	4	<10	50	<0.5	<2	>25.0	<0.5	<1	1	<1	0.14
CC62285		0.14	0.007	0.5	2.47	27	<10	410	1.0	<2	6.20	1.4	19	65	69	4.37
CC62286		0.26	0.003	0.3	1.24	16	<10	300	0.5	<2	10.90	0.6	8	22	17	2.66
CC62287		0.26	<0.001	<0.2	0.07	13	<10	40	<0.5	<2	>25.0	<0.5	1	2	1	0.14
CC62288		0.24	0.001	0.6	0.49	10	<10	360	<0.5	<2	>25.0	0.9	6	4	11	1.34
CC62289		0.26	<0.001	0.3	0.95	11	<10	80	<0.5	<2	20.6	<0.5	18	17	15	3.69
CC62290		0.24	<0.001	0.3	0.57	10	<10	40	<0.5	<2	>25.0	<0.5	6	9	7	1.90

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62251		<10	<1	0.23	10	4.27	276	1	0.03	34	1640	25	0.05	2	2	52
CC62252		<10	<1	0.30	10	3.04	338	1	0.03	47	1410	16	0.07	2	3	162
CC62253		<10	<1	0.10	10	9.14	404	1	0.03	17	1200	90	0.03	8	1	67
CC62254		<10	<1	0.10	10	9.12	518	2	0.04	26	1340	187	0.04	<2	1	59
CC62255		<10	<1	0.04	<10	10.15	572	2	0.03	11	460	142	0.03	2	1	70
CC62256		<10	<1	0.19	20	3.29	2010	5	0.04	29	990	153	0.13	2	1	38
CC62257		<10	<1	0.12	10	6.31	987	2	0.04	25	930	144	0.06	4	2	50
CC62258		<10	<1	0.13	10	9.72	706	9	0.04	22	820	160	0.06	2	1	78
CC62259		<10	<1	0.12	10	9.51	770	3	0.04	20	1120	162	0.05	2	1	78
CC62260		<10	<1	0.06	<10	10.45	896	4	0.04	8	670	107	<0.01	2	1	61
CC62261		<10	<1	0.06	<10	9.97	1265	2	0.04	7	1130	444	0.04	6	1	61
CC62262		<10	<1	0.08	10	9.44	938	1	0.04	12	1100	176	0.05	3	1	60
CC62263		<10	<1	0.12	10	9.47	1675	1	0.04	13	800	772	0.07	3	1	75
CC62264		<10	<1	0.26	20	4.90	1155	3	0.01	72	3640	255	0.05	5	3	74
CC62265		<10	1	0.41	20	3.78	1030	<1	0.01	41	890	189	0.16	2	4	336
CC62266		<10	<1	0.56	30	2.59	805	1	0.02	61	1460	83	0.10	2	5	211
CC62267		<10	1	0.57	20	2.80	617	<1	0.02	58	1130	86	0.27	2	4	117
CC62268		<10	<1	0.11	10	1.21	180	1	0.01	9	260	8	<0.01	<2	1	162
CC62269		<10	<1	0.10	10	2.09	204	1	0.01	13	320	8	<0.01	<2	1	160
CC62270		<10	1	0.13	10	1.81	414	1	0.01	22	420	166	<0.01	6	2	89
CC62271		<10	<1	0.07	10	0.78	375	1	0.01	12	320	75	<0.01	2	1	121
CC62272		<10	1	0.06	10	0.25	136	<1	<0.01	5	200	8	<0.01	2	1	171
CC62273		<10	1	0.16	10	0.45	2750	1	0.01	43	390	892	<0.01	7	4	86
CC62274		<10	1	0.10	10	0.82	1510	1	0.01	32	440	512	<0.01	7	2	85
CC62275		<10	1	0.07	10	1.24	405	1	0.01	12	220	89	<0.01	2	1	163
CC62276		<10	1	0.21	20	3.31	995	2	0.03	25	490	801	0.03	21	3	92
CC62277		<10	1	0.14	10	1.82	274	<1	0.01	16	250	11	<0.01	<2	2	257
CC62278		<10	<1	0.20	10	2.31	324	1	0.01	21	320	23	0.02	2	3	182
CC62279		<10	1	0.15	20	1.12	686	2	0.01	26	730	40	0.07	3	2	38
CC62280		<10	1	0.13	10	0.79	542	<1	0.01	22	700	65	<0.01	2	1	114
CC62281		<10	1	0.01	<10	0.46	179	<1	<0.01	2	80	23	<0.01	<2	<1	143
CC62282		<10	<1	0.35	10	0.77	2500	1	0.01	75	490	2130	<0.01	20	5	61
CC62283		<10	1	0.01	<10	0.84	149	<1	<0.01	3	100	15	<0.01	<2	<1	137
CC62284		<10	1	0.01	<10	0.48	136	<1	<0.01	2	110	21	<0.01	<2	<1	146
CC62285		10	1	0.25	20	1.08	2100	<1	0.03	97	970	892	0.05	14	6	51
CC62286		<10	1	0.20	10	0.96	541	<1	0.04	23	530	48	0.03	4	2	75
CC62287		<10	1	0.02	<10	0.29	73	<1	0.02	1	40	9	<0.01	<2	<1	234
CC62288		<10	<1	0.27	10	0.31	566	<1	0.02	6	770	150	<0.01	4	1	173
CC62289		<10	1	0.31	10	2.78	398	<1	0.02	42	760	24	<0.01	<2	4	765
CC62290		<10	1	0.20	10	0.72	299	<1	0.02	17	470	18	<0.01	3	3	1225

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

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62251		<20	0.01	<10	<10	17	<10	98
CC62252		<20	0.01	<10	<10	17	<10	70
CC62253		<20	0.01	<10	<10	25	<10	178
CC62254		<20	0.01	<10	10	22	<10	449
CC62255		<20	0.01	<10	10	21	<10	268
CC62256		<20	0.01	<10	<10	47	<10	503
CC62257		<20	0.02	<10	<10	41	<10	538
CC62258		<20	<0.01	<10	10	49	<10	596
CC62259		<20	0.01	<10	10	45	<10	504
CC62260		<20	0.01	<10	10	27	<10	630
CC62261		<20	0.01	<10	10	20	<10	894
CC62262		<20	0.01	<10	10	28	<10	405
CC62263		<20	0.01	<10	10	18	<10	2090
CC62264		<20	0.02	<10	10	38	<10	596
CC62265		<20	0.02	<10	<10	20	<10	646
CC62266		<20	0.01	<10	<10	30	<10	427
CC62267		<20	0.06	<10	<10	28	<10	250
CC62268		<20	0.01	<10	<10	8	<10	63
CC62269		<20	0.01	<10	<10	11	<10	46
CC62270		<20	0.02	<10	<10	24	<10	575
CC62271		<20	0.01	<10	<10	15	<10	212
CC62272		<20	0.01	<10	<10	5	<10	47
CC62273		<20	0.03	<10	<10	23	<10	2300
CC62274		<20	0.02	<10	<10	32	<10	1120
CC62275		<20	0.01	<10	<10	10	<10	310
CC62276		<20	0.02	<10	<10	28	<10	3400
CC62277		<20	0.01	<10	<10	9	<10	54
CC62278		<20	0.02	<10	<10	20	<10	101
CC62279		<20	0.02	<10	<10	34	<10	159
CC62280		<20	0.01	<10	<10	18	<10	365
CC62281		<20	<0.01	<10	<10	3	<10	267
CC62282		<20	0.04	<10	<10	52	<10	4520
CC62283		<20	<0.01	<10	<10	3	<10	61
CC62284		<20	<0.01	<10	<10	3	<10	72
CC62285		<20	0.06	<10	<10	59	<10	3430
CC62286		<20	0.03	10	<10	37	<10	301
CC62287		<20	<0.01	<10	<10	2	<10	48
CC62288		<20	0.01	<10	<10	5	<10	297
CC62289		<20	0.01	<10	<10	15	<10	97
CC62290		<20	<0.01	<10	<10	9	<10	86

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Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62291		0.30	0.004	0.2	0.67	5	<10	30	<0.5	<2	25.0	<0.5	12	11	13	3.19
CC62292		0.24	0.003	0.5	0.91	16	<10	130	<0.5	<2	17.5	<0.5	10	19	15	3.30
CC62293		0.26	0.001	0.2	1.33	10	<10	290	0.7	<2	2.07	0.5	17	17	19	4.70
CC62294		0.14	0.002	0.3	1.26	9	<10	140	0.5	<2	13.45	<0.5	7	15	11	2.53
CC62295		0.24	<0.001	0.3	0.33	5	<10	40	<0.5	<2	>25.0	<0.5	3	6	5	0.93
CC62296		0.26	0.006	0.3	1.05	14	<10	100	0.5	<2	20.2	<0.5	9	18	12	2.59
CC62297		0.22	<0.001	0.4	1.06	19	<10	150	<0.5	<2	21.2	0.5	11	18	13	3.11
CC62298		0.26	0.001	0.4	1.19	19	<10	190	0.6	<2	12.60	0.8	13	23	17	3.92
CC62299		0.14	<0.001	0.4	1.02	13	<10	170	<0.5	<2	14.50	<0.5	10	21	20	2.28
CC62300		0.10	0.012	1.3	1.18	25	<10	480	0.5	<2	8.14	2.0	35	46	91	5.25
CC62301		0.20	0.003	0.7	1.47	59	<10	220	0.6	<2	5.73	1.5	10	26	22	3.50
CC62302		0.26	0.003	0.4	1.74	23	<10	270	0.8	<2	3.74	1.0	13	29	48	3.73
CC62303		0.16	0.006	0.6	1.38	65	<10	570	0.6	<2	4.42	1.3	7	24	40	2.91
CC62304		0.16	0.004	0.5	1.44	30	<10	470	0.6	<2	2.76	1.1	8	26	29	2.96
CC62305		0.20	0.002	0.3	1.08	27	<10	1710	0.5	<2	5.95	1.1	6	19	23	2.27
CC62306		0.08	NSS	<0.2	0.40	6	<10	600	<0.5	<2	4.58	0.8	4	25	29	0.97
CC62307		0.18	0.002	0.6	1.96	18	<10	330	0.8	<2	2.76	1.2	15	33	53	3.96
CC62308		0.16	0.002	0.4	1.34	21	<10	440	0.5	<2	5.19	1.0	7	25	20	2.35
CC62309		0.24	0.002	0.5	1.54	31	<10	390	0.6	<2	7.41	1.2	8	27	27	2.68
CC62310		0.26	0.002	0.4	1.16	27	<10	270	0.5	<2	6.21	0.8	8	22	20	2.63
CC62311		0.10	0.003	0.2	1.32	21	<10	510	0.5	<2	5.26	0.9	7	22	31	2.66
CC62312		0.20	0.003	0.4	1.49	12	<10	330	0.5	<2	3.49	0.8	9	23	22	2.90
CC62313		0.28	0.003	0.3	1.16	26	<10	240	<0.5	<2	5.98	0.9	8	19	31	2.60
CC62314		0.12	0.001	0.5	0.64	9	<10	250	<0.5	<2	6.62	0.5	3	12	14	1.30
CC62315		0.16	0.006	1.0	1.63	35	<10	330	0.6	2	1.68	1.1	9	29	15	3.04
CC62316		0.22	0.001	0.7	0.96	20	<10	310	<0.5	<2	7.78	1.1	6	17	20	1.99
CC62317		0.28	0.002	0.4	1.27	22	<10	340	<0.5	<2	6.98	0.6	8	25	25	2.32
CC62318		0.08	0.001	0.4	1.31	18	<10	590	0.5	<2	4.03	0.8	8	26	28	2.40
CC62319		0.36	0.004	0.4	1.26	23	<10	460	<0.5	<2	8.22	0.6	7	26	25	2.13
CC62320		0.16	0.002	0.8	1.18	16	<10	490	0.5	<2	5.14	1.3	6	17	22	2.27
CC62321		0.08	<0.001	<0.2	1.31	13	<10	440	0.5	<2	2.46	0.6	9	23	23	2.75
CC62322		0.20	<0.001	<0.2	1.81	14	<10	100	0.6	<2	0.20	0.5	13	33	18	4.44
CC62323		0.22	0.001	<0.2	2.12	18	<10	260	0.8	<2	0.95	0.7	12	33	18	3.96
CC62324		0.26	0.002	0.3	1.41	20	<10	190	0.6	<2	6.41	<0.5	9	23	24	3.04
CC62325		0.22	<0.001	<0.2	1.20	8	<10	230	0.5	<2	3.88	1.1	8	19	19	2.66
CC62326		0.24	0.002	0.2	1.16	17	<10	170	0.5	<2	6.07	0.5	13	21	29	3.21
CC62327		0.18	0.010	0.5	1.00	34	<10	280	<0.5	<2	3.84	1.1	7	20	19	2.48
CC62328		0.28	0.008	0.6	0.98	31	<10	430	<0.5	<2	8.52	0.8	5	18	21	2.29
CC62329		0.26	0.006	0.5	0.54	28	<10	540	<0.5	2	9.36	0.6	4	11	13	1.58
CC62330		0.34	0.006	0.6	0.79	35	<10	250	<0.5	2	8.59	0.9	5	15	18	2.03

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To: ATAC RESOURCES LTD.
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62291		<10	1	0.26	10	0.71	406	<1	0.02	34	620	17	<0.01	<2	4	1095
CC62292		<10	1	0.29	10	0.93	445	<1	0.02	31	990	47	<0.01	5	3	553
CC62293		<10	1	0.79	50	0.41	890	<1	0.02	23	1320	53	0.32	3	2	47
CC62294		<10	1	0.43	10	0.48	663	<1	0.03	16	1170	15	0.09	4	2	86
CC62295		<10	1	0.09	<10	0.40	380	<1	0.02	7	310	13	<0.01	2	1	210
CC62296		<10	1	0.32	10	1.15	509	<1	0.03	24	610	17	<0.01	3	3	716
CC62297		<10	<1	0.51	10	0.92	540	<1	0.03	31	780	51	<0.01	3	4	736
CC62298		<10	1	0.37	20	4.34	633	<1	0.03	40	900	54	0.04	5	4	223
CC62299		<10	1	0.43	20	0.65	388	<1	0.03	34	960	54	0.08	<2	2	144
CC62300		<10	2	0.47	20	4.64	897	<1	0.04	128	3820	182	0.11	8	7	57
CC62301		<10	<1	0.27	10	3.60	804	<1	0.04	25	820	112	0.04	4	4	38
CC62302		<10	1	0.32	20	2.74	929	<1	0.03	31	810	59	0.04	4	5	30
CC62303		<10	1	0.21	10	1.99	663	<1	0.03	24	960	40	0.07	11	3	32
CC62304		<10	<1	0.21	10	1.29	690	<1	0.03	23	910	43	0.07	4	3	26
CC62305		<10	1	0.15	10	2.65	824	<1	0.03	13	1070	47	0.12	3	2	33
CC62306		<10	1	0.07	<10	0.65	399	<1	0.04	11	870	12	0.17	3	1	32
CC62307		10	1	0.34	20	2.13	1500	<1	0.04	34	880	71	0.04	4	6	27
CC62308		<10	<1	0.18	10	2.79	597	<1	0.04	19	840	31	0.06	3	2	29
CC62309		<10	1	0.26	10	4.89	819	<1	0.04	22	790	41	0.02	3	3	36
CC62310		10	<1	0.18	10	3.89	554	<1	0.03	17	740	44	0.03	5	3	30
CC62311		<10	1	0.22	10	2.83	576	<1	0.04	19	680	32	0.06	2	3	36
CC62312		<10	<1	0.21	10	1.82	725	4	0.04	20	520	33	0.06	2	3	34
CC62313		<10	<1	0.18	10	4.10	857	1	0.03	19	720	37	0.03	4	3	36
CC62314		<10	<1	0.09	10	3.33	283	1	0.04	6	870	15	0.12	<2	1	43
CC62315		<10	<1	0.18	10	1.02	838	1	0.03	19	720	155	0.05	3	3	22
CC62316		<10	<1	0.17	10	5.25	555	<1	0.03	14	750	85	0.03	2	2	39
CC62317		<10	<1	0.19	10	4.69	593	<1	0.03	22	750	30	0.03	<2	3	41
CC62318		<10	<1	0.18	10	1.69	553	<1	0.03	24	850	33	0.10	4	2	39
CC62319		<10	<1	0.20	10	5.57	555	1	0.03	25	970	27	0.02	2	3	51
CC62320		<10	<1	0.10	10	2.61	851	<1	0.03	16	990	40	0.08	3	1	37
CC62321		<10	1	0.19	10	1.03	609	<1	0.02	24	610	21	0.07	2	3	27
CC62322		<10	1	0.18	10	0.76	753	1	0.01	30	630	38	0.01	3	3	10
CC62323		<10	<1	0.20	20	0.85	812	1	0.03	28	450	40	0.03	2	5	20
CC62324		<10	<1	0.29	20	4.14	712	1	0.03	25	820	30	0.03	2	3	48
CC62325		10	1	0.13	10	1.56	1135	<1	0.02	16	740	26	0.07	<2	2	34
CC62326		<10	<1	0.25	20	3.95	775	<1	0.02	30	1350	29	0.04	<2	3	52
CC62327		<10	<1	0.16	10	1.98	531	<1	0.03	18	730	52	0.06	3	2	30
CC62328		<10	1	0.23	10	5.74	489	<1	0.03	18	720	45	0.04	4	2	48
CC62329		<10	<1	0.09	10	6.06	423	<1	0.02	14	540	33	0.03	4	1	47
CC62330		<10	<1	0.18	10	5.76	497	<1	0.03	16	690	33	0.04	4	2	46

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC62291		<20	0.01	<10	<10	10	<10	129
CC62292		<20	0.02	<10	<10	19	<10	161
CC62293		<20	0.08	<10	<10	20	<10	122
CC62294		<20	0.05	<10	<10	21	<10	114
CC62295		<20	0.01	<10	<10	6	<10	79
CC62296		<20	0.02	<10	<10	22	<10	118
CC62297		<20	0.01	<10	<10	19	<10	225
CC62298		<20	0.02	<10	<10	28	<10	255
CC62299		<20	0.01	<10	<10	23	<10	315
CC62300		<20	0.01	<10	10	57	<10	436
CC62301		<20	0.03	<10	<10	52	<10	547
CC62302		<20	0.03	<10	<10	53	<10	315
CC62303		<20	0.02	<10	<10	37	<10	671
CC62304		<20	0.02	<10	<10	45	<10	364
CC62305		<20	0.02	<10	<10	35	<10	300
CC62306		<20	0.01	<10	<10	15	<10	235
CC62307		<20	0.03	<10	<10	56	<10	321
CC62308		<20	0.02	<10	<10	41	<10	229
CC62309		<20	0.03	<10	<10	47	<10	262
CC62310		<20	0.02	<10	<10	41	<10	201
CC62311		<20	0.02	<10	<10	44	<10	177
CC62312		<20	0.03	<10	<10	47	<10	146
CC62313		<20	0.02	<10	<10	39	<10	199
CC62314		<20	0.01	<10	<10	18	<10	181
CC62315		<20	0.01	<10	<10	46	<10	236
CC62316		<20	0.02	<10	<10	28	<10	242
CC62317		<20	0.02	<10	<10	37	<10	151
CC62318		<20	0.02	<10	<10	37	<10	173
CC62319		<20	0.02	<10	<10	39	<10	150
CC62320		<20	0.01	<10	<10	33	<10	145
CC62321		<20	0.02	<10	<10	44	<10	141
CC62322		<20	0.04	<10	<10	62	<10	159
CC62323		<20	0.03	<10	<10	66	<10	202
CC62324		<20	0.03	<10	<10	49	<10	126
CC62325		<20	0.02	<10	<10	43	<10	143
CC62326		<20	0.02	<10	<10	41	<10	731
CC62327		<20	0.02	<10	<10	33	<10	273
CC62328		<20	0.02	<10	<10	32	<10	256
CC62329		<20	0.01	<10	<10	20	<10	137
CC62330		<20	0.02	<10	<10	27	<10	178

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62331		0.20	0.008	0.5	1.14	21	<10	260	<0.5	<2	6.00	0.8	5	21	23	2.03
CC62332		0.16	0.004	0.6	1.37	18	<10	440	0.5	<2	5.10	0.7	9	29	27	2.76
CC62333		0.36	0.006	0.5	1.09	16	<10	290	<0.5	<2	8.80	2.0	6	22	28	1.98
CC62334		0.22	0.006	0.7	1.24	22	<10	540	<0.5	2	4.71	1.0	9	26	17	2.47
CC62335		0.20	0.851	0.5	1.10	18	<10	400	<0.5	<2	4.94	1.7	8	23	22	2.51
CC62336		0.38	0.002	<0.2	1.07	15	<10	170	<0.5	<2	5.44	0.6	9	20	24	2.79
CC62337		0.26	0.002	0.2	0.95	15	<10	140	<0.5	<2	6.79	0.5	7	18	21	2.40
CC62338		0.28	0.002	0.3	1.00	11	<10	200	<0.5	2	7.30	0.5	8	18	22	2.34
CC62339		0.28	0.004	<0.2	1.04	10	<10	220	<0.5	<2	8.78	0.5	7	20	20	2.10
CC62340		0.22	0.019	1.4	0.85	50	<10	240	<0.5	<2	8.63	0.7	5	17	34	2.19
CC62341		0.14	0.006	0.6	1.25	50	<10	300	0.5	2	6.40	0.6	7	21	23	2.77
CC62342		0.10	0.019	0.9	1.20	33	10	580	0.5	8	2.92	1.1	40	43	91	5.29
CC62343		0.14	0.223	2.6	0.87	183	<10	730	<0.5	24	3.50	2.6	33	31	120	4.78
CC62344		0.30	0.119	5.7	0.78	74	10	570	<0.5	30	5.71	3.6	68	37	160	8.35
CC62345		0.20	0.135	3.8	1.15	56	10	520	0.5	25	4.82	5.2	37	34	81	6.36
CC62346		0.22	0.054	4.2	0.94	43	<10	600	<0.5	16	8.97	3.9	22	27	57	4.32
CC62347		0.16	0.018	1.4	1.49	30	<10	550	0.6	18	4.08	2.2	17	32	37	4.08
CC62348		0.22	0.007	1.0	1.68	22	<10	430	0.7	6	3.64	1.6	13	30	23	3.78
CC62349		0.16	0.016	2.3	1.58	27	<10	410	0.6	9	3.64	2.1	16	31	35	3.85
CC62350		0.16	0.007	0.9	1.42	19	<10	250	0.6	2	5.61	1.9	18	35	41	4.06
CC62351		0.20	0.001	0.3	2.04	14	<10	400	0.7	2	0.79	0.5	10	33	17	3.22
CC62352		0.20	0.003	0.3	1.68	19	<10	1140	0.7	<2	8.97	3.1	5	41	9	1.82
CC62353		0.14	0.007	0.4	2.37	28	<10	410	1.0	<2	2.28	4.8	11	38	29	3.53
CC62354		0.18	0.003	0.3	1.99	16	<10	270	0.8	<2	0.69	0.5	12	36	33	3.56
CC62355		0.30	0.008	0.4	2.35	15	<10	340	0.9	2	0.67	0.5	11	38	20	3.73
CC62356		0.22	<0.001	0.6	2.39	15	<10	250	0.9	<2	2.46	1.3	9	35	20	3.38
CC62357		0.10	0.002	0.7	1.61	14	<10	360	0.6	<2	6.30	1.9	6	21	11	2.06
CC62358		0.10	0.001	0.3	2.89	11	<10	400	1.0	<2	1.44	2.6	10	39	16	3.52
CC62359		0.18	0.001	0.4	2.30	16	<10	470	0.8	2	1.44	1.7	9	37	20	3.44
CC62360		0.14	0.002	0.6	1.99	13	<10	510	0.8	<2	2.31	2.8	10	31	37	3.21
CC62361		0.14	0.003	1.0	1.96	19	<10	250	0.8	<2	3.03	1.4	10	32	37	3.38
CC62362		0.16	0.003	2.9	2.80	29	<10	270	1.1	<2	0.76	2.2	12	40	29	4.50
CC62363		0.14	<0.001	0.2	2.80	11	<10	340	0.8	<2	0.53	1.6	12	40	11	3.40
CC62364		0.16	<0.001	0.9	2.67	21	<10	310	0.9	<2	0.53	1.9	13	41	21	4.12
CC62365		0.22	0.008	0.2	2.34	14	<10	300	0.8	<2	0.47	<0.5	11	38	17	3.46
CC62366		0.22	<0.001	0.3	2.30	12	<10	300	0.6	<2	0.43	2.9	11	36	16	3.63
CC62367		0.24	0.001	0.5	2.13	14	<10	290	0.8	<2	0.44	<0.5	10	36	23	3.37
CC62368		0.18	0.002	1.5	2.37	22	<10	310	0.9	<2	2.61	1.1	11	35	28	3.84
CC62369		0.18	0.001	0.5	2.02	14	<10	390	0.7	<2	0.74	12.6	11	33	28	3.40
CC62370		0.14	0.001	0.6	1.89	13	<10	450	0.7	<2	1.31	1.1	11	32	25	3.12

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62331		10	1	0.18	20	3.98	388	<1	0.03	20	830	43	0.04	2	2	38
CC62332		<10	<1	0.18	10	3.11	838	<1	0.03	30	900	29	0.06	2	3	35
CC62333		<10	<1	0.19	10	6.04	390	<1	0.02	23	700	46	0.02	3	2	51
CC62334		<10	<1	0.16	10	2.77	1835	<1	0.02	21	1070	32	0.08	2	2	44
CC62335		<10	1	0.16	10	2.88	969	<1	0.03	23	880	26	0.08	<2	3	46
CC62336		<10	1	0.13	10	3.66	832	<1	0.02	27	710	20	0.02	2	3	37
CC62337		<10	1	0.17	10	4.46	539	1	0.02	22	680	20	0.02	2	3	48
CC62338		<10	<1	0.17	10	4.82	581	<1	0.02	25	710	22	0.02	<2	2	50
CC62339		<10	1	0.20	10	5.45	559	1	0.02	24	710	20	0.02	2	2	67
CC62340		<10	1	0.18	10	5.78	488	<1	0.03	18	680	42	0.04	5	2	47
CC62341		<10	1	0.18	10	3.90	724	1	0.03	18	780	42	0.05	4	2	42
CC62342		<10	1	0.41	20	0.76	778	1	0.04	132	3520	205	0.15	5	5	35
CC62343		<10	1	0.29	20	0.89	824	1	0.03	128	3260	458	0.15	11	3	36
CC62344		<10	1	0.38	30	2.15	1220	3	0.02	176	2360	692	0.05	21	9	35
CC62345		<10	1	0.28	30	2.69	1505	2	0.02	109	2220	474	0.07	8	6	32
CC62346		<10	1	0.28	20	5.71	1300	2	0.03	68	1660	611	0.05	8	3	52
CC62347		<10	<1	0.23	20	2.18	1150	1	0.03	52	1820	253	0.10	3	3	31
CC62348		<10	<1	0.16	20	1.91	1125	2	0.03	37	1040	147	0.06	2	3	31
CC62349		<10	<1	0.21	20	2.01	1300	1	0.03	47	1510	495	0.08	3	3	32
CC62350		<10	<1	0.21	20	3.51	1445	3	0.03	59	1590	268	0.07	3	3	37
CC62351		10	<1	0.14	20	0.70	703	<1	0.03	22	460	32	0.02	2	4	22
CC62352		<10	<1	0.22	30	5.60	556	<1	0.04	14	4940	81	0.03	4	5	105
CC62353		10	1	0.15	20	1.82	857	1	0.04	31	410	60	0.02	<2	7	24
CC62354		10	<1	0.19	20	0.82	709	<1	0.04	31	270	27	0.01	3	6	24
CC62355		10	1	0.21	20	0.81	639	<1	0.04	30	220	61	0.01	2	7	23
CC62356		10	1	0.17	20	1.68	617	1	0.04	22	430	60	0.03	2	6	24
CC62357		<10	1	0.09	10	3.95	816	<1	0.03	13	1430	31	0.05	2	3	42
CC62358		10	<1	0.12	20	1.16	811	<1	0.04	24	510	76	0.02	3	6	21
CC62359		10	<1	0.18	20	1.27	526	<1	0.05	27	340	46	0.02	2	6	25
CC62360		10	<1	0.17	20	1.45	879	<1	0.04	25	560	39	0.03	4	5	28
CC62361		10	<1	0.26	20	2.14	675	1	0.04	33	950	131	0.03	7	5	36
CC62362		10	1	0.24	30	1.01	565	1	0.03	34	300	596	0.02	4	8	25
CC62363		10	1	0.13	20	0.76	617	<1	0.04	24	120	111	0.01	<2	6	22
CC62364		10	1	0.20	20	0.81	799	1	0.03	31	220	264	0.02	2	7	20
CC62365		10	<1	0.15	20	0.76	509	<1	0.04	27	240	66	0.01	<2	6	22
CC62366		10	1	0.17	20	0.72	688	1	0.03	24	220	110	0.02	<2	5	19
CC62367		10	1	0.14	20	0.72	524	<1	0.03	30	170	44	0.01	2	6	21
CC62368		10	<1	0.26	20	1.99	833	1	0.03	33	470	452	0.02	3	6	30
CC62369		10	<1	0.16	20	0.72	652	<1	0.03	28	390	84	0.02	<2	5	23
CC62370		10	<1	0.16	10	0.69	604	<1	0.03	22	570	34	0.05	<2	4	28

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC62331		<20	0.02	<10	<10	36	<10	206
CC62332		<20	0.02	<10	<10	39	<10	200
CC62333		<20	0.02	<10	<10	33	<10	366
CC62334		<20	0.02	<10	<10	34	<10	571
CC62335		<20	0.02	<10	<10	35	<10	232
CC62336		<20	0.03	<10	<10	43	<10	128
CC62337		<20	0.02	<10	<10	36	<10	103
CC62338		<20	0.02	<10	<10	35	<10	111
CC62339		<20	0.02	<10	<10	35	<10	112
CC62340		<20	0.01	<10	<10	30	<10	175
CC62341		<20	0.01	<10	<10	41	<10	163
CC62342		<20	0.01	<10	10	52	<10	424
CC62343		<20	0.01	<10	10	38	<10	744
CC62344		<20	<0.01	<10	<10	38	<10	1780
CC62345		<20	0.01	<10	<10	44	<10	1410
CC62346		<20	0.01	<10	<10	36	<10	1130
CC62347		<20	0.02	<10	<10	47	<10	599
CC62348		<20	0.02	<10	<10	56	<10	378
CC62349		<20	0.02	<10	<10	53	<10	583
CC62350		<20	0.01	<10	<10	58	<10	568
CC62351		<20	0.04	<10	<10	68	<10	189
CC62352		<20	0.02	<10	10	64	<10	1385
CC62353		<20	0.04	<10	<10	79	<10	1805
CC62354		<20	0.06	<10	<10	70	<10	131
CC62355		<20	0.06	<10	<10	79	<10	208
CC62356		<20	0.04	<10	<10	75	<10	225
CC62357		<20	0.03	<10	<10	52	<10	450
CC62358		<20	0.05	<10	<10	87	<10	1175
CC62359		<20	0.06	<10	<10	77	<10	634
CC62360		<20	0.03	<10	<10	63	<10	619
CC62361		<20	0.04	<10	<10	65	<10	892
CC62362		<20	0.10	<10	<10	85	<10	804
CC62363		<20	0.08	<10	<10	89	<10	489
CC62364		<20	0.06	<10	<10	87	<10	339
CC62365		<20	0.07	<10	<10	76	<10	171
CC62366		<20	0.06	<10	<10	80	<10	389
CC62367		<20	0.07	<10	<10	69	<10	138
CC62368		<20	0.05	<10	<10	81	<10	440
CC62369		<20	0.04	<10	<10	66	<10	2250
CC62370		<20	0.04	<10	<10	64	<10	283

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CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62371		0.20	0.003	0.5	1.89	18	<10	320	0.8	<2	5.33	2.1	12	29	46	3.41
CC62372		0.14	0.003	0.8	1.74	26	<10	480	0.7	<2	1.64	1.5	15	32	48	4.31
CC62373		0.18	0.001	<0.2	2.19	15	<10	400	0.7	<2	0.50	2.6	11	34	15	3.56
CC62374		0.14	0.001	0.2	2.49	21	<10	500	0.9	<2	0.78	1.5	13	36	21	3.92
CC62375		0.18	0.002	0.3	1.85	16	<10	290	0.6	<2	0.78	2.8	12	37	20	3.43
CC62376		0.18	0.001	0.3	2.25	23	<10	420	0.8	<2	0.73	5.7	12	36	43	3.66
CC62377		0.14	0.001	0.8	2.02	17	<10	400	0.8	<2	1.03	2.8	12	35	30	3.49
CC62378		0.20	<0.001	0.2	2.39	13	<10	390	0.8	2	0.61	3.8	14	37	22	3.87
CC62379		0.14	0.001	0.8	1.46	23	<10	310	0.7	2	4.52	21.5	9	27	27	3.03
CC62380		0.18	0.003	0.4	1.32	18	<10	300	0.5	<2	5.54	4.9	9	17	47	3.34
CC62381		0.26	0.001	0.4	1.49	13	<10	230	0.6	<2	7.33	1.8	9	23	30	2.66
CC62382		0.14	0.001	0.5	1.17	11	<10	160	<0.5	2	21.2	1.1	11	31	14	2.55
CC62383		0.16	<0.001	<0.2	3.02	3	<10	140	0.5	<2	12.95	<0.5	20	84	39	4.57
CC62384		0.12	<0.001	0.3	3.59	10	<10	140	0.6	2	0.82	<0.5	35	189	45	6.52
CC62385		0.14	0.001	0.2	2.62	6	<10	140	0.5	<2	0.55	<0.5	19	82	51	4.89
CC62386		0.18	<0.001	<0.2	3.34	3	<10	120	<0.5	<2	0.88	<0.5	30	119	58	5.43
CC62387		0.16	<0.001	0.2	0.64	10	<10	130	<0.5	<2	23.1	0.5	5	7	7	1.29
CC62390		0.12	<0.001	0.5	1.30	13	<10	220	0.8	2	8.79	1.4	9	17	15	2.81
CC62391		0.14	0.006	0.3	0.62	13	<10	90	<0.5	<2	21.9	0.9	8	9	18	1.58
CC62392		0.12	0.001	0.5	0.68	17	<10	3040	0.6	<2	16.6	2.2	8	10	13	2.21
CC62401		0.32	0.002	0.2	0.26	17	<10	150	<0.5	<2	17.5	0.8	3	7	5	1.09
CC62402		0.12	0.001	0.6	0.63	6	<10	260	<0.5	<2	10.90	1.1	4	17	12	1.35
CC62403		0.14	0.002	0.4	1.10	37	<10	190	1.3	2	5.24	0.6	13	21	20	6.20
CC62404		0.28	0.040	0.6	0.48	25	<10	670	<0.5	5	13.00	0.9	7	18	15	1.86
CC62405		0.26	0.005	0.8	0.14	13	<10	70	<0.5	5	18.8	0.8	1	6	1	0.68
CC62406		0.24	0.014	0.7	0.20	23	<10	250	<0.5	2	17.6	1.6	4	7	7	1.16
CC62407		0.20	0.081	2.0	0.27	42	<10	960	<0.5	4	15.8	9.1	7	11	15	1.81
CC62408		0.32	0.087	1.3	0.64	106	<10	360	<0.5	59	16.2	1.9	9	34	19	2.56
CC62409		0.28	0.014	0.8	2.88	35	<10	250	0.5	2	10.20	1.9	34	180	59	5.94
CC62410		0.28	0.007	0.9	2.53	58	10	470	0.5	<2	7.17	1.5	48	142	105	7.39
CC62411		0.30	0.002	0.2	1.47	6	<10	340	<0.5	<2	18.2	<0.5	40	64	75	3.97
CC62412		0.28	<0.001	0.2	0.15	7	<10	140	<0.5	<2	>25.0	1.1	2	3	<1	0.75
CC62413		0.16	<0.001	0.9	0.95	18	<10	160	0.5	<2	12.85	1.7	11	19	12	3.01
CC62414		0.24	<0.001	0.9	0.34	8	<10	80	<0.5	<2	>25.0	1.4	4	6	8	1.20
CC62415		0.26	0.001	0.4	1.78	10	<10	180	0.5	<2	7.30	<0.5	29	101	43	5.09
CC62416		0.28	0.001	0.5	0.73	20	<10	210	<0.5	<2	15.8	0.6	15	18	27	4.00
CC62417		0.18	0.001	0.4	3.23	6	<10	210	0.5	<2	8.35	<0.5	32	201	53	5.09
CC62418		0.26	0.001	0.5	0.67	11	<10	360	<0.5	<2	15.4	1.0	5	13	13	1.60
CC62419		0.18	<0.001	0.2	4.13	4	<10	730	<0.5	<2	1.62	<0.5	41	224	70	7.09
CC62420		0.20	0.002	0.5	1.60	18	<10	500	<0.5	<2	3.13	0.5	32	62	58	6.21

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62371		<10	<1	0.39	10	3.07	722	<1	0.03	32	680	50	0.03	2	5	52
CC62372		<10	<1	0.23	20	0.96	658	3	0.03	48	1100	108	0.06	4	5	28
CC62373		10	1	0.16	20	0.73	696	<1	0.03	23	190	32	0.02	<2	5	16
CC62374		10	<1	0.20	20	0.76	1065	<1	0.03	27	380	44	0.03	<2	5	22
CC62375		10	<1	0.16	20	0.93	673	<1	0.03	28	420	35	0.03	<2	4	19
CC62376		10	<1	0.18	20	0.80	714	<1	0.03	31	490	48	0.03	3	5	21
CC62377		10	<1	0.23	20	0.87	810	<1	0.03	31	550	124	0.04	3	5	25
CC62378		<10	<1	0.24	20	0.88	836	1	0.03	31	270	53	0.02	<2	5	16
CC62379		<10	<1	0.12	20	2.69	1035	3	0.03	26	610	111	0.06	2	4	35
CC62380		<10	<1	0.43	20	3.19	756	2	0.03	27	1030	68	0.06	9	3	74
CC62381		<10	<1	0.31	20	3.90	776	1	0.03	31	670	91	0.02	<2	4	83
CC62382		<10	1	0.30	10	0.78	448	2	0.02	41	450	39	<0.01	2	3	180
CC62383		10	<1	0.55	10	2.40	772	<1	0.02	83	590	4	0.02	<2	6	317
CC62384		10	<1	0.24	10	3.21	897	1	0.03	157	710	13	0.07	<2	10	28
CC62385		<10	<1	0.20	10	1.53	542	1	0.04	74	600	8	0.04	<2	4	38
CC62386		10	<1	0.16	10	2.65	671	2	0.04	97	590	<2	0.05	<2	4	68
CC62387		<10	<1	0.32	10	2.05	330	1	0.02	17	110	17	<0.01	<2	2	248
CC62390		<10	1	0.46	20	2.58	702	1	0.03	25	620	25	0.07	2	3	92
CC62391		<10	<1	0.27	10	1.89	304	1	0.02	26	250	25	<0.01	<2	2	201
CC62392		<10	1	0.28	10	4.75	767	4	0.05	33	350	30	0.14	3	2	226
CC62401		<10	<1	0.10	10	10.60	688	3	0.02	15	1340	61	<0.01	2	1	80
CC62402		<10	<1	0.07	10	6.93	1115	1	0.03	15	700	84	0.09	<2	1	42
CC62403		<10	<1	0.31	20	2.92	1545	3	0.03	26	3870	71	0.91	<2	2	45
CC62404		<10	<1	0.13	10	8.91	1110	5	0.02	29	450	111	0.16	2	2	86
CC62405		<10	<1	0.03	10	11.65	785	2	0.02	15	210	60	<0.01	<2	1	88
CC62406		<10	<1	0.06	10	10.80	719	12	0.02	33	440	127	<0.01	2	1	71
CC62407		<10	<1	0.07	10	9.67	2250	15	0.03	47	730	1020	0.07	7	1	66
CC62408		<10	1	0.16	10	9.51	810	6	0.02	48	680	368	<0.01	5	3	70
CC62409		10	1	0.25	20	6.77	796	12	0.02	149	2430	134	0.07	3	9	84
CC62410		10	1	0.39	40	3.58	1545	11	0.03	189	2990	77	0.15	6	7	58
CC62411		<10	1	0.25	20	0.68	891	<1	0.02	105	1200	32	<0.01	<2	4	84
CC62412		<10	1	0.05	10	0.37	1385	<1	0.01	7	270	48	<0.01	<2	1	159
CC62413		<10	<1	0.21	20	0.43	909	2	0.03	36	1260	93	0.15	<2	1	87
CC62414		<10	<1	0.11	10	0.39	718	<1	0.02	12	330	113	<0.01	3	1	233
CC62415		<10	1	0.37	20	2.23	754	<1	0.02	148	1370	27	0.06	<2	5	83
CC62416		<10	<1	0.25	20	0.83	718	<1	0.02	45	1090	51	<0.01	2	3	306
CC62417		10	<1	0.19	10	3.96	966	<1	0.03	162	920	22	0.06	2	9	102
CC62418		<10	<1	0.10	10	7.10	1370	<1	0.03	15	470	36	0.05	<2	1	77
CC62419		10	1	0.85	10	4.12	746	<1	0.02	170	470	13	0.08	<2	12	24
CC62420		<10	<1	0.34	10	1.81	943	<1	0.02	131	860	34	0.08	2	5	24

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Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC62371		<20	0.03	<10	<10	60	<10	1150
CC62372		<20	0.03	<10	<10	60	<10	816
CC62373		<20	0.04	<10	<10	77	<10	762
CC62374		<20	0.04	<10	<10	80	<10	497
CC62375		<20	0.05	<10	<10	68	<10	1040
CC62376		<20	0.04	<10	<10	72	<10	2130
CC62377		<20	0.04	<10	<10	65	<10	1010
CC62378		<20	0.02	<10	<10	74	<10	625
CC62379		<20	0.02	<10	<10	47	<10	3230
CC62380		<20	0.02	<10	<10	34	<10	2050
CC62381		<20	0.03	<10	<10	51	<10	435
CC62382		<20	0.06	<10	<10	22	<10	553
CC62383		<20	0.30	<10	<10	55	<10	78
CC62384		<20	0.28	<10	<10	95	<10	144
CC62385		<20	0.27	<10	<10	72	<10	95
CC62386		<20	0.47	<10	<10	74	<10	95
CC62387		<20	0.01	<10	<10	9	<10	185
CC62390		<20	0.02	<10	<10	23	<10	555
CC62391		<20	0.01	<10	<10	12	<10	223
CC62392		<20	0.01	<10	<10	15	<10	692
CC62401		<20	<0.01	<10	<10	29	<10	194
CC62402		<20	0.01	<10	<10	54	<10	298
CC62403		<20	0.03	<10	<10	47	<10	222
CC62404		<20	0.02	<10	<10	23	<10	319
CC62405		<20	<0.01	<10	<10	20	<10	267
CC62406		<20	<0.01	<10	<10	43	<10	433
CC62407		<20	<0.01	<10	<10	37	<10	1565
CC62408		<20	0.01	<10	<10	36	20	498
CC62409		<20	0.05	<10	<10	109	<10	499
CC62410		<20	0.01	<10	<10	90	<10	465
CC62411		<20	0.01	<10	<10	36	<10	184
CC62412		<20	<0.01	<10	<10	5	<10	352
CC62413		<20	0.01	<10	<10	24	<10	699
CC62414		<20	<0.01	<10	<10	6	<10	597
CC62415		<20	0.02	<10	<10	38	<10	205
CC62416		<20	0.02	<10	<10	16	<10	300
CC62417		<20	0.15	<10	<10	77	<10	207
CC62418		<20	0.02	<10	<10	22	<10	417
CC62419		<20	0.27	<10	<10	103	<10	151
CC62420		<20	0.06	<10	<10	37	<10	262

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC62421		0.30	0.001	1.0	0.86	16	<10	3040	<0.5	<2	17.1	1.3	10	23	25	2.50
CC62422		0.20	0.001	1.0	0.88	12	<10	720	0.6	<2	10.95	1.3	8	11	23	2.44
CC62423		0.24	0.002	0.6	0.94	9	<10	530	0.5	<2	12.15	0.7	8	13	19	2.21
CC62424		0.24	0.002	0.8	1.00	11	<10	1150	0.6	<2	9.52	1.6	9	15	19	2.42
CC62425		0.22	0.001	0.7	1.02	11	<10	430	0.5	<2	8.82	1.4	7	17	18	2.10
CC62426		0.12	0.001	0.8	1.69	14	<10	650	0.8	<2	2.98	2.7	11	27	24	3.25
CC62427		0.26	0.001	0.4	0.88	6	<10	210	0.5	<2	11.55	2.2	6	12	14	1.54
CC62428		0.22	0.001	0.4	1.37	12	<10	170	0.7	<2	7.46	0.9	9	21	15	2.43
CC62429		0.26	0.001	0.5	1.24	11	<10	200	0.6	<2	9.20	1.5	8	18	16	1.98
CC62430		0.26	0.002	0.6	1.00	9	<10	190	0.6	<2	10.50	1.4	7	14	15	1.82
CC62431		0.28	0.002	0.8	0.49	15	<10	1080	<0.5	<2	16.3	3.1	4	7	10	1.18
CC62432		0.26	0.004	1.0	0.87	13	<10	220	0.5	<2	10.80	1.4	5	16	18	1.88
CC62433		0.20	0.001	0.5	0.40	6	<10	120	<0.5	<2	15.4	0.7	3	6	10	0.87
CC62434		0.18	<0.001	1.5	0.47	4	<10	120	<0.5	<2	16.5	0.7	3	5	12	0.57
CC62435		0.18	0.002	0.6	0.70	5	<10	100	<0.5	<2	12.30	0.9	4	9	12	0.92
CC62436		0.20	0.004	0.8	0.92	34	<10	240	0.7	<2	11.80	2.3	6	13	27	2.12
CC62451		0.18	0.226	3.8	0.52	133	<10	450	<0.5	212	13.30	3.2	15	23	63	2.97
CC62452		0.20	0.025	1.6	0.61	42	<10	420	<0.5	27	12.70	1.5	17	24	59	2.44
CC62453		0.16	0.271	2.4	0.96	205	<10	530	<0.5	61	8.33	1.9	36	38	114	4.96
CC62454		0.12	0.220	3.8	1.02	133	<10	850	0.5	293	11.00	2.2	15	35	48	3.56
CC62455		0.16	0.017	1.1	1.01	27	<10	140	<0.5	5	7.97	1.2	6	17	16	1.93
CC62456		0.14	0.010	1.1	0.45	43	<10	130	<0.5	13	15.4	1.9	5	10	12	1.57
CC62457		0.16	0.023	0.5	1.00	38	<10	170	<0.5	8	9.60	1.0	7	20	16	2.52
CC62458		0.16	0.026	1.7	1.53	28	<10	340	0.5	22	6.71	1.6	17	36	44	4.12
CC62459		0.12	0.013	1.2	1.34	20	<10	250	<0.5	10	5.96	1.3	11	26	29	2.98
CC62460		0.12	0.016	1.5	1.73	40	<10	320	0.8	5	6.71	2.5	12	33	25	3.69
CC62461		0.12	0.002	0.5	0.59	14	<10	150	<0.5	<2	16.1	1.4	4	13	8	1.23
CC62462		0.14	0.001	0.6	0.37	14	<10	90	<0.5	<2	16.4	1.8	3	10	7	1.09
CC62463		0.14	0.002	0.4	0.85	13	<10	200	<0.5	<2	12.00	1.3	6	21	13	1.92
CC62464		0.10	NSS	0.6	1.43	15	<10	240	0.7	4	4.04	2.1	10	35	20	3.05
CC62465		0.08	0.001	0.3	0.56	7	<10	130	<0.5	<2	8.89	1.3	4	18	12	1.38
CC62466		0.10	0.010	0.5	0.56	17	<10	230	<0.5	<2	14.4	2.0	5	25	14	1.36
CC62467		0.12	0.010	0.5	1.18	50	10	310	1.5	2	5.25	1.5	15	23	23	7.29
CC62468		0.16	0.006	0.4	0.76	28	<10	700	<0.5	<2	6.22	1.1	11	19	32	2.72
CC62469		0.16	0.009	0.7	0.20	17	<10	130	<0.5	4	17.9	1.1	2	9	2	0.85
CC62470		0.16	0.019	0.2	0.14	21	<10	120	<0.5	10	18.5	1.9	2	6	4	0.76
CC62471		0.12	0.022	1.5	0.44	23	<10	510	<0.5	3	15.7	6.0	5	12	9	1.48
CC62472		0.14	0.048	0.9	1.00	59	<10	250	<0.5	12	11.40	2.0	16	49	23	3.46
CC62473		0.12	0.040	0.6	1.50	48	<10	200	<0.5	6	11.90	1.6	15	91	28	3.47
CC62474		0.12	0.011	0.2	4.40	23	10	240	0.7	37	2.87	0.8	57	305	97	8.37

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62421		<10	<1	0.25	10	2.05	1030	<1	0.04	33	600	89	<0.01	3	3	217
CC62422		<10	<1	0.34	10	3.09	1320	<1	0.03	23	640	75	0.08	4	3	115
CC62423		<10	<1	0.30	10	2.49	661	<1	0.02	21	500	43	0.05	2	3	153
CC62424		<10	<1	0.26	10	5.12	1090	1	0.04	24	470	74	0.06	2	3	100
CC62425		<10	<1	0.21	10	5.50	866	<1	0.04	20	500	55	0.05	2	2	69
CC62426		<10	<1	0.21	20	1.46	1780	1	0.04	27	1110	94	0.14	4	2	30
CC62427		<10	<1	0.22	10	7.77	804	1	0.03	18	480	63	0.06	3	2	86
CC62428		<10	<1	0.18	20	5.08	687	1	0.03	21	770	34	0.07	2	3	54
CC62429		<10	<1	0.17	10	6.37	1015	<1	0.04	19	550	52	0.06	2	2	64
CC62430		<10	<1	0.18	10	7.18	959	1	0.03	17	610	67	0.07	<2	2	59
CC62431		<10	<1	0.14	10	9.99	1840	<1	0.03	9	260	88	<0.01	3	1	105
CC62432		<10	<1	0.16	20	7.43	829	1	0.04	15	440	103	0.04	3	2	49
CC62433		<10	<1	0.08	10	9.37	477	1	0.02	11	350	45	0.04	2	1	71
CC62434		<10	<1	0.09	10	9.95	498	1	0.03	4	530	49	0.06	3	1	58
CC62435		<10	<1	0.10	10	8.52	448	<1	0.02	8	900	47	0.08	3	1	42
CC62436		<10	<1	0.18	10	8.18	1230	1	0.03	22	630	267	0.05	10	2	54
CC62451		<10	<1	0.20	10	9.13	769	2	0.03	62	2710	710	0.03	21	3	74
CC62452		<10	<1	0.26	10	8.65	494	1	0.03	70	3370	299	0.04	12	3	76
CC62453		<10	<1	0.42	20	5.28	781	2	0.03	120	2950	441	0.04	11	5	52
CC62454		<10	<1	0.40	10	7.33	994	1	0.03	61	2970	632	0.07	14	4	77
CC62455		<10	<1	0.13	10	5.28	658	<1	0.04	13	840	248	0.07	2	1	42
CC62456		<10	<1	0.10	10	9.38	993	<1	0.03	14	1030	236	<0.01	4	1	62
CC62457		<10	<1	0.15	20	6.29	729	1	0.04	28	1200	96	0.06	4	2	50
CC62458		<10	1	0.39	20	3.84	877	2	0.05	59	1370	186	0.04	4	5	61
CC62459		<10	<1	0.27	20	3.77	637	2	0.06	35	1180	107	0.06	3	4	51
CC62460		<10	1	0.20	20	4.39	2110	5	0.04	51	1850	753	0.07	5	3	40
CC62461		<10	1	0.08	10	9.54	987	4	0.03	19	890	97	0.08	3	1	61
CC62462		<10	<1	0.08	10	9.80	797	4	0.02	18	630	136	<0.01	3	1	59
CC62463		<10	1	0.20	20	7.84	1055	2	0.03	22	1100	103	0.08	3	1	51
CC62464		<10	1	0.14	10	2.01	2450	2	0.03	24	1850	161	0.20	5	1	22
CC62465		<10	1	0.07	10	5.64	1410	2	0.03	11	980	77	0.11	3	1	31
CC62466		<10	<1	0.13	10	8.43	1560	1	0.03	22	1210	210	0.10	4	1	45
CC62467		<10	<1	0.40	20	3.05	1855	5	0.02	30	4360	169	0.64	4	3	40
CC62468		<10	<1	0.17	20	4.59	1805	4	0.03	32	910	139	0.13	4	1	42
CC62469		<10	<1	0.06	10	10.70	891	4	0.02	16	400	114	<0.01	3	1	91
CC62470		<10	<1	0.05	10	11.05	658	6	0.02	21	350	117	<0.01	3	1	70
CC62471		<10	1	0.10	10	9.30	1770	9	0.03	28	690	430	<0.01	5	1	58
CC62472		<10	1	0.19	20	7.92	1335	9	0.03	69	1170	291	0.07	5	3	55
CC62473		<10	<1	0.15	10	8.70	766	17	0.03	81	2220	114	0.07	4	4	60
CC62474		10	1	0.43	30	5.02	881	3	0.02	236	1950	53	0.07	5	12	30

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
CC62421		<20	0.03	<10	<10	18	<10	542
CC62422		<20	0.01	<10	<10	13	<10	469
CC62423		<20	0.01	<10	<10	16	<10	248
CC62424		<20	0.02	<10	<10	25	<10	466
CC62425		<20	0.03	<10	<10	29	<10	448
CC62426		<20	0.02	<10	<10	46	<10	636
CC62427		<20	0.01	<10	<10	21	<10	341
CC62428		<20	0.02	<10	<10	35	<10	291
CC62429		<20	0.03	<10	<10	32	<10	417
CC62430		<20	0.02	<10	<10	26	<10	466
CC62431		<20	0.01	<10	<10	13	<10	867
CC62432		<20	0.05	<10	<10	35	<10	580
CC62433		<20	0.01	<10	<10	13	<10	349
CC62434		<20	0.01	<10	<10	13	<10	303
CC62435		<20	0.01	<10	<10	20	<10	262
CC62436		<20	0.02	<10	<10	32	<10	800
CC62451		<20	0.01	<10	10	34	10	1010
CC62452		<20	0.01	<10	10	37	<10	472
CC62453		<20	0.01	<10	<10	43	<10	651
CC62454		<20	0.01	<10	<10	43	10	961
CC62455		<20	0.02	<10	<10	34	<10	248
CC62456		<20	0.01	<10	<10	22	<10	527
CC62457		<20	0.02	<10	<10	38	<10	264
CC62458		<20	0.04	<10	<10	51	<10	495
CC62459		<20	0.05	<10	<10	46	<10	315
CC62460		<20	0.03	<10	<10	87	<10	996
CC62461		<20	0.01	<10	<10	40	<10	401
CC62462		<20	0.01	<10	<10	32	<10	422
CC62463		<20	0.01	<10	<10	61	<10	295
CC62464		<20	0.01	<10	10	120	<10	613
CC62465		<20	0.01	<10	<10	54	<10	291
CC62466		<20	0.01	<10	<10	53	<10	562
CC62467		<20	0.03	<10	<10	49	<10	554
CC62468		<20	0.01	<10	<10	40	<10	305
CC62469		<20	<0.01	<10	<10	18	<10	353
CC62470		<20	<0.01	<10	<10	32	<10	411
CC62471		<20	0.01	<10	10	44	<10	1515
CC62472		<20	0.01	<10	<10	51	<10	681
CC62473		<20	0.03	<10	10	79	<10	366
CC62474		<20	0.06	<10	<10	135	<10	390

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 26-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081261

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE VA09081260

Project: RAU

P.O. No.:

This report is for 225 Soil samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62001		0.16	0.001	0.8	1.10	37	<10	540	<0.5	2	0.06	0.6	3	26	11	3.98
CC62002		0.10	0.001	1.7	1.41	166	<10	370	<0.5	2	0.06	3.2	5	48	145	4.13
CC62003		0.14	<0.001	5.4	2.26	24	<10	290	0.6	<2	0.08	1.0	8	37	26	3.31
CC62004		0.08	0.001	3.9	2.16	24	<10	180	0.6	<2	0.08	1.0	7	43	24	3.23
CC62005		0.14	0.002	1.4	1.13	223	<10	160	<0.5	<2	0.02	0.5	63	38	229	7.75
CC62006		0.08	0.004	3.0	3.95	49	<10	330	1.0	<2	0.11	1.4	19	58	70	3.80
CC62007		0.10	0.005	2.8	3.08	21	<10	220	0.7	<2	0.08	0.6	9	43	46	3.45
CC62008		0.12	0.001	0.7	1.22	29	<10	90	<0.5	<2	0.06	<0.5	3	24	11	3.06
CC62009		0.12	<0.001	1.0	2.24	19	<10	250	0.5	<2	0.07	0.9	6	35	14	3.27
CC62010		0.12	0.004	3.5	2.55	30	<10	490	0.7	<2	0.07	1.6	11	44	42	3.21
CC62011		0.10	0.003	1.3	2.39	41	<10	580	0.6	<2	0.16	5.9	12	45	93	3.38
CC62012		0.14	0.002	5.4	2.47	22	<10	300	0.6	<2	0.08	1.0	9	45	33	3.34
CC62013		0.12	0.001	1.2	2.24	17	<10	260	0.5	<2	0.10	1.2	6	36	26	3.08
CC62014		0.08	0.002	1.6	2.30	28	<10	210	0.7	<2	0.09	0.7	6	38	51	3.08
CC62015		0.18	0.002	1.0	1.73	12	<10	170	0.5	2	0.19	0.9	8	43	66	2.56
CC62016		0.12	0.004	2.1	2.28	37	<10	310	0.7	<2	0.13	0.9	9	48	147	3.14
CC62017		0.12	0.003	0.4	2.12	25	<10	440	0.8	<2	0.13	0.5	12	37	79	3.18
CC62018		0.12	0.004	3.6	3.05	28	<10	340	0.6	<2	0.06	0.8	6	49	49	3.25
CC62019		0.12	0.004	0.6	1.41	25	<10	130	<0.5	<2	0.10	<0.5	6	34	14	3.72
CC62020		0.18	0.002	0.4	1.63	21	<10	220	<0.5	<2	0.12	<0.5	5	34	50	2.65
CC62021		0.14	0.003	6.5	2.37	29	<10	260	0.6	<2	0.10	0.8	10	50	95	2.99
CC62022		0.16	0.003	1.2	1.33	33	<10	290	<0.5	<2	0.09	0.8	4	42	97	2.55
CC62023		0.30	<0.001	<0.2	0.07	502	<10	50	<0.5	<2	0.39	24.6	<1	<1	<1	>50
CC62024		0.18	0.081	3.3	0.53	208	<10	170	<0.5	3	9.60	1.4	5	11	90	2.29
CC62025		0.10	0.019	1.2	0.57	48	<10	310	<0.5	2	6.85	1.6	5	10	40	1.36
CC62026		0.20	0.002	0.7	0.65	11	<10	150	0.6	<2	9.08	1.6	8	12	19	2.12
CC62027		0.10	0.004	0.5	1.07	12	<10	160	0.6	<2	1.05	0.7	10	20	14	2.75
CC62028		0.14	<0.001	1.6	0.72	26	<10	1220	<0.5	<2	12.30	1.9	14	20	35	2.86
CC62029		0.20	<0.001	1.3	0.21	25	<10	590	<0.5	4	20.7	1.1	5	4	10	1.51
CC62030		0.12	<0.001	0.4	0.19	18	<10	40	<0.5	<2	19.3	<0.5	5	4	11	1.41
CC62031		0.14	0.003	<0.2	2.72	41	<10	310	<0.5	<2	1.11	<0.5	46	164	73	7.68
CC62032		0.14	0.001	0.4	0.34	9	<10	1140	<0.5	<2	3.17	1.6	4	7	11	1.50
CC62033		0.18	0.002	1.4	0.44	12	<10	230	<0.5	<2	14.5	7.8	3	6	12	2.05
CC62034		0.14	0.004	0.4	1.26	29	<10	190	0.5	2	3.89	1.0	8	20	17	2.72
CC62035		0.24	<0.001	0.2	0.11	4	<10	30	<0.5	<2	>25.0	<0.5	1	1	3	0.26
CC62036		0.18	<0.001	0.2	0.28	8	<10	20	<0.5	<2	22.7	<0.5	4	5	7	1.83
CC62037		0.20	<0.001	0.3	0.23	5	<10	30	<0.5	<2	>25.0	<0.5	2	3	5	0.44
CC62038		0.16	0.002	1.1	0.52	14	<10	60	<0.5	<2	16.0	1.0	8	9	20	2.54
CC62039		0.14	<0.001	0.5	0.82	15	<10	100	0.5	<2	9.25	0.9	10	13	21	2.79
CC62040		0.18	0.001	1.3	0.44	32	<10	180	<0.5	2	11.50	1.8	15	15	28	4.07

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62001		10	<1	0.04	10	0.14	187	20	0.01	10	1370	19	0.03	9	2	11
CC62002		10	<1	0.04	10	0.26	274	41	0.01	89	1200	195	0.03	24	2	12
CC62003		10	<1	0.05	10	0.41	224	8	0.01	23	760	18	0.03	4	3	25
CC62004		10	<1	0.04	10	0.28	336	6	0.01	16	950	16	0.04	2	2	22
CC62005		<10	1	0.02	10	0.07	984	8	0.01	230	1740	9	0.04	6	16	6
CC62006		10	1	0.06	10	0.46	411	11	0.01	43	1860	18	0.05	6	4	32
CC62007		10	1	0.05	10	0.38	212	9	0.01	25	780	14	0.03	3	3	16
CC62008		10	<1	0.04	10	0.16	138	6	0.01	8	1230	15	0.01	2	1	14
CC62009		10	<1	0.04	10	0.38	228	5	0.01	18	560	14	0.02	<2	3	13
CC62010		10	<1	0.06	20	0.34	276	12	0.01	39	880	18	0.04	6	3	37
CC62011		<10	<1	0.07	10	0.52	749	33	0.02	100	1300	38	0.03	4	3	16
CC62012		10	<1	0.05	10	0.41	279	10	0.01	21	700	18	0.03	5	4	15
CC62013		10	1	0.04	10	0.31	201	7	0.01	17	860	15	0.02	<2	3	30
CC62014		<10	1	0.05	10	0.29	192	13	0.02	19	990	13	0.05	5	3	24
CC62015		<10	1	0.06	20	0.51	199	5	0.01	22	960	15	0.03	4	4	21
CC62016		10	2	0.06	20	0.47	315	14	0.01	25	1480	26	0.04	3	4	104
CC62017		<10	1	0.06	20	0.54	443	7	0.02	37	850	15	0.02	3	6	28
CC62018		10	1	0.05	20	0.35	219	18	0.01	22	1000	13	0.02	4	4	53
CC62019		10	<1	0.05	10	0.39	369	9	0.01	16	1180	15	0.03	2	1	15
CC62020		<10	<1	0.05	10	0.42	151	9	0.01	20	1250	14	0.02	3	1	26
CC62021		<10	2	0.05	20	0.48	265	5	0.01	28	740	13	0.03	5	3	24
CC62022		<10	1	0.05	10	0.19	136	19	0.01	22	1250	15	0.05	7	2	50
CC62023		<10	<1	0.01	<10	0.10	7	2	0.02	3	40	68	0.22	<2	<1	48
CC62024		<10	<1	0.04	10	6.35	589	<1	0.02	12	620	68	0.05	18	1	45
CC62025		<10	<1	0.03	10	3.73	671	<1	0.03	12	780	32	0.12	5	1	39
CC62026		<10	<1	0.04	20	5.79	1210	1	0.02	23	730	51	0.08	<2	2	80
CC62027		<10	<1	0.05	10	0.50	871	<1	0.02	23	640	23	0.07	<2	2	18
CC62028		<10	<1	0.17	10	1.87	3030	<1	0.03	41	510	85	0.07	8	3	158
CC62029		<10	<1	0.04	10	1.56	2130	<1	0.02	10	260	188	<0.01	<2	2	209
CC62030		<10	<1	0.03	10	2.29	661	<1	0.02	12	210	43	<0.01	<2	2	223
CC62031		10	1	0.25	10	2.52	1050	<1	0.05	196	630	10	0.33	<2	9	24
CC62032		<10	<1	0.02	10	1.71	1770	2	0.02	18	440	85	0.21	<2	1	26
CC62033		<10	<1	0.02	10	8.57	7690	4	0.03	13	380	202	0.07	<2	1	73
CC62034		<10	<1	0.05	10	2.48	2040	1	0.02	22	630	37	0.08	<2	2	18
CC62035		<10	<1	0.01	<10	0.23	209	<1	0.02	3	140	4	<0.01	<2	<1	142
CC62036		<10	<1	0.08	10	0.97	265	<1	0.02	16	190	3	<0.01	<2	2	306
CC62037		<10	<1	0.02	<10	0.54	125	2	0.02	5	210	7	<0.01	<2	1	195
CC62038		<10	<1	0.05	10	1.44	427	1	0.02	28	370	60	<0.01	2	2	172
CC62039		<10	<1	0.05	20	0.46	850	2	0.02	28	810	56	0.07	3	1	105
CC62040		<10	<1	0.02	10	6.91	9890	<1	0.02	48	680	115	0.19	4	2	102

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC62001		<20	0.05	<10	<10	185	<10	56	
CC62002		<20	0.03	<10	<10	1140	<10	287	
CC62003		<20	0.04	<10	<10	134	<10	85	
CC62004		<20	0.03	<10	10	140	<10	112	
CC62005		<20	0.01	<10	<10	68	<10	74	
CC62006		<20	0.04	<10	10	208	<10	235	
CC62007		<20	0.03	<10	<10	114	<10	69	
CC62008		<20	0.05	<10	<10	175	<10	41	
CC62009		<20	0.04	<10	<10	122	<10	84	
CC62010		<20	0.03	<10	<10	208	<10	158	
CC62011		<20	0.05	<10	<10	234	<10	1295	
CC62012		<20	0.05	<10	<10	139	<10	116	
CC62013		<20	0.04	<10	<10	132	<10	89	
CC62014		<20	0.03	<10	10	163	<10	81	
CC62015		<20	0.06	<10	10	130	<10	135	
CC62016		<20	0.04	<10	30	191	<10	108	
CC62017		<20	0.04	<10	<10	116	<10	98	
CC62018		<20	0.04	<10	<10	468	<10	118	
CC62019		<20	0.03	<10	<10	122	<10	67	
CC62020		<20	0.03	<10	<10	103	<10	71	
CC62021		<20	0.04	<10	<10	156	<10	97	
CC62022		<20	0.03	<10	10	254	<10	79	
CC62023		<20	<0.01	<10	20	7	40	>10000	1.195
CC62024		<20	0.01	<10	<10	22	<10	269	
CC62025		<20	0.01	<10	<10	17	<10	202	
CC62026		<20	0.01	<10	<10	20	<10	349	
CC62027		<20	0.03	<10	<10	36	<10	201	
CC62028		<20	0.06	<10	<10	15	<10	588	
CC62029		<20	<0.01	<10	<10	3	<10	359	
CC62030		<20	<0.01	<10	<10	3	<10	141	
CC62031		<20	0.11	<10	<10	70	<10	138	
CC62032		<20	0.01	<10	<10	12	<10	293	
CC62033		<20	0.01	<10	<10	14	<10	1930	
CC62034		<20	0.02	<10	<10	42	<10	286	
CC62035		<20	<0.01	<10	<10	1	<10	51	
CC62036		<20	0.01	<10	<10	3	<10	23	
CC62037		<20	0.01	<10	<10	3	<10	61	
CC62038		<20	0.01	<10	<10	16	<10	448	
CC62039		<20	0.01	<10	<10	21	<10	279	
CC62040		<20	0.01	<10	<10	14	<10	593	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62041		0.14	0.002	1.0	0.24	13	<10	50	<0.5	<2	11.05	1.1	11	5	11	3.84
CC62044		0.20	0.001	1.5	1.31	32	<10	140	<0.5	<2	0.08	0.8	2	34	68	3.10
CC62045		0.24	0.001	1.2	0.77	53	<10	100	<0.5	<2	0.06	1.1	2	18	61	1.90
CC62046		0.18	<0.001	0.4	0.73	61	<10	130	<0.5	<2	0.06	1.0	2	19	54	1.87
CC62047		0.12	<0.001	1.3	0.59	53	<10	220	<0.5	<2	0.76	26.3	6	13	166	2.05
CC62048		0.22	0.015	0.6	0.51	76	<10	110	<0.5	<2	0.04	3.5	7	17	198	3.42
CC62049		0.22	0.006	1.2	0.59	75	<10	160	<0.5	<2	0.04	3.3	4	16	110	2.50
CC62050		0.20	0.002	0.3	0.55	50	<10	120	<0.5	<2	0.05	1.2	2	16	40	1.78
CC62051		0.28	0.003	0.4	0.96	34	<10	160	<0.5	<2	0.07	1.0	4	19	53	1.71
CC62052		0.24	0.002	0.9	1.21	18	<10	180	<0.5	<2	0.07	<0.5	3	28	53	1.90
CC62053		0.18	0.001	0.4	1.18	28	<10	200	<0.5	<2	0.09	1.3	4	32	64	2.47
CC62054		0.24	0.001	2.2	1.97	24	<10	460	<0.5	<2	0.08	2.2	6	48	24	3.10
CC62055		0.24	0.001	1.1	2.69	158	<10	750	1.6	<2	0.40	15.5	6	64	1250	8.19
CC62056		0.26	0.002	0.5	0.99	36	<10	270	<0.5	<2	0.03	0.7	3	24	39	2.17
CC62057		0.22	0.004	0.7	0.61	30	<10	190	<0.5	<2	0.06	1.8	2	15	111	1.63
CC62058		0.16	<0.001	0.5	0.83	23	<10	140	<0.5	<2	0.05	<0.5	1	22	24	1.57
CC62059		0.16	0.002	0.6	1.79	60	<10	160	0.6	<2	0.10	1.1	7	34	83	3.17
CC62060		0.16	0.002	0.6	1.25	18	<10	170	<0.5	<2	0.08	0.9	3	25	46	1.94
CC62061		0.22	0.023	1.8	1.41	55	<10	190	0.5	<2	0.10	2.2	5	30	102	2.88
CC62062		0.18	0.022	1.6	1.16	38	<10	200	<0.5	<2	0.10	5.4	5	19	85	2.73
CC62063		0.20	0.032	3.6	1.34	37	<10	90	<0.5	<2	0.06	2.5	5	22	27	3.58
CC62064		0.24	0.029	1.5	0.89	53	<10	210	<0.5	<2	0.05	3.8	5	20	80	3.39
CC62065		0.24	0.022	0.8	0.62	81	<10	70	0.5	<2	0.02	2.8	8	20	156	4.47
CC62066		0.28	0.018	1.6	1.26	68	<10	230	0.6	<2	0.18	11.7	9	28	70	3.25
CC62067		0.26	0.035	1.1	0.73	101	<10	110	0.5	4	0.08	7.2	13	18	61	4.77
CC62068		0.24	0.006	1.2	1.61	90	<10	90	0.5	<2	0.05	1.4	11	29	31	5.91
CC62069		0.18	0.008	0.3	1.47	26	<10	190	0.5	<2	0.39	1.3	8	24	36	3.12
CC62070		0.14	0.003	0.4	0.53	37	<10	180	<0.5	<2	0.04	1.7	3	15	45	1.45
CC62071		0.24	0.003	1.0	0.72	38	<10	300	<0.5	<2	0.15	2.1	5	24	100	1.81
CC62072		0.22	0.002	0.4	0.77	35	<10	170	<0.5	<2	0.04	<0.5	2	23	24	2.00
CC62073		0.16	0.002	0.5	1.16	36	<10	310	<0.5	<2	0.07	<0.5	3	29	25	2.24
CC62074		0.20	0.005	0.6	1.10	54	<10	720	0.5	2	0.17	2.6	5	42	86	2.33
CC62075		0.20	0.005	1.1	1.00	47	<10	340	<0.5	<2	0.12	1.6	4	36	68	2.13
CC62076		0.18	0.045	2.2	1.37	85	<10	300	0.6	<2	0.63	8.5	11	24	39	4.51
CC62077		0.24	0.074	4.5	0.86	513	<10	120	<0.5	72	0.06	3.6	14	18	74	5.16
CC62078		0.28	0.017	1.4	1.23	168	<10	340	0.7	4	0.11	10.6	18	24	101	4.15
CC62079		0.22	0.019	1.1	0.60	48	<10	140	<0.5	4	0.04	2.5	4	17	82	2.19
CC62080		0.22	0.017	1.1	0.46	200	<10	80	<0.5	2	0.04	5.6	7	13	55	2.60
CC62081		0.16	0.019	2.1	0.75	103	<10	120	<0.5	5	0.04	2.6	5	21	54	3.01
CC62082		0.08	<0.001	0.3	1.11	15	<10	190	0.6	<2	3.90	0.9	8	17	18	2.29

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62041		<10	<1	0.05	10	0.23	524	1	0.01	28	2350	65	0.26	<2	1	126
CC62044		10	1	0.04	10	0.12	87	31	0.01	13	700	18	0.01	5	2	27
CC62045		<10	<1	0.03	10	0.07	82	35	0.01	22	950	13	0.01	6	1	81
CC62046		<10	<1	0.04	10	0.09	82	28	0.01	20	1320	14	0.02	6	1	118
CC62047		<10	1	0.05	20	0.34	404	34	0.01	57	1230	51	0.06	17	2	150
CC62048		<10	<1	0.04	20	0.07	85	24	0.01	61	1020	83	0.02	34	1	77
CC62049		<10	<1	0.05	20	0.08	55	39	0.01	58	1040	49	0.03	28	1	83
CC62050		<10	<1	0.03	20	0.03	56	36	0.01	24	780	30	0.01	8	<1	49
CC62051		<10	1	0.09	20	0.19	161	25	0.01	19	620	48	0.02	3	2	50
CC62052		<10	<1	0.07	10	0.20	77	12	0.02	16	880	16	0.03	3	1	40
CC62053		10	<1	0.09	20	0.24	145	18	0.02	18	690	13	0.01	3	2	41
CC62054		10	1	0.07	10	0.28	212	17	0.01	20	920	30	0.01	5	3	28
CC62055		<10	2	0.06	20	0.06	132	145	0.01	836	5320	12	0.02	58	3	88
CC62056		<10	<1	0.04	10	0.11	129	17	0.01	31	450	39	0.01	8	1	24
CC62057		<10	1	0.09	20	0.08	118	101	0.01	31	780	23	0.04	12	2	33
CC62058		10	<1	0.05	20	0.07	55	15	0.01	10	530	21	0.01	2	1	43
CC62059		<10	<1	0.07	20	0.32	326	17	0.02	33	1240	18	0.02	5	3	75
CC62060		10	<1	0.06	20	0.26	109	11	0.01	16	570	13	0.01	<2	1	34
CC62061		<10	1	0.08	20	0.21	109	31	0.01	48	910	617	0.01	49	3	67
CC62062		<10	<1	0.10	20	0.09	103	20	0.01	41	830	871	0.01	35	1	22
CC62063		10	1	0.07	20	0.19	162	16	0.01	30	590	611	<0.01	123	2	20
CC62064		<10	<1	0.12	20	0.15	153	22	0.01	51	990	362	0.09	80	3	94
CC62065		<10	<1	0.10	20	0.05	92	43	0.01	70	780	202	0.01	97	2	25
CC62066		<10	<1	0.07	20	0.36	429	15	0.01	74	770	318	0.01	27	4	37
CC62067		<10	<1	0.10	20	0.10	498	16	0.01	114	930	802	0.02	166	2	23
CC62068		<10	<1	0.07	20	0.16	507	6	0.01	62	970	120	0.02	29	2	10
CC62069		<10	<1	0.08	20	0.40	295	5	0.02	34	630	64	<0.01	10	3	22
CC62070		<10	<1	0.06	10	0.03	69	25	0.02	31	490	25	<0.01	6	<1	14
CC62071		<10	1	0.08	20	0.18	193	29	0.01	38	1240	38	0.02	12	2	81
CC62072		10	<1	0.05	20	0.08	83	15	0.01	19	900	50	<0.01	5	1	49
CC62073		<10	1	0.09	20	0.17	111	20	0.02	15	920	28	0.02	5	1	127
CC62074		<10	1	0.12	20	0.24	189	24	0.02	47	1350	54	0.02	12	2	77
CC62075		<10	<1	0.08	20	0.19	136	44	<0.01	41	1130	192	0.03	18	2	56
CC62076		<10	<1	0.08	10	0.31	1260	9	0.01	79	1180	745	0.05	64	5	33
CC62077		<10	<1	0.07	10	0.11	318	15	0.01	110	760	274	0.02	133	4	21
CC62078		<10	<1	0.07	20	0.16	490	16	<0.01	210	660	120	0.03	30	5	45
CC62079		<10	<1	0.07	20	0.07	93	27	<0.01	45	750	219	0.03	47	1	44
CC62080		<10	<1	0.05	20	0.10	90	65	<0.01	176	780	140	0.01	26	2	45
CC62081		<10	<1	0.07	10	0.13	122	32	<0.01	67	710	223	0.03	62	1	31
CC62082		<10	<1	0.09	10	1.76	620	3	0.01	21	840	31	0.10	3	2	30

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Project: RAU

Finalized Date: 29-AUG-2009
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CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC62041		<20	<0.01	<10	<10	4	<10	323	
CC62044		<20	0.04	<10	<10	231	<10	50	
CC62045		<20	0.02	<10	10	165	<10	89	
CC62046		<20	0.02	<10	<10	163	<10	78	
CC62047		<20	0.01	<10	10	89	<10	493	
CC62048		<20	0.01	<10	<10	48	<10	262	
CC62049		<20	0.01	<10	<10	87	<10	245	
CC62050		<20	0.02	<10	<10	135	<10	100	
CC62051		<20	0.03	<10	<10	91	<10	95	
CC62052		<20	0.02	<10	<10	122	<10	56	
CC62053		<20	0.05	<10	<10	160	<10	67	
CC62054		<20	0.04	<10	<10	575	<10	237	
CC62055		<20	0.01	<10	90	556	<10	2990	
CC62056		<20	0.02	<10	<10	274	<10	162	
CC62057		<20	0.02	<10	<10	132	<10	121	
CC62058		<20	0.04	<10	<10	182	<10	49	
CC62059		<20	0.04	<10	<10	140	<10	156	
CC62060		<20	0.03	<10	<10	108	<10	60	
CC62061		<20	0.03	<10	<10	131	<10	276	
CC62062		<20	0.01	<10	<10	65	<10	411	
CC62063		<20	0.03	<10	<10	68	<10	201	
CC62064		<20	0.02	<10	<10	41	<10	368	
CC62065		<20	0.01	<10	<10	29	<10	496	
CC62066		<20	0.02	<10	<10	79	<10	427	
CC62067		<20	0.01	<10	<10	44	<10	825	
CC62068		<20	0.03	<10	<10	57	<10	404	
CC62069		<20	0.03	<10	<10	48	<10	158	
CC62070		<20	0.01	<10	<10	46	<10	164	
CC62071		<20	0.02	<10	10	183	<10	180	
CC62072		<20	0.04	<10	<10	243	<10	98	
CC62073		<20	0.03	<10	10	242	<10	71	
CC62074		<20	0.02	<10	<10	312	<10	219	
CC62075		<20	0.02	<10	<10	218	<10	228	
CC62076		<20	0.02	<10	<10	61	<10	956	
CC62077		<20	0.02	<10	<10	48	<10	644	
CC62078		<20	0.01	<10	<10	116	<10	1240	
CC62079		<20	0.01	<10	<10	105	<10	276	
CC62080		<20	0.01	<10	<10	48	<10	587	
CC62081		<20	0.02	<10	<10	115	<10	354	
CC62082		<20	0.02	<10	<10	34	<10	218	

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

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC62083		0.06	<0.001	0.4	0.71	8	<10	140	<0.5	<2	5.16	3.5	5	8	16	1.30
CC62084		0.14	0.001	0.6	0.97	14	<10	190	0.6	<2	3.55	1.4	12	14	23	3.45
CC62085		0.14	0.002	0.6	1.77	17	<10	230	0.8	<2	2.26	1.6	11	27	18	3.34
CC62086		0.08	NSS	0.9	1.01	13	<10	350	<0.5	<2	3.68	1.3	6	12	19	1.84
CC62087		0.12	0.005	0.9	1.10	19	<10	350	0.5	<2	3.70	3.1	18	41	29	4.21
CC62088		0.08	<0.001	0.2	2.79	12	<10	410	<0.5	<2	1.76	2.2	36	150	60	6.05
CC62089		0.16	0.001	1.1	1.02	19	<10	250	0.5	<2	5.38	5.2	19	21	26	4.26
CC62090		0.06	<0.001	0.5	0.70	15	<10	230	<0.5	<2	5.05	2.5	10	25	17	2.70
CC62091		0.10	0.002	0.6	2.11	12	<10	310	<0.5	<2	1.77	1.2	39	109	67	5.88
CC62092		0.08	0.002	0.8	1.25	13	<10	460	0.5	<2	2.20	0.9	19	28	28	3.63
CC62093		0.18	0.002	0.5	1.14	18	<10	360	0.5	<2	4.36	1.6	16	26	24	3.66
CC62094		0.10	0.005	0.7	1.38	15	<10	350	0.6	<2	2.15	1.1	13	29	22	3.43
CC62095		0.16	0.004	0.6	1.39	15	<10	160	0.8	<2	6.50	1.7	9	27	15	3.02
CC62096		0.16	0.003	0.7	1.36	15	<10	210	0.6	<2	2.62	1.0	8	26	18	3.04
CC62097		0.16	0.005	0.6	0.66	15	<10	140	<0.5	<2	11.00	1.9	6	13	11	1.82
CC62098		0.28	0.003	1.0	0.58	34	<10	340	<0.5	<2	10.25	3.3	19	20	28	3.78
CC62099		0.24	0.003	0.5	0.96	18	<10	250	<0.5	<2	4.40	0.8	18	46	35	4.35
CC62100		0.18	0.005	0.4	0.81	12	<10	180	<0.5	<2	3.68	0.6	9	23	22	3.06
CC62101		0.08	0.008	0.7	1.19	12	<10	480	0.6	<2	2.04	0.8	8	23	24	2.49
CC62102		0.24	0.006	0.8	1.32	22	<10	160	0.6	<2	1.44	0.8	12	32	25	3.68
CC62103		0.18	0.018	0.8	0.23	43	<10	90	<0.5	2	15.3	1.4	4	7	12	1.14
CC62104		0.18	0.002	0.6	0.82	17	<10	160	<0.5	<2	10.55	0.7	13	23	18	3.54
CC62105		0.14	0.011	0.4	1.60	5	<10	180	<0.5	<2	2.25	1.1	25	112	37	3.66
CC62106		0.14	0.004	1.2	1.12	22	<10	290	0.6	<2	6.80	2.5	10	22	31	3.00
CC62107		0.20	0.029	0.4	1.13	16	<10	240	0.5	<2	4.47	0.7	10	21	21	2.62
CC62108		0.30	0.007	0.5	0.87	25	<10	200	<0.5	<2	11.20	1.1	7	16	19	2.10
CC62109		0.26	0.003	0.7	0.90	20	<10	230	<0.5	<2	7.24	2.2	7	17	19	2.12
CC62110		0.26	0.003	0.6	0.53	16	<10	240	<0.5	<2	15.0	1.2	8	9	20	2.05
CC62111		0.20	0.003	1.1	0.35	19	<10	130	<0.5	<2	17.7	1.0	6	4	14	1.56
CC62112		0.22	0.005	0.7	0.86	14	<10	210	0.5	<2	7.41	1.6	9	16	18	2.09
CC62113		0.22	0.005	0.5	1.30	17	<10	160	0.7	<2	3.06	0.6	10	23	22	2.92
CC62114		0.12	0.007	0.4	1.39	17	<10	300	0.7	<2	1.37	0.8	9	23	17	2.74
CC62115		0.16	0.007	0.3	1.46	11	<10	160	0.7	<2	2.47	1.2	11	24	13	2.83
CC62116		0.06	0.022	0.4	0.68	6	<10	210	<0.5	<2	3.33	1.6	5	10	17	1.20
CC62117		0.16	0.010	0.8	1.13	19	<10	170	0.6	<2	2.68	0.8	8	22	15	2.82
CC62118		0.22	0.004	0.5	0.94	20	<10	150	0.6	<2	5.87	1.0	10	17	19	2.43
CC62119		0.12	0.002	0.6	1.52	16	<10	1450	0.9	<2	2.78	2.2	10	24	14	3.15
CC62120		0.22	0.001	0.6	0.54	17	<10	580	0.5	<2	9.44	1.0	10	8	17	2.44
CC62121		0.24	0.002	0.5	0.73	18	<10	140	<0.5	<2	9.06	1.0	8	13	18	2.13
CC62122		0.24	0.008	0.6	0.41	30	<10	100	<0.5	<2	18.8	1.1	9	15	22	1.95

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 29-AUG-2009
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CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62083		<10	1	0.05	10	1.56	791	2	0.02	10	1310	21	0.22	3	1	38
CC62084		<10	<1	0.13	20	1.62	1685	1	0.01	32	850	46	0.08	<2	2	30
CC62085		<10	<1	0.09	20	1.29	1930	1	0.01	28	420	48	0.04	<2	5	26
CC62086		<10	1	0.05	10	0.27	987	2	0.01	15	660	31	0.14	<2	1	47
CC62087		<10	<1	0.15	20	2.03	2940	2	0.01	64	850	110	0.08	3	3	30
CC62088		10	<1	0.25	10	2.91	854	<1	0.01	158	720	83	0.09	<2	9	18
CC62089		<10	<1	0.11	10	2.89	3900	1	0.01	72	770	217	0.06	2	3	36
CC62090		<10	<1	0.07	10	1.51	1025	1	0.02	33	910	51	0.16	<2	2	28
CC62091		10	<1	0.49	10	2.13	919	1	0.01	148	920	75	0.06	3	8	20
CC62092		<10	<1	0.09	10	0.89	598	1	0.01	67	940	60	0.11	<2	4	20
CC62093		<10	<1	0.09	10	2.52	797	2	0.01	57	960	129	0.08	2	3	26
CC62094		<10	<1	0.11	20	1.10	718	1	0.01	44	1110	83	0.08	<2	3	23
CC62095		<10	<1	0.07	20	4.06	926	1	0.01	28	900	67	0.08	3	2	33
CC62096		10	<1	0.08	10	1.45	535	1	0.01	25	920	78	0.07	3	3	23
CC62097		<10	<1	0.07	10	6.53	1320	2	0.01	17	870	115	0.07	<2	1	52
CC62098		<10	1	0.16	10	5.52	1925	1	0.01	75	1000	264	0.10	5	3	88
CC62099		<10	<1	0.25	20	2.65	536	1	0.01	79	1230	50	0.13	4	3	54
CC62100		<10	<1	0.15	10	1.82	372	1	0.01	28	1190	38	0.07	<2	2	44
CC62101		<10	1	0.09	10	0.55	555	1	0.01	26	970	55	0.11	2	2	28
CC62102		<10	<1	0.08	20	0.99	723	1	0.01	40	800	64	0.05	4	3	19
CC62103		<10	<1	0.03	10	9.93	608	2	0.01	13	580	160	<0.01	<2	1	69
CC62104		<10	<1	0.18	10	2.19	500	<1	0.01	41	1200	76	0.07	5	3	349
CC62105		<10	<1	0.21	20	1.22	610	<1	0.01	136	1220	52	0.12	3	4	31
CC62106		<10	1	0.11	10	1.40	1100	2	0.01	35	840	303	0.06	4	3	50
CC62107		<10	<1	0.06	10	1.24	698	1	0.01	26	710	36	0.05	2	2	32
CC62108		<10	<1	0.05	10	1.93	729	1	0.01	20	640	88	0.04	<2	2	65
CC62109		<10	<1	0.07	10	2.87	672	1	0.01	20	730	135	0.04	<2	2	52
CC62110		<10	<1	0.09	10	2.44	496	1	0.01	23	440	131	0.04	5	2	152
CC62111		<10	1	0.09	10	2.06	524	1	<0.01	14	340	61	<0.01	2	2	178
CC62112		<10	<1	0.08	10	4.75	766	2	0.01	23	730	80	0.06	5	2	44
CC62113		<10	<1	0.08	20	2.00	516	2	0.01	30	640	38	0.04	<2	3	24
CC62114		10	<1	0.08	10	0.66	798	2	0.01	21	750	36	0.10	<2	2	16
CC62115		<10	<1	0.07	10	1.43	734	1	0.01	20	770	25	0.07	<2	2	21
CC62116		<10	<1	0.04	<10	0.57	779	1	0.02	10	1160	14	0.24	2	1	31
CC62117		<10	<1	0.07	10	1.40	681	2	0.01	22	650	33	0.06	2	2	20
CC62118		<10	<1	0.08	10	3.44	661	3	0.01	25	790	47	0.07	2	2	37
CC62119		<10	<1	0.08	20	1.57	1320	2	0.01	23	610	66	0.09	7	3	28
CC62120		<10	<1	0.11	10	3.15	1450	1	0.01	25	590	42	0.06	2	2	70
CC62121		<10	<1	0.07	10	2.28	516	1	0.01	20	610	86	0.02	4	2	83
CC62122		<10	<1	0.06	10	2.16	481	1	0.01	32	500	99	<0.01	2	2	123

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CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC62083		<20	0.01	<10	<10	16	<10	336	
CC62084		<20	0.01	<10	<10	26	<10	284	
CC62085		<20	0.02	<10	<10	52	<10	321	
CC62086		<20	0.01	<10	<10	21	<10	355	
CC62087		<20	0.03	<10	<10	31	<10	847	
CC62088		<20	0.11	<10	<10	77	<10	687	
CC62089		<20	0.02	<10	<10	30	<10	1375	
CC62090		<20	0.02	<10	<10	19	<10	457	
CC62091		<20	0.16	<10	<10	59	<10	409	
CC62092		<20	0.02	<10	<10	41	<10	332	
CC62093		<20	0.02	<10	<10	40	<10	431	
CC62094		<20	0.02	<10	<10	46	<10	316	
CC62095		<20	0.02	<10	<10	47	<10	276	
CC62096		<20	0.02	<10	<10	42	<10	325	
CC62097		<20	0.01	<10	<10	27	<10	428	
CC62098		<20	0.01	<10	<10	20	<10	1060	
CC62099		<20	0.05	<10	<10	32	<10	234	
CC62100		<20	0.02	<10	<10	26	<10	186	
CC62101		<20	0.02	<10	<10	34	<10	264	
CC62102		<20	0.02	<10	<10	46	<10	235	
CC62103		<20	0.01	<10	<10	20	<10	366	
CC62104		<20	0.02	<10	<10	18	<10	283	
CC62105		<20	0.08	<10	<10	44	<10	370	
CC62106		<20	0.02	<10	<10	33	<10	1180	
CC62107		<20	0.02	<10	<10	36	<10	189	
CC62108		<20	0.02	<10	<10	28	<10	394	
CC62109		<20	0.02	<10	<10	29	<10	766	
CC62110		<20	0.01	<10	<10	13	<10	621	
CC62111		<20	<0.01	<10	<10	6	<10	301	
CC62112		<20	0.01	<10	<10	26	<10	408	
CC62113		<20	0.02	<10	<10	42	<10	175	
CC62114		<20	0.02	<10	<10	45	<10	203	
CC62115		<20	0.02	<10	<10	48	<10	209	
CC62116		<20	0.01	<10	<10	18	<10	160	
CC62117		<20	0.02	<10	<10	44	<10	203	
CC62118		<20	0.02	<10	<10	32	<10	242	
CC62119		<20	0.02	<10	<10	47	<10	398	
CC62120		<20	0.01	<10	<10	12	<10	268	
CC62121		<20	0.02	<10	<10	25	<10	403	
CC62122		<20	0.01	<10	<10	15	<10	365	

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62123		0.24	0.005	1.0	1.03	27	<10	290	0.5	<2	13.95	2.6	11	28	41	2.42
CC62124		0.18	0.002	0.5	0.92	12	<10	170	<0.5	<2	14.9	0.9	7	15	17	1.85
CC62125		0.22	0.002	0.5	0.28	14	<10	70	<0.5	<2	>25.0	<0.5	2	4	5	0.55
CC62126		0.12	0.001	0.7	0.96	11	<10	350	0.5	<2	11.75	1.4	7	14	17	2.12
CC62127		0.28	0.002	0.7	0.44	19	<10	120	<0.5	<2	17.3	1.1	7	9	12	2.97
CC62128		0.16	<0.001	0.3	2.28	7	<10	170	0.5	<2	5.15	<0.5	57	188	55	7.15
CC62129		0.24	0.001	0.5	0.27	11	<10	490	<0.5	<2	16.7	0.8	11	9	12	2.64
CC62130		0.20	0.002	1.0	0.60	20	<10	450	<0.5	<2	12.55	2.6	18	11	19	3.75
CC62131		0.12	0.005	1.1	0.60	29	<10	220	<0.5	<2	9.70	2.2	18	16	30	3.92
CC62132		0.24	0.006	6.0	0.40	20	<10	2310	<0.5	<2	13.3	11.1	6	8	35	1.84
CC62133		0.28	0.142	1.4	0.10	110	<10	90	<0.5	25	16.6	1.7	4	5	14	1.48
CC62134		0.26	0.019	1.3	0.09	41	<10	100	<0.5	<2	17.5	2.2	2	4	7	0.76
CC62135		0.14	0.010	1.4	0.60	64	<10	240	<0.5	7	8.54	1.5	15	16	42	3.80
CC62136		0.14	0.003	0.7	1.42	26	<10	150	0.7	<2	4.27	1.0	9	25	17	3.20
CC62137		0.16	0.006	0.7	1.23	22	<10	160	0.6	<2	2.15	1.2	10	23	19	3.20
CC62138		0.10	NSS	0.5	0.68	9	<10	340	<0.5	<2	4.15	1.0	5	10	19	1.21
CC62139		0.16	0.002	0.9	0.93	14	<10	260	0.5	<2	5.70	1.7	9	19	15	2.71
CC62140		0.16	0.009	0.5	0.98	11	<10	230	0.6	<2	1.70	0.5	10	29	24	3.50
CC62141		0.18	0.002	1.3	0.70	15	<10	860	<0.5	<2	11.30	5.0	6	18	13	2.24
CC62142		0.22	0.003	0.7	0.77	20	<10	120	<0.5	<2	9.54	1.2	6	16	20	2.09
CC62143		0.10	0.003	0.7	0.83	13	<10	420	0.5	<2	4.18	2.7	13	21	18	3.07
CC62144		0.18	0.001	0.5	0.55	17	<10	420	<0.5	<2	14.3	0.6	11	10	13	3.13
CC62145		0.22	0.003	0.7	0.61	19	<10	180	0.5	<2	12.20	1.4	5	10	10	1.36
CC62146		0.22	0.004	0.3	2.21	10	<10	220	<0.5	<2	5.98	0.7	28	111	52	4.76
CC62147		0.22	0.002	0.6	0.56	9	<10	210	<0.5	<2	4.80	1.0	53	21	77	6.67
CC62148		0.18	0.003	0.4	3.00	7	<10	380	<0.5	<2	1.57	0.5	33	147	55	5.51
CC62149		0.26	0.001	0.4	0.43	15	<10	110	<0.5	<2	10.85	0.5	24	19	34	4.82
CC62150		0.10	0.007	0.3	0.58	6	<10	170	<0.5	<2	1.83	0.7	27	14	51	4.12
CC62151		0.18	0.001	0.5	0.74	14	<10	120	0.5	<2	8.76	0.9	10	11	19	3.09
CC62152		0.14	0.005	1.0	1.08	22	<10	680	0.6	<2	4.79	3.5	10	18	21	3.22
CC62153		0.22	0.001	<0.2	3.25	7	<10	110	<0.5	<2	5.47	<0.5	31	185	60	5.20
CC62154		0.16	0.003	0.4	1.08	17	<10	170	0.7	<2	5.24	1.0	11	19	17	2.88
CC62155		0.18	0.006	0.6	0.45	16	<10	170	0.6	<2	12.4	1.4	6	9	13	1.77
CC62156		0.12	0.001	0.4	0.84	13	<10	120	0.5	<2	9.53	2.4	7	12	17	1.79
CC62157		0.18	0.004	0.2	1.29	24	<10	130	0.7	<2	2.35	0.5	12	23	49	3.11
CC62158		0.10	0.003	0.6	1.20	16	<10	190	0.6	<2	2.16	1.0	10	19	17	2.59
CC62159		0.22	0.005	0.3	0.72	16	<10	100	<0.5	<2	10.30	0.7	8	13	17	2.34
CC62160		0.18	0.009	0.5	0.65	16	<10	80	0.6	<2	9.67	0.6	10	12	22	2.41
CC62161		0.22	0.002	0.4	0.42	9	<10	60	<0.5	<2	18.4	<0.5	10	6	17	1.88
CC62162		0.26	0.001	<0.2	3.06	6	<10	260	<0.5	<2	5.32	<0.5	34	151	60	5.60

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62123		<10	1	0.11	10	0.71	1185	2	0.01	53	740	367	0.03	6	4	80
CC62124		<10	1	0.07	10	0.40	1015	1	0.02	19	700	91	0.09	5	2	73
CC62125		<10	1	0.02	<10	1.19	391	1	0.01	2	310	24	<0.01	2	1	131
CC62126		<10	<1	0.09	10	1.17	608	1	0.02	20	810	86	0.11	<2	1	75
CC62127		<10	1	0.09	10	1.41	496	1	0.01	25	370	76	0.07	4	3	128
CC62128		10	<1	1.01	20	1.91	1415	<1	0.01	295	1600	15	0.03	<2	8	117
CC62129		<10	<1	0.10	10	5.20	355	<1	0.01	27	670	55	<0.01	3	3	400
CC62130		<10	1	0.20	20	1.25	1290	<1	0.01	45	1210	178	0.07	3	3	317
CC62131		<10	1	0.16	20	3.98	928	1	0.01	50	1750	231	0.07	2	4	139
CC62132		<10	<1	0.05	10	8.50	2380	2	0.02	17	1160	2360	0.12	9	1	79
CC62133		<10	<1	0.02	<10	10.50	659	1	0.01	15	490	196	<0.01	4	1	65
CC62134		<10	1	0.01	<10	11.25	801	2	0.01	6	450	185	<0.01	<2	1	73
CC62135		<10	<1	0.09	10	5.13	839	1	0.01	47	2400	387	0.07	8	3	59
CC62136		<10	<1	0.09	20	2.46	740	1	0.01	25	1250	65	0.07	3	2	27
CC62137		<10	<1	0.10	10	1.17	594	1	0.01	27	930	56	0.07	3	2	25
CC62138		<10	<1	0.04	<10	0.58	527	<1	0.02	11	1570	22	0.25	2	1	37
CC62139		<10	<1	0.11	20	3.12	631	1	0.02	22	900	117	0.08	3	2	45
CC62140		<10	<1	0.17	20	0.65	315	<1	0.01	37	1320	50	0.10	<2	2	36
CC62141		<10	<1	0.06	10	6.99	2870	1	0.02	21	730	286	0.08	<2	2	81
CC62142		<10	1	0.07	10	5.89	796	1	0.02	19	650	93	0.04	4	2	52
CC62143		<10	<1	0.20	10	1.81	956	<1	0.02	45	1200	114	0.15	<2	2	34
CC62144		<10	1	0.22	20	1.23	498	<1	0.01	26	970	77	0.12	<2	3	544
CC62145		<10	1	0.06	10	7.88	924	1	0.02	14	590	59	0.06	<2	1	58
CC62146		<10	<1	0.65	10	4.36	531	<1	0.01	137	740	30	0.05	2	6	48
CC62147		<10	<1	0.15	10	2.73	741	1	0.02	219	970	65	0.07	<2	7	35
CC62148		10	1	0.12	10	2.91	509	<1	0.02	152	840	52	0.11	<2	7	19
CC62149		<10	<1	0.17	<10	1.46	621	1	0.02	90	570	32	0.22	<2	3	86
CC62150		<10	<1	0.10	10	0.52	487	<1	0.02	75	740	36	0.09	<2	2	15
CC62151		<10	<1	0.18	10	1.54	1120	<1	0.02	28	570	53	0.04	4	3	99
CC62152		<10	1	0.12	10	2.62	3320	2	0.02	35	850	381	0.08	<2	2	37
CC62153		10	<1	0.51	<10	3.58	589	<1	0.02	118	1230	8	0.02	<2	6	81
CC62154		<10	<1	0.10	20	2.78	1170	1	0.02	25	830	51	0.05	<2	2	48
CC62155		<10	<1	0.06	10	7.52	2040	1	0.02	18	690	50	0.08	2	1	67
CC62156		<10	<1	0.08	10	5.77	945	2	0.02	14	1290	30	0.09	<2	1	51
CC62157		<10	<1	0.09	20	1.20	454	3	0.02	38	610	29	0.05	2	2	26
CC62158		10	<1	0.08	10	0.93	673	2	0.03	22	860	62	0.10	2	1	22
CC62159		<10	<1	0.08	10	6.36	380	2	0.02	23	690	19	0.06	<2	1	70
CC62160		<10	<1	0.08	10	6.16	415	3	0.03	27	700	37	0.07	5	2	66
CC62161		<10	<1	0.08	10	1.66	274	<1	0.02	22	290	13	<0.01	4	2	174
CC62162		10	1	0.93	10	3.12	553	<1	0.02	153	820	6	0.03	<2	9	77

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC62123		<20	0.04	<10	<10	37	<10	1635	
CC62124		<20	0.02	<10	<10	24	<10	430	
CC62125		<20	0.01	<10	<10	7	<10	162	
CC62126		<20	0.02	<10	<10	26	<10	596	
CC62127		<20	0.01	<10	<10	11	<10	422	
CC62128		<20	0.28	<10	<10	72	<10	159	
CC62129		<20	0.01	<10	<10	11	<10	233	
CC62130		<20	0.01	<10	<10	14	<10	934	
CC62131		<20	0.01	<10	<10	19	<10	875	
CC62132		<20	0.01	<10	<10	18	<10	3600	
CC62133		<20	<0.01	<10	<10	16	10	438	
CC62134		<20	<0.01	<10	<10	19	<10	452	
CC62135		<20	0.01	<10	<10	25	10	806	
CC62136		<20	0.02	<10	<10	44	<10	293	
CC62137		<20	0.02	<10	<10	38	<10	240	
CC62138		<20	0.01	<10	<10	16	<10	82	
CC62139		<20	0.02	<10	<10	31	<10	497	
CC62140		<20	0.02	<10	<10	29	<10	184	
CC62141		<20	0.01	<10	<10	23	<10	1255	
CC62142		<20	0.02	<10	<10	28	<10	416	
CC62143		<20	0.02	<10	<10	18	<10	593	
CC62144		<20	0.01	<10	<10	11	<10	370	
CC62145		<20	0.01	<10	<10	26	<10	483	
CC62146		<20	0.13	<10	<10	55	<10	265	
CC62147		<20	0.01	<10	<10	26	<10	446	
CC62148		<20	0.08	<10	<10	80	<10	307	
CC62149		<20	0.02	<10	<10	11	<10	212	
CC62150		<20	0.01	<10	<10	14	<10	217	
CC62151		<20	0.01	<10	<10	14	<10	291	
CC62152		<20	0.02	<10	<10	34	<10	845	
CC62153		<20	0.25	<10	<10	80	<10	86	
CC62154		<20	0.02	<10	<10	30	<10	214	
CC62155		<20	0.01	<10	<10	13	<10	274	
CC62156		<20	0.01	<10	<10	20	<10	442	
CC62157		<20	0.02	<10	<10	41	<10	165	
CC62158		<20	0.02	<10	<10	37	<10	235	
CC62159		<20	0.02	<10	<10	24	<10	132	
CC62160		<20	0.01	<10	<10	19	<10	157	
CC62161		<20	0.01	<10	<10	10	<10	57	
CC62162		<20	0.24	<10	<10	78	<10	87	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62163		0.20	<0.001	0.4	0.41	11	<10	30	<0.5	<2	23.4	<0.5	5	6	9	1.30
CC62164		0.20	0.001	0.2	1.50	18	<10	230	0.6	<2	0.87	0.6	9	27	15	3.46
CC62165		0.22	0.001	0.3	0.55	13	<10	80	<0.5	<2	12.00	<0.5	13	8	22	3.02
CC62166		0.16	0.005	0.7	1.45	21	<10	1490	0.8	<2	1.13	2.8	10	24	17	4.22
CC62167		0.12	0.006	0.9	2.05	28	<10	640	0.7	<2	1.77	8.5	19	83	31	4.69
CC62168		0.16	0.002	0.8	1.01	20	<10	200	0.5	<2	3.30	1.5	10	19	19	3.26
CC62169		0.26	0.001	0.2	3.41	6	<10	340	<0.5	<2	8.52	<0.5	35	169	59	5.62
CC62170		0.30	0.002	0.2	0.77	16	<10	460	<0.5	<2	4.98	<0.5	36	50	50	10.30
CC62171		0.24	0.003	0.5	0.52	17	<10	160	<0.5	<2	13.90	2.0	6	13	13	1.59
CC62172		0.20	0.007	3.9	0.52	91	<10	730	0.5	4	13.10	26.3	7	11	30	2.51
CC62173		0.10	0.002	0.6	1.32	19	<10	270	0.7	<2	6.35	3.0	8	20	13	2.43
CC62174		0.18	0.001	0.3	0.42	12	<10	230	<0.5	<2	22.0	1.4	8	7	9	2.22
CC62175		0.16	0.001	0.3	0.46	12	<10	100	<0.5	<2	16.2	<0.5	8	7	10	2.83
CC62176		0.20	0.001	0.5	0.53	14	<10	170	<0.5	<2	14.2	<0.5	18	14	21	4.07
CC62177		0.10	<0.001	0.2	0.96	22	<10	200	0.5	<2	6.35	0.5	17	18	20	4.47
CC62178		0.22	0.002	2.0	0.33	24	<10	700	<0.5	<2	15.0	11.4	15	8	16	4.24
CC62179		0.12	0.002	0.5	1.35	21	<10	200	0.7	<2	3.24	1.8	15	24	15	4.35
CC62180		0.14	0.002	0.8	0.54	20	<10	220	0.5	<2	9.03	2.9	17	16	12	2.79
CC62181		0.18	0.003	0.7	1.08	22	<10	700	0.5	<2	6.38	0.8	13	21	18	3.73
CC62182		0.14	0.002	0.3	0.11	4	<10	30	<0.5	<2	>25.0	<0.5	2	2	2	0.57
CC62183		0.14	0.001	0.2	0.38	3	<10	10	<0.5	<2	>25.0	<0.5	7	6	8	2.17
CC62184		0.24	0.003	0.7	0.27	38	<10	50	<0.5	<2	17.6	1.0	4	4	9	0.94
CC62185		0.20	0.005	0.3	0.69	37	<10	40	<0.5	<2	20.3	<0.5	12	21	17	3.20
CC62186		0.18	0.021	1.5	0.14	34	<10	80	<0.5	<2	17.0	1.3	4	6	13	1.39
CC62187		0.26	0.017	4.2	0.22	221	<10	290	<0.5	6	16.1	2.8	7	7	53	2.86
CC62188		0.16	0.042	3.1	0.49	63	<10	220	<0.5	<2	8.90	2.0	20	15	43	3.74
CC62189		0.20	0.478	3.2	0.54	782	<10	300	<0.5	163	10.40	5.3	16	19	40	7.30
CC62190		0.12	0.072	2.2	0.51	97	<10	240	<0.5	11	9.66	2.2	19	15	38	3.65
CC62191		0.20	0.161	4.7	0.42	709	<10	310	<0.5	266	11.45	7.1	8	13	63	5.64
CC62192		0.14	0.002	0.3	0.14	26	<10	50	<0.5	<2	18.2	0.5	2	4	5	0.48
CC62193		0.12	0.009	0.5	0.82	38	<10	110	<0.5	5	9.97	1.3	6	17	14	1.80
CC62194		0.16	0.020	2.2	0.19	45	<10	150	<0.5	2	17.5	4.2	2	7	7	1.14
CC62195		0.12	0.004	0.9	1.06	38	<10	200	0.6	2	3.87	1.4	11	22	19	2.84
CC62196		0.08	0.001	0.4	0.58	62	<10	140	0.9	<2	2.65	0.6	11	10	15	4.06
CC62197		0.12	0.016	1.3	0.33	38	<10	100	<0.5	<2	10.50	1.5	6	14	12	1.67
CC62198		0.18	0.006	2.8	0.42	68	<10	210	<0.5	2	14.0	7.5	4	10	18	1.86
CC62199		0.20	0.006	0.4	0.20	62	<10	70	<0.5	<2	17.4	0.8	2	7	6	1.10
CC62200		0.12	0.002	0.4	1.00	15	<10	120	0.5	<2	7.41	0.6	7	17	13	1.85
CC62201		0.14	0.004	1.3	1.31	25	<10	610	<0.5	<2	8.48	4.0	50	19	63	4.55
CC62202		0.14	0.001	0.3	0.70	24	<10	170	<0.5	<2	11.05	<0.5	16	15	16	4.60

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CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62163		<10	<1	0.07	<10	0.68	463	<1	0.02	11	220	12	<0.01	<2	2	447
CC62164		<10	<1	0.09	10	0.48	737	1	0.02	23	810	30	0.05	2	2	20
CC62165		<10	<1	0.19	10	1.15	429	<1	0.02	38	470	19	0.05	3	2	120
CC62166		<10	<1	0.07	10	0.40	4000	1	0.02	21	1000	326	0.08	3	2	18
CC62167		10	<1	0.14	20	1.76	2460	1	0.03	72	1200	487	0.13	4	4	41
CC62168		<10	<1	0.08	10	0.92	3710	1	0.02	30	590	83	0.07	2	2	30
CC62169		10	<1	1.25	<10	3.40	436	<1	0.02	134	810	6	0.06	<2	9	96
CC62170		<10	<1	0.18	10	2.99	783	1	0.02	137	770	9	0.25	2	5	28
CC62171		<10	<1	0.05	10	8.64	1025	3	0.03	28	540	170	0.06	<2	1	63
CC62172		<10	1	0.05	10	7.04	6120	3	0.03	52	460	5560	0.07	49	2	70
CC62173		<10	<1	0.06	10	3.74	1995	1	0.02	19	810	178	0.09	2	2	41
CC62174		<10	<1	0.16	10	1.43	528	<1	0.02	20	560	102	<0.01	2	2	1005
CC62175		<10	<1	0.18	10	0.81	260	<1	0.02	21	830	9	0.13	<2	2	665
CC62176		<10	<1	0.25	10	1.64	459	1	0.02	51	1070	41	0.17	<2	3	530
CC62177		<10	<1	0.18	20	2.40	615	1	0.03	45	1020	39	0.13	<2	3	170
CC62178		<10	1	0.09	20	4.77	6880	1	0.02	37	720	441	0.08	5	3	302
CC62179		<10	<1	0.10	20	1.54	1175	1	0.02	33	770	63	0.09	3	3	44
CC62180		<10	<1	0.07	20	4.73	1695	<1	0.02	22	950	143	0.13	<2	1	61
CC62181		<10	<1	0.12	20	1.60	765	1	0.02	36	760	89	0.07	3	3	135
CC62182		<10	1	0.02	<10	0.24	289	<1	0.01	2	280	8	<0.01	3	1	292
CC62183		<10	1	0.12	10	1.01	306	<1	0.01	22	510	6	<0.01	<2	3	1310
CC62184		<10	<1	0.04	10	11.10	562	<1	0.02	24	600	90	<0.01	6	1	78
CC62185		<10	<1	0.14	10	0.76	287	1	0.02	46	1160	13	<0.01	<2	3	248
CC62186		<10	1	0.03	10	11.00	444	1	0.02	20	480	276	<0.01	10	1	69
CC62187		<10	1	0.03	10	10.55	2480	<1	0.02	29	800	1810	<0.01	11	1	64
CC62188		<10	1	0.05	10	5.42	883	<1	0.02	81	1350	284	0.09	4	2	43
CC62189		<10	<1	0.08	20	6.31	2270	<1	0.02	62	1900	900	0.02	14	4	46
CC62190		<10	<1	0.08	10	5.96	1130	1	0.02	81	1330	328	0.08	6	3	42
CC62191		<10	<1	0.05	10	7.20	2920	<1	0.02	37	1000	1140	0.03	13	2	47
CC62192		<10	1	0.01	<10	11.80	682	2	0.03	6	430	39	<0.01	<2	1	76
CC62193		<10	<1	0.05	10	6.38	709	3	0.03	26	870	90	0.08	<2	1	49
CC62194		<10	<1	0.02	<10	11.05	1925	1	0.03	5	190	521	<0.01	2	1	81
CC62195		<10	<1	0.07	20	2.21	1845	3	0.03	33	860	133	0.09	3	2	35
CC62196		<10	<1	0.15	20	1.48	1700	7	0.02	30	1210	48	0.09	<2	1	28
CC62197		<10	1	0.03	10	6.67	1065	3	0.02	16	700	172	0.10	3	1	52
CC62198		<10	1	0.03	10	8.98	3690	8	0.02	22	410	1110	0.06	12	1	91
CC62199		<10	<1	0.02	10	11.35	762	2	0.02	15	280	162	<0.01	<2	1	82
CC62200		<10	1	0.05	10	4.81	487	1	0.03	19	640	20	0.07	<2	1	41
CC62201		<10	1	0.11	10	4.91	1120	<1	0.02	99	4890	367	0.16	3	4	132
CC62202		<10	1	0.23	20	4.66	467	<1	0.02	43	1000	19	0.09	<2	2	142

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
	Analyte	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	20	0.01	10	10	1	10	2	0.001
CC62163		<20	0.01	<10	<10	5	<10	37	
CC62164		<20	0.02	<10	<10	44	<10	192	
CC62165		<20	0.01	<10	<10	9	<10	85	
CC62166		<20	0.02	<10	<10	51	<10	849	
CC62167		<20	0.05	<10	<10	76	<10	2820	
CC62168		<20	0.02	<10	<10	30	<10	409	
CC62169		<20	0.24	<10	<10	76	<10	96	
CC62170		<20	0.04	<10	<10	36	<10	113	
CC62171		<20	0.01	<10	<10	53	<10	676	
CC62172		<20	0.01	<10	<10	28	<10	4060	
CC62173		<20	0.02	<10	<10	51	<10	789	
CC62174		<20	0.01	<10	<10	9	<10	414	
CC62175		<20	0.01	<10	<10	8	<10	70	
CC62176		<20	0.02	<10	<10	12	<10	210	
CC62177		<20	0.02	<10	<10	23	<10	216	
CC62178		<20	0.01	<10	<10	10	<10	3010	
CC62179		<20	0.02	<10	<10	41	<10	490	
CC62180		<20	0.01	<10	<10	22	<10	572	
CC62181		<20	0.02	<10	<10	33	<10	348	
CC62182		<20	<0.01	<10	<10	1	<10	38	
CC62183		<20	<0.01	<10	<10	4	<10	38	
CC62184		<20	<0.01	<10	10	14	<10	372	
CC62185		<20	0.01	<10	<10	14	<10	99	
CC62186		<20	<0.01	<10	<10	11	10	719	
CC62187		<20	0.01	<10	<10	18	60	2020	
CC62188		<20	0.01	<10	<10	22	<10	591	
CC62189		<20	0.01	<10	10	26	60	2280	
CC62190		<20	0.01	<10	<10	26	10	658	
CC62191		<20	0.01	<10	<10	25	30	1820	
CC62192		<20	<0.01	<10	10	41	<10	134	
CC62193		<20	0.02	<10	<10	47	<10	312	
CC62194		<20	0.01	<10	10	13	<10	806	
CC62195		<20	0.02	<10	<10	51	<10	382	
CC62196		<20	0.01	<10	<10	27	<10	128	
CC62197		<20	0.01	<10	<10	27	<10	391	
CC62198		<20	0.01	<10	<10	31	<10	927	
CC62199		<20	0.01	<10	<10	32	<10	404	
CC62200		<20	0.02	<10	<10	40	<10	91	
CC62201		<20	0.01	<10	20	34	<10	1290	
CC62202		<20	0.01	<10	<10	20	<10	93	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC62203		0.08	0.002	0.3	0.78	25	<10	190	<0.5	<2	7.91	0.8	11	17	17	4.21
CC62204		0.14	0.001	0.2	0.29	13	<10	50	<0.5	<2	>25.0	<0.5	7	5	6	2.08
CC62205		0.24	0.001	0.2	0.48	16	<10	90	<0.5	<2	19.5	<0.5	12	7	10	3.17
CC62206		0.14	0.038	3.0	0.69	264	<10	170	0.7	30	9.69	3.8	14	20	35	7.48
CC62207		0.20	0.001	0.3	0.15	10	<10	20	<0.5	<2	>25.0	<0.5	1	2	1	0.46
CC62208		0.20	0.001	0.4	0.06	11	<10	10	<0.5	<2	>25.0	<0.5	1	1	<1	0.33
CC62209		0.32	0.014	1.4	1.79	160	<10	330	0.7	<2	6.32	4.1	22	63	118	6.46
CC62210		0.14	0.225	7.0	1.16	8180	<10	170	1.5	267	0.96	28.7	10	36	1330	31.7
CC62211		0.22	0.002	<0.2	0.02	38	<10	<10	<0.5	2	0.05	<0.5	<1	1	9	0.34
CC62212		0.18	0.002	0.2	0.07	20	<10	10	<0.5	3	>25.0	<0.5	<1	1	2	0.22
CC62213		0.20	0.004	0.4	0.06	10	<10	10	<0.5	2	>25.0	<0.5	1	1	1	0.21
CC62214		0.20	0.003	0.3	0.04	10	<10	10	<0.5	3	>25.0	<0.5	<1	<1	1	0.11
CC62215		0.20	0.025	1.4	3.28	279	<10	740	1.0	14	2.33	10.8	28	108	132	9.35
CC62216		0.16	0.020	0.3	1.30	38	<10	210	0.5	<2	5.52	0.8	8	24	17	2.76
CC62217		0.16	0.007	0.3	1.19	34	<10	160	0.6	4	8.35	0.8	6	16	11	2.26
CC62218		0.18	0.012	0.4	0.67	12	<10	350	<0.5	<2	12.10	0.8	5	11	11	1.65
CC62219		0.16	0.001	<0.2	0.26	16	<10	60	<0.5	2	8.69	<0.5	8	5	17	2.36
CC62220		0.20	0.009	1.6	0.46	106	<10	840	<0.5	<2	3.04	2.3	80	26	122	10.60
CC62221		0.18	0.027	2.2	0.17	46	<10	60	<0.5	13	17.9	1.9	3	5	22	1.16
CC62222		0.14	0.105	1.7	0.26	159	<10	80	<0.5	15	17.2	1.5	3	7	12	2.20
CC62223		0.28	0.356	1.7	0.12	86	<10	70	<0.5	66	18.2	1.0	2	3	7	1.63
CC62224		0.20	0.034	0.9	0.08	25	<10	40	<0.5	3	18.1	0.9	4	13	6	0.92
CC62225		0.18	0.010	0.2	0.89	21	<10	120	<0.5	2	8.58	<0.5	5	14	10	1.74
CC62226		0.14	0.005	0.2	0.11	5	<10	40	<0.5	2	18.8	<0.5	1	3	1	0.46
CC62227		0.18	0.008	0.4	0.27	22	<10	40	<0.5	3	16.3	<0.5	3	6	5	1.06

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC62203		<10	<1	0.09	20	4.33	770	1	0.03	32	1120	13	0.12	<2	2	66
CC62204		<10	1	0.11	10	0.76	306	<1	0.02	21	510	6	<0.01	<2	3	1160
CC62205		<10	<1	0.16	10	1.64	311	<1	0.02	32	770	9	<0.01	<2	3	912
CC62206		<10	1	0.04	10	5.88	2100	11	0.02	80	1160	1070	0.10	8	2	56
CC62207		<10	1	0.01	<10	0.16	230	<1	0.02	3	210	10	<0.01	<2	1	144
CC62208		<10	1	0.01	<10	0.15	292	<1	0.01	2	130	15	<0.01	<2	<1	125
CC62209		10	1	0.15	40	0.87	2220	<1	0.01	89	1220	1750	0.02	13	7	31
CC62210		10	2	0.06	50	0.50	2370	<1	<0.01	105	750	3140	0.01	71	8	7
CC62211		<10	<1	<0.01	<10	0.01	29	<1	<0.01	<1	20	22	0.01	<2	<1	1
CC62212		<10	1	<0.01	<10	0.16	199	<1	0.01	2	100	7	<0.01	2	<1	125
CC62213		<10	1	0.01	<10	0.17	274	<1	0.02	1	170	6	<0.01	<2	<1	112
CC62214		<10	1	<0.01	<10	0.17	141	<1	0.01	<1	90	6	<0.01	<2	<1	135
CC62215		10	1	0.15	40	2.38	4150	2	0.02	185	3020	1360	0.01	16	16	17
CC62216		<10	1	0.06	10	3.48	1070	1	0.03	26	870	29	0.05	<2	3	38
CC62217		<10	1	0.05	10	4.81	1150	1	0.02	16	2030	37	0.12	2	1	41
CC62218		<10	1	0.03	10	7.95	3300	1	0.03	14	700	23	0.03	3	2	60
CC62219		<10	<1	0.11	10	0.49	329	<1	0.01	19	1390	21	0.04	<2	2	77
CC62220		10	1	0.16	30	0.54	1370	<1	0.02	255	2960	394	0.13	19	5	116
CC62221		<10	<1	0.03	10	11.20	582	<1	0.03	13	850	979	<0.01	11	1	67
CC62222		<10	1	0.03	10	10.60	969	<1	0.03	16	1630	244	<0.01	4	1	63
CC62223		<10	<1	0.02	10	11.45	783	<1	0.03	13	720	138	<0.01	4	1	66
CC62224		<10	1	0.01	10	11.35	696	<1	0.02	21	190	153	<0.01	3	1	57
CC62225		<10	<1	0.04	10	5.58	736	<1	0.03	15	1390	20	0.07	2	1	39
CC62226		<10	1	0.01	10	11.80	528	<1	0.02	9	330	34	<0.01	<2	<1	55
CC62227		<10	<1	0.02	10	10.30	442	3	0.02	13	350	36	<0.01	<2	1	59

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Zn-OG46 Zn % 0.001
CC62203		<20	0.01	<10	<10	28	<10	187	
CC62204		<20	0.01	<10	<10	5	<10	40	
CC62205		<20	0.01	<10	<10	9	<10	76	
CC62206		<20	0.01	<10	<10	53	320	1560	
CC62207		<20	<0.01	<10	10	3	10	61	
CC62208		<20	<0.01	<10	10	1	<10	39	
CC62209		<20	0.09	<10	<10	38	<10	4970	
CC62210		<20	0.07	10	<10	54	<10	>10000	2.30
CC62211		<20	<0.01	<10	<10	1	<10	123	
CC62212		<20	<0.01	<10	10	<1	<10	53	
CC62213		<20	<0.01	<10	10	<1	<10	47	
CC62214		<20	<0.01	<10	10	<1	<10	21	
CC62215		<20	0.12	<10	<10	94	10	3300	
CC62216		<20	0.04	<10	<10	52	10	216	
CC62217		<20	0.01	<10	<10	46	10	202	
CC62218		<20	0.02	<10	<10	30	<10	116	
CC62219		<20	<0.01	<10	<10	8	<10	67	
CC62220		<20	0.01	<10	<10	19	<10	884	
CC62221		<20	<0.01	<10	<10	17	<10	454	
CC62222		<20	<0.01	<10	10	21	10	382	
CC62223		<20	<0.01	<10	<10	19	20	279	
CC62224		<20	<0.01	<10	10	17	<10	324	
CC62225		<20	0.02	<10	10	38	<10	104	
CC62226		<20	<0.01	<10	10	18	<10	120	
CC62227		<20	0.01	<10	<10	25	<10	125	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 29-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09081260

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

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VANCOUVER BC V6B 1L8

Finalized Date: 20-AUG-2009
Account: RCM

CERTIFICATE VA09078189

Project: RAU

P.O. No.:

This report is for 11 Rock samples submitted to our lab in Vancouver, BC, Canada on 30-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 20-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078189

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
C386142		0.56	0.07	0.82	0.59	822	160	0.19	455	4.18	0.05	27.0	16.0	23	0.40	339
C386143		0.42	<0.01	0.14	0.09	18	540	<0.05	0.88	30.6	1.49	6.42	2.2	2	0.05	4.1
C386144		1.18	<0.01	0.07	0.03	17.3	40	<0.05	4.59	0.33	0.12	0.33	0.7	18	<0.05	8.8
C386145		0.78	0.70	54.9	0.02	6040	4180	<0.05	170.5	0.22	9.71	61.5	12.1	7	<0.05	78.0
C386146		1.32	1.77	45.4	0.02	>10000	720	<0.05	64.4	0.25	8.94	0.89	1.2	4	<0.05	32.1
C386147		0.38	0.01	1.37	0.02	82	470	0.16	1.51	20.2	3.44	2.20	1.9	2	0.11	5.6
C386148		1.86	0.48	7.08	6.30	740	1770	0.98	20.3	0.34	7.10	7.19	45.6	298	1.18	91.0
C386149		0.90	0.22	2.79	8.46	207	5810	2.28	20.3	0.22	5.38	90.9	43.3	58	1.76	109.0
C386150		0.56	0.74	28.2	0.12	4910	2960	0.20	128.0	0.69	11.70	124.5	5.3	12	<0.05	69.7
C488070		0.96	0.14	1.97	0.16	1140	70	0.07	0.67	0.12	1.96	1.55	4.8	35	0.06	111.0
C488071		0.30	0.21	7.39	0.41	712	730	0.62	13.20	17.65	46.2	39.5	30.8	6	0.09	2010

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 20-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078189

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C386142		5.31	1.98	0.07	0.1	0.271	0.29	15.4	5.2	0.44	679	3.71	0.02	1.6	45.0	150
C386143		7.11	0.33	0.07	<0.1	<0.005	0.04	4.6	0.6	0.24	936	2.58	<0.01	0.3	7.6	110
C386144		0.55	0.22	<0.05	<0.1	<0.005	0.01	<0.5	0.4	0.14	53	1.55	<0.01	0.1	5.2	20
C386145		>50	0.65	0.54	<0.1	0.166	0.01	40.7	0.5	0.12	21	26.9	0.01	0.4	131.0	310
C386146		>50	0.32	0.46	<0.1	0.088	<0.01	1.1	0.5	0.08	<5	10.45	<0.01	0.3	22.4	250
C386147		2.18	0.38	<0.05	<0.1	1.830	<0.01	1.3	0.6	2.50	6840	0.46	<0.01	0.1	22.6	170
C386148		28.7	19.15	0.42	1.1	0.043	3.45	3.0	11.4	0.46	71	20.2	0.04	2.9	405	1060
C386149		19.15	27.7	0.23	3.4	0.040	3.93	42.5	34.8	0.68	100	6.78	0.05	7.8	76.6	2440
C386150		>50	1.05	0.70	0.1	0.077	0.04	88.9	0.7	0.19	414	8.12	0.01	0.4	43.1	470
C488070		>50	1.55	0.56	<0.1	0.404	0.03	1.0	0.6	0.08	10	7.98	<0.01	0.4	32.5	1320
C488071		24.8	1.34	0.22	0.2	0.358	0.08	20.7	1.0	0.44	3240	22.4	0.01	0.8	135.5	1060

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Project: RAU

Finalized Date: 20-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078189

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
C386142		58.3	13.8	<0.002	0.75	0.42	4.0	2	22.7	54.1	0.07	0.30	0.5	0.053	0.09	0.2
C386143		23.7	1.3	<0.002	0.03	0.27	0.5	2	0.2	46.7	<0.05	<0.05	<0.2	0.005	0.08	1.8
C386144		4.3	0.5	<0.002	0.03	0.49	0.1	1	0.3	1.6	<0.05	<0.05	<0.2	<0.005	0.02	0.2
C386145		212	0.3	<0.002	0.15	19.95	<0.1	7	5.8	7.1	<0.05	3.13	<0.2	<0.005	0.03	8.9
C386146		1665	0.2	<0.002	0.15	24.1	0.1	7	6.6	5.8	<0.05	2.59	<0.2	<0.005	0.07	7.1
C386147		282	0.3	<0.002	0.01	2.06	0.1	1	0.2	13.1	<0.05	<0.05	<0.2	<0.005	0.02	0.4
C386148		221	35.5	<0.002	0.02	21.9	11.2	4	2.0	3.7	0.15	0.13	0.9	0.197	1.08	7.3
C386149		30.8	98.4	<0.002	0.09	9.37	15.7	3	8.3	8.7	0.42	0.09	6.7	0.254	1.38	4.7
C386150		1490	1.2	0.002	0.38	86.7	0.5	13	0.4	13.5	<0.05	0.38	0.8	<0.005	0.07	11.8
C488070		782	0.9	<0.002	0.04	46.9	1.3	4	2.8	1.0	<0.05	0.10	0.2	0.005	0.16	9.0
C488071		539	3.4	<0.002	0.03	16.05	2.3	3	3.8	17.4	<0.05	0.16	0.4	0.011	0.24	4.2

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Project: RAU

Finalized Date: 20-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078189

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
C386142		15	0.8	6.9	7	1.4
C386143		3	0.3	2.7	1380	0.9
C386144		19	0.4	0.1	10	<0.5
C386145		67	11.7	1.2	5060	<0.5
C386146		18	2.7	1.2	2730	<0.5
C386147		102	0.2	1.6	826	<0.5
C386148		208	44.9	3.6	5930	38.6
C386149		188	8.7	15.0	695	146.5
C386150		18	255	6.0	3880	2.1
C488070		83	3.6	1.9	1560	1.4
C488071		59	21.8	25.7	5230	6.0

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078189

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

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Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE VA09078188

Project: RAU

P.O. No.: Batch 24

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 30-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078188

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H248777		3.78	0.25	1.02	0.65	5650	640	0.24	232	1.50	4.00	13.70	3.4	22	1.18	12.0
H248778		3.04	3.16	0.47	0.58	4780	1010	0.16	403	0.25	0.84	10.40	2.0	25	0.71	9.2
H248779		3.46	3.22	0.69	0.61	8130	1120	0.12	489	1.76	1.29	12.80	2.5	17	0.54	10.3
H248780		1.22	0.31	0.57	0.87	1530	760	0.47	16.15	27.2	2.56	17.65	5.0	19	2.42	7.2
H248781		2.38	1.29	0.78	1.27	>10000	2650	0.24	502	0.48	1.53	11.00	5.2	45	2.48	19.1
H248782		3.86	0.85	0.56	2.01	7130	1960	0.48	556	0.32	2.27	9.51	2.5	46	1.35	17.8
H248783		3.86	0.01	0.03	0.15	17	30	0.08	0.97	19.00	0.12	1.83	1.1	3	0.24	9.5
H248784		2.76	2.05	1.53	0.53	5130	6170	0.31	805	0.31	2.19	38.1	2.0	14	0.29	8.8
H248785		2.10	0.83	1.63	0.68	3990	5250	0.17	408	7.19	2.39	25.2	4.7	22	0.27	10.9
H248786		2.72	0.30	0.50	0.55	390	270	0.35	9.64	25.3	1.11	10.70	2.5	15	1.04	3.6
H248787		2.36	0.19	0.79	0.61	465	630	0.29	25.0	26.9	1.48	9.55	2.8	21	0.81	3.3
H248788		0.28	0.53	1.14	0.77	5670	80	0.24	101.5	11.75	0.15	33.9	6.2	14	1.95	35.1
H248789		3.86	0.13	0.39	0.62	190	170	0.32	8.87	23.8	0.33	9.72	3.3	18	1.79	3.2
H248790		1.40	0.14	0.39	0.62	161	150	0.30	6.76	24.3	0.36	9.53	3.0	17	1.69	3.4
H248791		2.40	0.13	0.26	0.35	230	170	0.11	2.12	23.3	0.30	4.59	1.0	10	0.33	1.5
H248792		3.80	<0.01	0.01	0.08	<5	10	0.09	0.12	18.65	0.07	1.62	0.8	1	0.18	1.7
H248793		4.30	0.08	0.47	1.39	512	250	0.64	8.27	18.05	0.54	19.55	5.3	26	5.57	5.6
H248794		1.92	0.05	0.98	4.27	1640	1360	1.38	27.8	14.55	2.25	12.15	8.8	82	8.17	7.9
H248795		3.74	0.05	0.32	0.35	316	220	0.24	3.82	22.5	1.51	8.00	1.3	10	0.61	2.1
H248796		4.16	0.07	1.29	0.48	395	300	0.32	20.8	16.95	2.64	7.59	1.9	13	0.90	2.6
H248797		4.14	0.08	2.21	0.77	463	330	0.16	41.7	16.50	3.23	8.30	2.3	17	0.59	3.4
H248798		2.68	0.05	0.45	0.95	205	300	0.59	4.31	17.75	2.07	7.40	2.5	19	1.03	2.7
H248799		5.70	0.05	0.09	0.80	146	230	0.45	3.25	17.90	0.25	8.13	2.4	17	1.68	2.5
H248800		1.72	0.17	0.11	0.77	2030	390	0.38	19.30	16.55	1.58	10.00	5.6	17	0.88	2.0
H884451		4.10	0.11	0.24	1.29	603	340	0.57	7.85	17.45	0.91	9.06	5.6	27	2.62	4.0
H884452		0.28	1.46	1.59	0.10	>10000	20	<0.05	331	11.60	0.88	61.3	1.5	6	0.69	15.9
H884453		4.14	0.16	0.36	1.20	1260	350	0.58	12.25	18.25	1.52	10.90	6.3	23	1.98	4.7
H884454		2.90	0.07	0.40	1.03	815	380	0.57	6.45	17.95	1.21	7.49	3.5	21	0.80	3.7
H884455		2.06	0.16	1.06	0.30	1420	270	0.09	134.0	22.0	1.51	12.15	1.6	5	0.28	2.7
H884456		2.42	0.08	6.45	0.21	2680	380	0.12	69.7	20.7	3.15	12.15	2.7	11	0.14	7.2
H884457		4.86	0.02	0.44	0.55	321	190	0.32	2.37	19.90	1.32	6.98	1.8	14	0.68	2.6
H884458		3.50	0.02	0.27	0.75	84	1080	0.32	2.06	19.00	2.29	8.07	1.4	14	0.45	11.8
H884459		3.42	0.04	0.75	2.58	125	400	0.40	2.11	15.05	1.76	17.85	5.4	23	0.47	10.4
H884460		4.64	0.06	1.14	0.83	293	500	0.38	5.27	18.90	12.25	7.33	2.3	16	0.95	3.0
H884461		3.62	0.74	47.8	0.87	6890	4130	2.77	424	1.68	46.7	18.90	9.5	25	0.62	52.8
H884462		1.08	0.19	6.01	1.48	7020	1830	1.27	153.0	0.34	23.1	22.3	5.6	26	1.42	119.5

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Project: RAU

CERTIFICATE OF ANALYSIS VA09078188

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248777		42.2	3.53	0.58	0.4	0.1	0.159	0.20	7.4	2.0	0.28	2110	5.00	0.02	1.5	17.3
H248778		33.2	4.07	0.30	0.4	<0.1	0.304	0.17	4.7	0.9	0.19	1760	5.24	0.02	0.9	10.5
H248779		48.7	3.54	0.44	0.3	<0.1	0.317	0.12	5.7	0.5	0.21	1960	6.93	0.01	1.1	13.6
H248780		6.54	3.62	0.09	0.4	0.03	0.050	0.18	12.2	4.2	1.39	1720	0.56	0.02	3.7	24.6
H248781		37.5	5.56	0.35	0.6	<0.1	0.147	0.50	5.7	2.7	0.24	1020	6.21	0.02	2.9	24.7
H248782		46.6	12.80	0.57	1.2	<0.1	0.224	0.88	4.3	2.2	0.30	1040	11.45	0.02	4.0	15.3
H248783		0.49	0.51	0.11	<0.1	<0.01	0.009	0.05	0.9	1.8	11.80	193	0.21	0.03	0.5	5.6
H248784		48.9	2.97	0.61	0.3	<0.1	0.450	0.12	16.5	0.3	0.26	1520	10.05	0.01	0.6	12.0
H248785		38.6	3.32	0.65	0.4	<0.1	0.301	0.06	9.4	<0.2	0.32	2170	8.50	0.02	1.1	23.8
H248786		2.75	2.72	0.27	0.4	0.01	0.013	0.13	6.3	<0.2	6.52	1400	0.55	0.03	3.0	9.7
H248787		4.59	3.63	0.08	0.5	0.01	0.056	0.15	5.4	0.9	1.97	2430	1.02	0.03	2.5	11.8
H248788		13.95	3.88	0.19	0.2	<0.01	0.075	0.38	19.4	4.1	6.46	1990	17.45	0.02	3.8	26.0
H248789		2.56	3.22	0.07	0.4	0.01	0.025	0.17	6.5	2.7	6.56	1020	0.44	0.03	3.7	12.0
H248790		2.26	3.17	0.06	0.4	0.01	0.026	0.15	6.4	2.7	6.46	923	0.38	0.03	3.3	10.5
H248791		1.35	0.99	<0.05	0.2	0.01	0.008	0.05	2.8	1.2	6.97	1130	0.23	0.03	1.0	3.2
H248792		0.38	0.33	0.12	<0.1	<0.01	0.005	0.03	0.8	1.2	11.90	185	0.12	0.01	0.3	2.0
H248793		2.46	7.84	0.08	0.8	<0.01	0.025	0.32	11.6	5.4	7.78	1280	0.53	0.05	9.6	18.5
H248794		11.65	23.5	0.16	3.1	0.01	0.134	1.65	5.5	8.2	1.56	2950	1.71	0.14	25.9	31.4
H248795		4.42	1.70	0.09	0.2	0.01	0.056	0.13	5.2	3.0	6.71	1270	0.93	0.01	1.8	6.4
H248796		6.68	2.59	0.11	0.3	0.01	0.082	0.22	4.6	2.5	6.19	2160	0.77	0.01	2.5	7.4
H248797		9.57	4.56	0.31	0.4	0.01	0.214	0.35	4.4	0.3	7.39	1980	0.56	0.02	2.8	10.3
H248798		4.90	4.39	0.07	0.5	0.01	0.031	0.43	5.3	4.0	9.55	1080	0.33	0.02	4.4	9.7
H248799		2.58	3.47	0.07	0.5	<0.01	0.014	0.40	5.7	5.9	10.10	910	0.18	0.02	4.6	8.7
H248800		17.10	3.95	0.18	0.4	<0.1	0.098	0.34	5.6	2.2	4.54	2000	0.75	0.01	2.9	20.1
H884451		3.20	6.93	0.09	0.9	0.01	0.018	0.65	6.3	8.0	9.06	1040	0.32	0.02	7.7	17.3
H884452		15.90	0.94	0.20	0.1	<0.1	0.099	0.06	39.7	1.9	6.58	2190	5.40	0.01	0.5	6.5
H884453		4.33	5.31	0.08	0.8	0.01	0.025	0.55	7.6	8.3	8.56	1080	0.36	0.02	6.2	17.4
H884454		3.34	6.48	0.07	0.7	0.01	0.035	0.44	4.8	5.1	9.16	1360	0.30	0.02	5.4	10.7
H884455		7.24	2.19	0.09	0.2	0.01	0.156	0.02	4.3	1.7	5.91	4290	0.35	0.04	0.7	3.6
H884456		10.55	1.36	0.10	0.1	0.01	0.080	0.03	6.2	1.7	5.48	3570	0.66	0.02	0.3	7.4
H884457		1.93	2.48	0.05	0.3	<0.01	0.017	0.23	5.0	3.3	10.30	1020	0.19	0.01	2.8	6.2
H884458		2.28	4.32	0.06	0.5	0.01	0.036	0.28	4.5	2.7	9.91	2090	0.24	0.03	2.4	6.2
H884459		4.17	7.07	0.08	0.9	0.01	0.065	0.45	8.1	5.6	5.64	2940	0.86	0.87	3.2	12.4
H884460		3.49	4.27	0.06	0.4	0.01	0.037	0.36	4.5	3.1	8.60	1480	0.50	0.02	3.6	8.7
H884461		49.0	6.83	0.71	0.5	0.2	0.254	0.30	10.0	1.6	0.44	1100	4.15	0.01	1.1	37.6
H884462		35.5	5.73	0.31	0.6	0.1	0.692	0.15	13.0	4.9	0.32	2410	3.20	0.04	1.8	52.4

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078188

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H248777		660	32.7	16.8	<0.002	0.05	10.40	2.5	3	1.1	8.0	0.09	0.51	0.8	0.038	0.24
H248778		490	17.6	16.0	<0.002	0.06	14.70	2.6	2	1.1	7.8	0.05	0.40	0.6	0.030	0.20
H248779		490	21.4	15.9	<0.002	0.06	13.15	1.9	3	0.8	10.8	0.13	0.44	0.7	0.025	0.23
H248780		340	15.5	22.0	<0.002	0.02	1.80	2.7	3	1.0	22.0	0.20	0.30	0.8	0.091	0.24
H248781		420	72.4	28.3	0.010	0.11	16.70	4.3	3	1.5	14.3	0.14	0.65	1.4	0.102	0.49
H248782		670	14.6	56.4	0.002	0.06	13.60	3.0	3	3.0	11.4	0.21	0.29	1.8	0.064	0.42
H248783		220	5.1	2.3	<0.002	0.02	0.14	0.3	1	0.2	52.0	<0.05	<0.05	0.2	0.006	0.02
H248784		340	62.1	14.0	<0.002	0.17	20.8	5.1	5	0.8	20.3	<0.05	0.61	0.5	0.015	0.15
H248785		350	88.8	7.1	0.004	0.15	10.70	2.8	4	4.2	28.3	0.08	0.90	0.7	0.023	0.10
H248786		200	21.6	20.1	<0.002	0.01	0.79	0.3	2	1.6	56.8	0.18	0.25	0.6	0.081	0.13
H248787		320	28.7	27.2	<0.002	0.01	1.22	2.6	3	1.3	33.1	0.12	0.78	0.6	0.059	0.17
H248788		210	14.9	33.4	0.014	>10.0	4.91	1.9	8	3.4	89.1	0.26	0.22	0.7	0.091	0.27
H248789		270	14.4	27.4	<0.002	0.03	0.81	1.9	3	1.7	37.2	0.20	0.20	0.8	0.090	0.20
H248790		270	14.7	23.6	<0.002	0.02	0.70	2.0	2	1.8	37.8	0.18	0.17	0.7	0.081	0.18
H248791		200	5.1	4.5	<0.002	0.01	0.17	0.7	1	0.4	20.5	0.06	0.08	0.3	0.051	0.06
H248792		290	1.4	1.4	<0.002	0.01	<0.05	0.2	1	<0.2	51.2	<0.05	<0.05	<0.2	<0.005	<0.02
H248793		460	17.7	56.9	<0.002	0.02	0.58	4.1	2	2.9	48.2	0.49	0.26	2.1	0.154	0.54
H248794		990	39.6	153.0	<0.002	0.41	1.12	9.5	3	7.6	79.2	1.55	0.47	8.9	0.349	1.10
H248795		140	54.4	14.6	<0.002	0.02	0.50	2.0	4	0.8	56.6	0.10	0.08	0.3	0.042	0.11
H248796		170	110.5	19.2	<0.002	0.02	1.24	2.4	6	1.7	60.9	0.14	0.16	0.5	0.061	0.12
H248797		300	114.0	22.4	0.004	0.02	1.76	1.9	3	7.6	79.7	0.18	0.16	0.5	0.074	0.07
H248798		280	55.0	23.7	<0.002	0.02	0.85	2.3	4	1.3	81.9	0.23	0.06	0.7	0.113	0.19
H248799		290	6.9	21.2	<0.002	0.02	0.72	1.7	2	1.0	81.8	0.25	0.07	0.7	0.118	0.18
H248800		490	53.6	17.8	<0.002	0.02	1.45	3.9	6	1.2	59.0	0.16	0.05	0.7	0.075	0.13
H884451		450	12.8	33.5	<0.002	0.02	1.15	3.1	3	2.4	75.3	0.45	0.17	1.2	0.200	0.22
H884452		100	14.6	7.4	0.005	>10.0	21.0	0.4	4	1.1	88.7	<0.05	0.85	0.5	0.008	0.10
H884453		400	27.6	26.8	<0.002	0.04	1.43	3.3	3	1.8	64.8	0.35	0.21	1.0	0.167	0.19
H884454		320	45.2	22.2	<0.002	0.02	1.34	1.9	3	2.6	80.9	0.30	0.15	0.7	0.136	0.15
H884455		150	75.0	1.6	<0.002	0.01	5.83	4.6	2	0.5	85.9	<0.05	0.27	<0.2	0.017	0.04
H884456		100	141.0	1.9	<0.002	0.02	2.34	4.1	3	8.6	56.2	<0.05	0.19	<0.2	0.007	0.06
H884457		180	24.0	13.2	<0.002	0.01	0.63	1.8	2	4.7	82.2	0.15	0.06	0.5	0.074	0.10
H884458		240	50.9	14.6	<0.002	0.04	0.55	1.9	2	2.8	103.0	0.12	0.09	0.3	0.061	0.10
H884459		430	61.0	14.6	<0.002	0.05	0.73	8.6	2	1.8	160.0	0.19	0.08	1.4	0.152	0.11
H884460		220	65.7	23.4	<0.002	0.02	0.73	2.2	2	1.9	76.0	0.19	0.05	0.5	0.093	0.17
H884461		550	1220	18.2	0.003	0.14	55.4	4.3	21	2.2	25.6	0.05	0.48	0.4	0.025	0.26
H884462		640	847	11.7	0.002	0.38	66.0	6.2	5	4.0	439	0.11	0.34	0.8	0.045	1.09

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

CERTIFICATE OF ANALYSIS VA09078188

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
	Analyte	U	V	W	Y	Zn	Zr	Zn
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.001
H248777		1.8	20	29.8	17.4	306	17.2	
H248778		1.6	19	21.2	12.6	133	16.7	
H248779		1.4	24	288	18.3	258	14.6	
H248780		0.6	26	58.1	19.0	529	19.3	
H248781		2.2	39	1370	8.6	493	23.4	
H248782		2.6	40	356	13.3	393	55.7	
H248783		0.5	5	1.2	1.0	26	0.9	
H248784		2.8	23	386	32.5	336	13.0	
H248785		3.0	24	236	24.0	830	15.2	
H248786		0.5	22	8.2	7.7	188	17.2	
H248787		0.9	21	6.7	10.3	386	21.4	
H248788		0.4	18	66.1	7.4	30	12.3	
H248789		0.6	23	4.9	6.8	114	20.4	
H248790		0.5	22	4.4	6.5	106	19.4	
H248791		0.2	14	0.8	3.4	125	6.2	
H248792		0.8	4	0.1	1.0	14	0.7	
H248793		0.8	27	4.1	7.8	173	38.9	
H248794		3.3	75	14.8	12.3	434	135.5	
H248795		0.5	13	1.5	6.9	219	8.5	
H248796		0.7	16	2.0	6.1	473	13.4	
H248797		1.2	23	3.1	7.7	448	19.0	
H248798		0.7	24	3.7	6.1	255	23.1	
H248799		0.5	21	2.0	5.6	38	21.2	
H248800		1.2	24	3.2	10.0	334	20.0	
H884451		0.9	38	4.9	6.9	147	39.5	
H884452		0.7	7	176.5	7.1	127	3.5	
H884453		1.0	36	5.7	8.7	255	33.3	
H884454		0.7	29	5.2	6.1	212	30.5	
H884455		0.8	17	42.4	16.5	308	8.6	
H884456		0.7	14	31.8	15.8	754	4.3	
H884457		0.4	15	2.2	6.0	222	14.2	
H884458		0.5	20	6.8	7.6	247	18.7	
H884459		0.8	58	30.2	19.0	311	30.9	
H884460		0.6	20	4.7	6.3	1180	18.7	
H884461		8.0	56	460	23.6	>10000	25.7	1.285
H884462		5.8	61	284	18.8	9930	21.7	

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1016-510 W HASTINGS ST
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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078188

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE VA09078180

Project: RAU

P.O. No.: Batch 25

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 30-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078180

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	Au-AA26 Au Check ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
H884463		1.22	0.04		17.10	0.19	1240	4340	0.22	86.7	22.6	37.4	10.90	2.2	<1	0.27
H884464		2.34	0.08		4.11	0.79	4250	5440	0.86	31.1	11.20	32.7	16.50	5.1	10	0.64
H884465		3.88	<0.01		0.17	0.09	11	40	0.05	0.14	19.25	0.47	1.48	1.1	<1	0.17
H884466		3.30	0.01		1.06	0.38	389	500	0.36	5.95	17.95	7.59	7.11	2.2	5	0.29
H884467		0.28	1.49		1.69	0.10	>10000	30	<0.05	330	12.35	0.88	54.5	1.7	3	0.56
H884468		5.88	0.09		2.79	1.53	264	410	0.77	15.55	17.15	5.92	9.91	2.8	22	0.54
H884469		1.00	0.95		7.44	7.35	1880	1470	2.96	79.5	1.17	12.95	8.92	8.3	112	4.60
H884470		1.72	1.56		5.11	0.96	3980	2780	0.30	237	10.45	11.85	14.90	4.9	42	1.14
H884471		5.14	0.13		1.18	1.43	201	310	0.53	13.50	24.1	1.25	19.25	5.3	31	3.93
H884472		4.94	0.02		0.21	0.63	16	150	0.34	2.22	21.6	2.66	10.70	3.3	9	1.69
H884473		4.22	0.03		0.60	0.56	242	100	0.47	2.17	21.3	1.50	6.46	2.0	6	0.72
H884474		7.88	0.03		0.93	0.13	275	70	0.10	8.49	19.65	1.83	6.75	2.4	<1	0.25
H884475		3.70	0.19		0.88	0.14	232	40	0.12	6.70	18.65	1.58	5.91	2.1	<1	0.20
H884476		13.12	0.03		0.73	0.25	471	20	0.17	9.49	17.85	3.94	8.03	3.2	<1	0.31
H884477		7.02	0.04		1.42	0.29	138	20	0.17	15.35	16.65	3.29	6.73	2.2	2	0.43
H884478		6.82	<0.01		0.08	0.33	15	10	0.19	0.33	19.90	0.80	7.12	0.7	8	0.46
H884479		1.40	0.04		1.85	0.48	277	150	0.11	15.15	31.4	0.26	6.88	2.3	16	0.39
H884480		0.46	0.05		0.65	0.81	2060	410	0.20	34.2	22.1	0.27	10.20	2.8	16	1.03
H884481		2.68	1.76		2.91	1.08	>10000	1160	0.30	291	1.18	0.24	11.45	5.8	13	1.31
H884482		0.28	0.48		0.83	0.79	5920	120	0.25	93.8	12.25	0.13	32.4	5.9	13	1.95
H884483		3.02	2.99	1.74	0.28	0.23	>10000	1150	<0.05	986	10.25	<0.02	9.57	2.4	2	<0.05
H884484		4.06	<0.01	0.01	0.02	0.07	83	130	0.09	1.63	18.85	0.06	1.38	0.9	1	0.16
H884485		0.38	0.24		0.05	0.05	2400	200	0.10	8.84	28.5	0.10	5.20	0.7	1	0.06
H884486		5.44	0.76		0.92	0.20	8920	530	0.11	398	8.41	2.36	9.72	2.2	3	0.06
H884487		2.36	1.86		4.51	0.37	>10000	610	<0.05	1130	0.67	1.97	16.85	0.9	5	<0.05
H884488		2.50	1.23		2.03	0.05	>10000	610	<0.05	1160	0.33	2.03	15.20	1.9	<1	<0.05
H884489		4.28	0.02		0.37	0.09	1520	300	0.09	69.1	20.4	2.76	11.40	2.2	1	0.22
H884490		4.32	0.07		0.09	0.06	351	220	<0.05	777	16.10	0.48	11.20	2.2	<1	0.27
H884491		2.16	<0.01		0.16	0.07	58	50	<0.05	60.5	20.1	0.42	10.55	0.7	1	0.40
H884492		4.40	<0.01		0.13	0.06	52	40	<0.05	55.8	20.0	0.53	11.50	0.6	1	0.43
H884493		7.34	0.04		1.70	0.07	1010	230	<0.05	158.5	13.75	2.80	251	2.0	1	0.20
H884494		3.42	0.04		0.22	0.10	631	120	<0.05	359	8.94	0.17	>500	3.2	1	0.12
H884495		2.26	0.15		0.08	0.13	1920	160	<0.05	1485	12.15	<0.02	239	0.8	2	<0.05
H884496		2.34	0.23		0.88	0.21	3850	240	0.06	390	0.61	0.60	15.20	2.7	2	0.08
H884497		0.86	0.19		1.19	0.21	4670	200	0.09	156.0	0.27	0.84	14.25	3.4	3	0.06
H884498		0.34	0.43		2.27	0.66	9690	190	0.26	307	0.40	0.90	17.05	2.1	12	0.76

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078180

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H884463		21.0	7.66	1.02	0.06	0.1	0.357	0.03	6.9	4.1	4.32	6700	1.86	0.01	0.4	17.1
H884464		27.3	21.0	4.49	0.26	0.4	0.425	0.23	9.9	2.4	6.42	1770	1.35	0.01	1.6	21.7
H884465		2.7	0.44	0.28	<0.05	<0.1	0.006	0.04	0.7	2.4	12.70	207	0.13	0.01	0.3	8.6
H884466		4.6	4.43	1.77	<0.05	0.3	0.182	0.17	5.0	2.8	9.76	2370	0.45	0.01	2.6	13.2
H884467		18.3	15.95	1.02	0.18	0.1	0.108	0.06	35.4	2.3	6.70	2110	5.57	0.01	0.5	11.5
H884468		11.8	4.89	9.80	<0.05	1.1	0.353	0.39	4.9	3.9	8.46	5060	0.50	0.07	7.3	13.7
H884469		37.8	19.15	51.5	0.24	3.8	0.669	2.84	4.0	9.8	1.10	2000	0.95	0.19	4.3	24.4
H884470		24.4	24.2	5.39	0.20	0.5	0.206	0.35	7.6	2.7	1.99	5200	8.41	0.01	1.8	24.8
H884471		7.2	2.13	5.52	<0.05	0.8	0.046	0.73	14.9	4.5	2.80	1260	0.48	0.02	6.5	20.3
H884472		3.9	1.60	2.18	<0.05	0.4	0.130	0.33	9.4	3.2	4.96	2750	0.26	0.01	3.3	15.3
H884473		8.6	2.69	3.13	<0.05	0.3	0.086	0.22	4.6	4.1	8.15	2060	0.61	0.03	2.2	11.9
H884474		5.0	4.94	0.90	<0.05	0.1	0.074	0.04	3.2	3.0	9.13	3840	0.51	0.02	0.5	10.7
H884475		5.4	4.47	0.98	<0.05	0.2	0.071	0.03	2.8	3.0	9.24	3560	0.47	0.02	0.9	10.0
H884476		4.7	6.53	1.77	<0.05	0.2	0.150	0.03	3.9	2.8	9.28	4340	0.41	0.02	0.5	13.1
H884477		6.4	4.94	2.13	<0.05	0.3	0.078	0.07	3.3	3.6	9.95	3670	0.07	0.03	1.3	9.9
H884478		2.7	2.06	2.35	0.07	0.3	0.095	0.02	3.5	2.7	11.10	3260	0.06	0.05	1.3	2.3
H884479		8.1	1.10	1.64	0.07	0.2	0.014	0.17	4.4	1.8	0.96	281	0.57	0.04	1.6	10.8
H884480		7.1	5.46	3.83	0.13	0.4	0.028	0.32	5.6	3.3	6.09	406	0.76	0.05	2.1	11.5
H884481		9.8	40.1	8.55	0.58	0.6	0.173	0.22	4.5	4.5	0.94	7520	2.66	0.01	1.0	19.6
H884482		34.6	14.45	3.66	0.24	0.2	0.076	0.39	18.7	3.7	6.34	2030	17.65	0.02	1.7	23.3
H884483		<0.2	30.2	<0.05	0.39	0.1	<0.005	0.04	4.0	<0.2	1.38	6450	0.55	0.01	0.8	7.5
H884484		1.6	0.49	0.33	0.06	<0.1	0.006	0.03	0.7	1.1	11.70	200	0.09	0.01	0.3	2.6
H884485		1.2	3.82	0.37	0.08	<0.1	0.030	<0.01	3.1	0.9	3.44	1790	0.16	0.01	0.2	2.7
H884486		5.4	31.6	1.99	0.45	0.2	0.105	0.01	4.2	0.9	2.58	4350	0.29	0.01	0.6	7.3
H884487		11.2	49.4	<0.05	0.73	0.2	0.014	0.12	6.9	<0.2	0.19	2740	<0.05	0.01	0.9	7.5
H884488		27.7	>50	<0.05	0.75	<0.1	0.033	0.01	6.4	<0.2	0.15	3440	<0.05	0.01	0.3	8.3
H884489		23.3	10.75	1.01	0.21	0.1	0.104	0.02	4.7	1.1	6.47	6260	0.64	0.01	0.3	6.9
H884490		7.2	9.32	0.93	0.15	0.1	0.058	0.02	4.2	4.0	9.39	6380	0.16	0.01	0.3	5.9
H884491		5.6	3.21	0.82	0.09	0.1	0.059	0.01	4.3	1.8	11.10	4920	0.09	0.02	0.2	2.0
H884492		7.3	3.42	0.84	0.10	0.1	0.062	0.01	5.2	2.0	10.10	5130	0.08	0.01	0.2	2.1
H884493		15.2	14.35	1.45	0.34	0.1	0.088	0.01	161.5	1.4	7.59	6790	0.19	0.01	0.3	7.5
H884494		5.5	23.8	2.16	0.52	0.2	0.078	0.01	393	1.1	5.84	5100	0.06	0.01	0.4	14.1
H884495		51.4	14.20	<0.05	0.32	0.1	<0.005	0.02	152.0	<0.2	7.43	6390	<0.05	0.01	0.4	4.8
H884496		45.4	>50	1.92	0.65	0.1	0.163	0.02	7.7	0.4	0.44	2430	0.09	0.01	0.6	9.6
H884497		99.1	>50	1.83	0.61	0.1	0.256	0.02	6.1	0.4	0.19	2560	0.12	0.01	0.5	9.4
H884498		198.0	47.2	5.39	0.74	0.4	0.350	0.20	7.9	1.0	0.39	1720	0.44	0.01	0.9	8.6

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09078180

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H884463		110	250	2.6	<0.002	0.13	3.01	1.1	4	2.2	88.6	<0.05	<0.05	0.2	0.010	0.15
H884464		360	472	18.7	<0.002	0.16	30.7	3.1	4	11.0	61.9	0.09	0.09	1.3	0.048	0.28
H884465		230	29.4	1.7	<0.002	0.02	0.29	0.3	3	0.2	50.9	<0.05	<0.05	<0.2	<0.005	<0.02
H884466		140	87.2	16.7	<0.002	0.02	1.36	1.4	4	6.8	68.1	0.14	<0.05	0.4	0.062	0.09
H884467		120	15.0	7.5	0.004	>10.0	22.3	0.5	6	1.2	88.7	<0.05	0.96	0.4	0.007	0.10
H884468		200	129.5	25.1	<0.002	0.07	0.78	2.1	3	16.3	70.8	0.40	0.07	1.2	0.168	0.21
H884469		530	527	197.5	<0.002	0.05	2.64	6.7	2	46.9	27.0	0.23	0.35	6.5	0.168	1.22
H884470		410	145.5	25.2	0.003	0.14	8.51	2.9	3	2.3	49.4	0.09	0.32	1.0	0.048	0.42
H884471		360	68.7	56.0	<0.002	0.14	0.84	3.4	3	2.3	148.5	0.36	0.09	1.6	0.145	0.47
H884472		210	31.7	29.8	<0.002	0.09	0.41	1.4	3	3.2	99.0	0.19	<0.05	0.6	0.070	0.25
H884473		180	57.5	26.7	<0.002	0.05	0.62	1.6	3	8.5	191.0	0.12	<0.05	0.4	0.056	0.20
H884474		110	91.9	2.5	<0.002	0.17	0.69	1.1	3	0.9	105.0	<0.05	<0.05	<0.2	0.009	0.06
H884475		110	82.1	2.3	<0.002	0.13	0.60	1.0	3	1.1	102.0	0.06	<0.05	<0.2	0.015	0.04
H884476		120	102.5	3.1	<0.002	0.25	0.69	1.1	4	3.9	73.6	<0.05	0.05	<0.2	0.011	0.11
H884477		130	153.0	7.2	<0.002	0.68	0.67	1.6	3	2.0	96.1	0.07	0.06	<0.2	0.033	0.07
H884478		90	18.9	1.8	<0.002	0.08	0.24	2.1	2	2.8	79.5	0.07	<0.05	<0.2	0.031	0.03
H884479		90	13.3	6.7	<0.002	0.02	0.70	1.7	2	0.4	164.0	0.09	<0.05	0.6	0.042	0.08
H884480		170	13.0	15.4	<0.002	0.02	1.28	2.2	2	1.1	158.5	0.12	0.07	0.9	0.057	0.14
H884481		380	12.9	15.8	0.005	0.08	10.75	2.8	3	1.7	18.2	<0.05	0.57	0.4	0.031	0.65
H884482		220	12.7	30.5	0.017	>10.0	4.04	1.9	5	2.9	85.7	0.09	0.19	0.7	0.044	0.29
H884483		190	13.2	1.2	<0.002	0.05	13.10	1.1	3	0.6	10.6	<0.05	0.79	<0.2	0.011	<0.02
H884484		280	3.5	1.2	<0.002	0.01	0.11	0.4	2	<0.2	50.4	<0.05	<0.05	<0.2	<0.005	<0.02
H884485		60	6.0	0.3	<0.002	0.01	0.61	0.4	1	0.2	22.8	<0.05	<0.05	<0.2	<0.005	0.02
H884486		210	26.2	0.8	0.002	0.05	11.15	0.8	4	0.4	12.4	<0.05	0.33	0.2	0.009	0.14
H884487		210	74.8	6.6	<0.002	0.08	47.5	1.2	16	0.7	4.3	<0.05	0.66	<0.2	0.012	<0.02
H884488		140	41.4	<0.1	<0.002	0.09	45.0	0.2	15	0.4	3.3	<0.05	1.62	<0.2	<0.005	<0.02
H884489		150	116.0	2.3	0.002	0.11	8.23	0.8	3	0.7	74.3	<0.05	0.09	<0.2	<0.005	0.35
H884490		120	39.8	1.2	0.002	0.22	10.80	2.3	4	3.1	103.0	<0.05	0.76	<0.2	<0.005	0.05
H884491		70	27.6	1.4	<0.002	0.23	1.28	1.0	2	0.6	109.0	<0.05	0.07	0.2	<0.005	0.03
H884492		100	38.4	1.2	0.003	0.25	1.28	0.9	2	0.5	113.5	<0.05	0.06	<0.2	<0.005	0.09
H884493		190	262	0.7	0.014	2.40	3.67	1.3	2	0.4	92.8	<0.05	0.26	0.8	<0.005	0.21
H884494		390	8.1	0.4	0.006	3.76	6.05	2.1	3	0.5	67.2	<0.05	0.49	1.9	0.006	0.10
H884495		240	13.4	0.2	<0.002	1.75	49.5	2.1	6	0.8	93.5	<0.05	1.98	0.6	0.012	<0.02
H884496		280	46.6	1.4	0.008	0.21	13.95	1.2	11	0.3	10.7	<0.05	0.60	0.3	0.005	0.23
H884497		500	110.0	1.3	0.002	0.11	8.16	1.7	13	0.5	10.7	<0.05	0.31	0.3	<0.005	0.17
H884498		800	186.0	28.1	<0.002	0.09	78.2	2.1	26	5.6	13.5	<0.05	0.61	0.6	0.023	0.35

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Project: RAU

Finalized Date: 31-AUG-2009
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CERTIFICATE OF ANALYSIS VA09078180

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H884463		0.9	7	5.9	9.7	2640	2.7
H884464		3.2	25	141.0	15.7	5770	14.9
H884465		0.6	1	0.4	1.1	95	<0.5
H884466		0.6	14	7.7	7.6	1100	12.3
H884467		1.3	5	191.0	7.3	136	3.1
H884468		1.3	37	6.4	9.5	764	44.2
H884469		4.5	171	124.0	10.1	3950	139.5
H884470		1.6	25	125.0	14.6	1620	22.1
H884471		1.1	49	6.6	13.6	320	34.1
H884472		0.6	21	1.7	7.7	613	16.8
H884473		0.9	10	3.4	6.1	485	12.2
H884474		0.3	5	6.2	8.3	418	4.9
H884475		0.4	5	2.1	7.5	376	7.3
H884476		0.6	8	7.1	9.1	887	6.7
H884477		0.5	8	7.7	7.2	700	10.8
H884478		0.3	13	1.9	10.6	149	9.2
H884479		0.5	16	11.3	4.8	42	6.7
H884480		0.8	20	12.4	4.6	47	13.4
H884481		2.7	22	480	15.4	62	22.4
H884482		0.4	19	60.3	7.7	32	6.5
H884483		2.2	12	156.5	10.6	99	5.6
H884484		0.6	4	1.2	1.1	15	<0.5
H884485		0.2	8	14.4	4.0	17	1.0
H884486		1.5	12	113.5	11.5	469	6.8
H884487		3.6	18	210	12.8	325	12.1
H884488		1.8	11	7.0	13.5	712	2.0
H884489		1.1	8	25.7	16.6	903	6.7
H884490		0.6	3	403	14.9	122	2.2
H884491		0.2	5	5.7	14.5	86	2.0
H884492		0.3	5	256	13.3	107	2.3
H884493		2.6	8	990	20.2	654	3.3
H884494		7.4	11	480	28.3	58	4.6
H884495		2.7	11	268	23.8	67	3.8
H884496		2.0	12	610	8.7	398	5.2
H884497		2.0	10	135.0	8.5	579	4.3
H884498		2.2	23	51.5	10.3	630	18.7

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CERTIFICATE OF ANALYSIS VA09078180

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

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Finalized Date: 23-AUG-2009
This copy reported on 9-OCT-2009
Account: RCM

CERTIFICATE VA09076284

Project: RAU

P.O. No.: Batch 23

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009. CORRECTED COPY

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H248741		1.96	0.17	0.34	0.97	1510	700	0.35	24.8	31.5	0.78	15.80	3.9	31	2.14	7.8
H248742		7.02	2.37	39.8	0.87	>10000	350	0.28	1110	1.06	1.74	14.95	2.6	17	1.95	10.7
H248743		7.94	4.69	55.4	0.48	>10000	2570	0.16	1240	0.73	2.22	9.84	2.4	10	1.47	10.3
H248744		4.36	2.32	3.23	0.36	>10000	2190	0.10	1200	0.64	2.06	9.22	3.9	4	1.78	8.8
H248745		4.06	<0.01	0.13	0.06	67	20	0.09	2.40	19.65	0.06	1.41	1.0	1	1.21	1.8
H248746		3.50	4.92	6.38	0.43	>10000	3290	0.19	1400	0.56	2.74	15.85	2.8	5	1.31	15.5
H248747		4.18	0.76	0.14	0.18	2850	440	0.12	93.8	19.25	1.39	13.85	0.9	<1	1.37	26.1
H248748		8.62	0.84	0.52	0.90	342	330	0.38	371	19.40	0.83	15.80	2.5	4	1.53	15.6
H248749		9.54	0.08	0.31	0.05	315	50	<0.05	215	19.30	3.09	23.1	0.8	<1	0.28	5.8
H248750		9.12	0.03	0.08	0.03	197	40	0.06	335	19.50	2.31	45.6	0.7	<1	0.56	2.6
H248751		4.36	0.03	0.10	0.03	181	40	0.05	513	19.20	2.09	36.0	0.7	<1	0.32	3.3
H248752		6.60	0.02	0.09	0.09	181	60	0.08	444	20.1	0.35	30.5	1.1	<1	0.24	2.8
H248753		7.90	0.09	0.22	0.38	634	170	0.19	322	18.55	1.00	16.10	3.0	<1	0.52	6.0
H248754		7.30	0.03	1.22	0.12	399	450	<0.05	504	17.90	2.09	28.3	1.3	<1	0.18	3.4
H248755		5.00	0.04	2.82	0.05	892	2300	0.05	179.5	16.70	7.46	64.2	2.2	<1	0.17	7.6
H248756		4.30	0.37	0.78	0.16	6300	220	0.19	1560	4.61	0.41	22.8	2.5	<1	0.13	6.7
H248757		6.04	0.23	1.00	0.24	4640	300	<0.05	898	9.50	0.72	13.50	4.7	<1	0.11	8.1
H248758		0.28	0.61	0.84	0.87	6320	140	0.30	109.5	13.50	0.15	32.6	5.5	15	1.94	32.6
H248759		4.74	0.42	0.65	0.19	3610	100	0.06	358	13.05	1.08	12.55	2.8	<1	0.20	4.9
H248760		3.68	<0.01	0.03	0.08	26	30	0.09	3.35	19.90	0.06	1.47	0.9	<1	0.16	1.9
H248761		7.00	0.03	0.09	0.13	727	20	0.10	71.9	16.70	0.07	5.02	1.7	<1	0.34	2.1
H248762		3.64	0.01	0.10	0.09	639	160	0.08	21.1	16.85	0.10	7.28	1.8	<1	0.26	3.3
H248763		7.24	0.02	0.43	0.38	720	120	0.17	81.4	17.60	0.71	27.7	2.8	2	0.68	10.0
H248764		3.98	0.02	1.70	0.11	216	170	0.13	120.5	14.50	4.23	23.8	6.9	<1	0.23	6.7
H248765		6.70	0.05	4.15	0.12	448	10	<0.05	326	12.40	4.43	15.05	12.6	<1	0.22	8.7
H248766		7.16	0.02	0.89	0.16	255	10	<0.05	180.0	14.85	1.75	43.0	10.8	<1	0.31	3.0
H248767		4.18	0.05	2.42	0.26	605	10	<0.05	1255	6.84	1.00	22.4	14.6	<1	0.10	8.2
H248768		8.32	0.02	0.75	0.10	464	10	<0.05	345	14.85	1.63	26.9	21.7	<1	0.41	7.5
H248769		13.30	0.10	0.62	0.37	793	30	0.14	375	13.20	0.93	23.3	4.6	2	1.49	11.1
H248770		11.20	0.36	0.32	0.58	1380	70	0.26	183.0	12.60	0.67	9.92	4.5	5	1.59	19.4
H248771		0.28	5.75	0.27	0.13	>10000	30	<0.05	482	8.17	0.04	35.5	1.7	11	0.72	39.9
H248772		4.22	3.65	0.55	0.03	262	10	<0.05	1750	14.60	1.51	7.88	4.3	1	0.43	24.0
H248773		3.86	0.01	0.05	0.17	35	60	0.06	3.17	35.1	0.21	3.02	1.3	5	0.23	1.7
H248774		3.16	<0.01	0.08	0.44	16	110	0.15	3.89	34.0	0.48	4.73	2.0	11	0.71	3.5
H248775		3.24	0.12	1.49	2.43	3310	1140	0.64	304	1.63	5.34	29.8	10.2	59	3.92	34.0
H248776		1.20	0.09	0.72	2.40	1730	590	0.62	56.3	15.10	3.63	30.8	9.0	47	5.22	21.9

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H248744, H248746, H248747, H248748, H248757, H248758 AND H248771.**

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248741		3.29	2.98	0.06	0.3	0.01	0.044	0.41	10.0	6.2	0.34	447	0.38	0.01	5.5	16.0
H248742		37.8	6.19	0.29	0.7	0.07	0.158	0.76	9.0	5.7	0.12	1140	3.69	0.02	1.4	11.5
H248743		45.3	4.71	0.59	0.3	0.11	0.160	0.22	4.9	2.8	0.11	1280	5.90	0.01	0.9	10.7
H248744		47.4	3.25	0.61	0.2	0.03	0.137	0.12	4.5	2.6	0.54	1720	5.24	0.01	0.7	14.0
H248745		0.51	0.22	<0.05	<0.1	<0.01	0.007	0.03	0.8	3.0	12.45	179	0.07	<0.01	0.3	1.9
H248746		37.1	3.93	0.40	0.5	0.03	0.143	0.16	7.8	2.8	0.35	1730	3.80	0.01	1.1	11.9
H248747		12.35	1.76	0.14	0.1	<0.01	0.148	0.03	5.5	2.8	5.31	7830	0.62	<0.01	0.2	2.2
H248748		7.94	7.52	0.13	0.5	<0.01	0.086	0.40	6.4	5.0	5.36	10050	0.39	0.01	3.1	9.5
H248749		6.91	0.70	0.11	0.1	<0.01	0.103	0.02	9.8	3.4	8.72	8960	0.27	<0.01	0.1	1.3
H248750		6.32	0.59	0.11	0.1	<0.01	0.063	0.02	23.3	3.7	9.50	6980	0.18	<0.01	0.1	0.7
H248751		6.13	0.54	0.10	0.1	<0.01	0.062	0.02	17.9	3.7	9.58	7460	0.19	<0.01	0.1	0.9
H248752		4.69	0.77	0.08	0.1	<0.01	0.054	0.04	15.4	4.0	9.95	5400	0.29	<0.01	0.3	2.2
H248753		9.35	2.66	0.12	0.3	<0.01	0.078	0.17	6.0	4.8	8.46	7250	0.66	0.01	1.3	6.9
H248754		7.09	0.80	0.08	0.1	<0.01	0.042	0.04	15.8	<0.2	9.94	8290	0.43	0.02	1.0	2.3
H248755		11.70	0.68	0.15	0.1	0.01	0.080	0.01	41.8	1.1	9.07	9230	0.54	0.02	0.3	3.6
H248756		44.3	1.29	0.48	0.2	<0.01	0.110	0.03	10.1	<0.2	2.04	4610	0.77	0.02	0.6	6.3
H248757		32.3	1.80	0.29	0.2	<0.01	0.120	0.02	5.1	<0.2	4.86	7180	2.89	0.03	0.6	12.7
H248758		15.70	3.69	0.21	0.2	<0.01	0.072	0.43	19.9	3.8	7.19	2180	15.45	0.03	3.7	22.8
H248759		21.1	1.45	0.24	0.2	<0.01	0.100	0.02	5.2	1.3	6.79	5250	0.37	0.02	0.7	7.9
H248760		0.55	0.28	<0.05	<0.1	<0.01	0.005	0.04	0.8	1.2	13.10	233	0.09	0.01	0.3	2.3
H248761		7.79	0.90	0.10	0.1	<0.01	0.030	0.02	2.7	1.9	10.40	2080	0.06	0.02	0.4	4.3
H248762		6.34	0.67	0.07	<0.1	<0.01	0.032	0.01	3.7	1.9	9.97	3250	0.06	0.01	0.2	5.4
H248763		6.39	2.52	0.08	0.2	<0.01	0.100	0.05	15.4	2.1	10.25	4980	0.19	0.03	1.5	8.6
H248764		11.80	0.95	0.14	0.1	0.01	0.120	0.01	14.0	1.3	8.22	6110	0.11	0.02	0.3	18.7
H248765		17.15	0.97	0.25	0.1	0.01	0.067	0.01	8.7	1.1	7.12	3980	0.10	0.02	0.6	23.3
H248766		11.05	1.24	0.17	0.2	<0.01	0.072	0.01	28.4	1.5	9.15	4820	0.06	0.02	0.7	19.8
H248767		32.1	1.92	0.27	0.1	<0.01	0.023	0.01	15.1	<0.2	3.78	2070	<0.05	0.03	0.4	32.8
H248768		12.85	0.82	0.18	0.1	<0.01	0.079	0.01	17.1	1.5	8.99	4700	0.08	0.02	0.2	53.5
H248769		14.20	2.39	0.21	0.2	0.01	0.066	0.17	13.8	2.2	7.80	4000	0.14	0.02	1.7	16.4
H248770		12.40	5.05	0.19	0.4	<0.01	0.092	0.17	4.3	3.3	8.11	3940	0.15	0.02	2.4	11.1
H248771		21.9	1.02	0.33	0.2	0.01	0.092	0.07	24.5	1.1	4.59	1360	10.65	0.01	1.4	13.6
H248772		9.65	0.47	0.14	<0.1	<0.01	0.076	0.01	2.7	1.6	8.75	5870	<0.05	0.01	0.2	8.9
H248773		0.26	0.42	<0.05	0.1	<0.01	<0.005	0.07	3.2	0.6	0.34	219	0.05	<0.01	0.9	5.7
H248774		0.51	0.99	<0.05	0.1	0.01	0.007	0.16	4.7	1.8	0.52	279	0.09	0.01	1.7	9.9
H248775		41.1	7.15	0.66	0.7	0.07	0.136	0.73	16.3	10.1	0.51	4760	5.89	0.03	3.6	40.6
H248776		16.40	7.24	0.22	0.8	0.04	0.117	0.62	18.3	10.7	1.43	2420	2.26	0.05	6.4	40.8

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H248744, H248746, H248747, H248748, H248757, H248758 AND H248771.**

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Project: RAU

Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H248741		320	19.4	17.7	<0.002	0.02	3.06	3.1	2	0.8	65.1	0.34	0.10	1.1	0.137	0.17
H248742		420	67.5	51.6	0.009	1.11	74.1	1.7	5	1.9	353	0.24	1.25	1.4	0.052	1.01
H248743		380	129.0	12.6	0.010	0.31	64.9	1.1	6	1.6	87.2	0.27	2.01	0.8	0.020	0.72
H248744		440	73.6	5.0	0.004	0.26	56.2	0.8	5	1.1	72.1	0.23	1.17	0.8	0.016	0.55
H248745		240	1.6	1.7	<0.002	0.01	0.17	<0.1	2	<0.2	52.9	<0.05	<0.05	0.3	<0.005	<0.02
H248746		360	200	9.4	0.005	0.30	53.4	1.1	8	2.2	92.9	0.16	2.09	0.6	0.030	0.86
H248747		200	6.4	2.6	0.002	0.02	2.33	1.4	4	2.0	91.3	<0.05	0.11	0.3	<0.005	0.06
H248748		430	55.1	20.2	0.002	0.02	4.98	1.8	3	4.7	93.3	0.20	0.27	0.5	0.063	0.19
H248749		100	114.5	1.1	0.004	0.01	5.29	0.6	3	0.7	179.5	<0.05	0.21	0.2	<0.005	0.09
H248750		120	115.5	1.6	0.006	0.02	7.78	0.5	3	0.3	131.0	<0.05	0.36	0.2	<0.005	0.10
H248751		110	92.4	1.1	0.002	0.03	12.90	0.4	3	0.4	128.0	<0.05	0.52	0.2	<0.005	0.04
H248752		130	17.6	2.1	<0.002	0.03	14.75	0.6	3	0.4	96.4	<0.05	0.51	0.2	0.005	0.04
H248753		260	43.6	9.1	0.002	0.02	11.05	1.5	3	1.8	96.9	0.08	0.45	0.4	0.026	0.13
H248754		220	119.0	1.7	<0.002	0.07	12.75	<0.1	3	0.4	140.0	<0.05	0.57	<0.2	0.008	<0.02
H248755		170	374	0.5	0.003	0.24	6.61	1.5	3	0.6	143.5	<0.05	0.28	0.3	<0.005	0.09
H248756		330	42.0	1.3	<0.002	0.09	30.9	1.9	4	0.5	44.3	0.08	1.86	0.3	0.011	0.08
H248757		330	54.4	0.9	<0.002	0.11	18.20	0.9	4	0.4	64.0	<0.05	1.15	0.2	0.014	0.09
H248758		260	15.1	33.1	0.014	>10.0	4.28	1.9	7	3.1	97.0	0.23	0.22	0.8	0.107	0.28
H248759		190	65.4	1.6	0.002	0.29	5.92	1.3	5	0.6	74.7	<0.05	0.45	0.2	0.014	0.08
H248760		240	1.8	1.5	<0.002	0.03	0.11	0.3	2	<0.2	53.4	<0.05	<0.05	<0.2	<0.005	<0.02
H248761		80	4.1	2.4	<0.002	3.49	1.73	0.6	3	0.4	78.7	<0.05	0.12	<0.2	0.008	0.03
H248762		60	4.5	0.9	<0.002	0.42	0.71	1.0	3	0.3	75.0	<0.05	0.06	<0.2	<0.005	0.08
H248763		220	71.8	8.7	<0.002	2.29	1.95	1.4	3	1.9	104.0	0.09	0.13	0.3	0.039	0.13
H248764		100	243	0.6	<0.002	7.78	1.83	1.5	3	1.8	85.7	<0.05	0.15	0.3	<0.005	0.03
H248765		100	559	0.6	<0.002	>10.0	2.40	1.2	4	2.5	96.0	0.05	0.45	0.5	0.007	0.02
H248766		100	74.7	0.5	<0.002	>10.0	2.73	1.1	3	0.6	117.0	0.06	0.26	0.5	0.005	<0.02
H248767		50	80.9	<0.1	<0.002	>10.0	24.3	<0.1	5	0.7	54.5	<0.05	1.80	0.3	0.011	<0.02
H248768		100	93.0	0.7	<0.002	>10.0	6.99	0.9	3	0.8	111.0	<0.05	0.51	0.2	<0.005	0.09
H248769		180	52.6	13.8	<0.002	>10.0	7.04	1.7	5	1.4	122.5	0.12	0.46	0.4	0.041	0.18
H248770		270	24.9	13.5	<0.002	8.68	7.27	1.6	7	1.9	117.0	0.15	0.27	0.5	0.067	0.13
H248771		70	7.0	8.0	0.002	>10.0	22.0	0.3	9	2.0	67.7	0.09	1.55	0.4	0.009	0.15
H248772		60	76.3	0.8	<0.002	2.44	26.4	0.8	3	5.5	112.0	<0.05	1.41	0.2	<0.005	0.12
H248773		50	4.0	2.9	<0.002	0.04	0.24	0.5	2	<0.2	153.0	0.06	0.09	0.2	0.017	0.02
H248774		110	9.6	7.5	<0.002	0.05	0.32	1.3	2	0.2	142.0	0.10	0.08	0.4	0.047	0.07
H248775		1260	129.0	50.2	<0.002	0.04	11.60	7.0	3	2.0	15.8	0.20	0.82	2.2	0.148	0.79
H248776		600	103.0	42.2	<0.002	0.02	3.80	5.6	2	1.9	20.7	0.37	0.39	2.1	0.170	0.53

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H248744, H248746, H248747, H248748, H248757, H248758 AND H248771.**

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

Finalized Date: 23-AUG-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
H248741		0.5	26	34.7	11.3	142	15.8
H248742		5.1	40	1220	9.1	414	29.6
H248743		2.6	22	1090	8.3	597	14.2
H248744		2.0	21	570	11.1	815	11.1
H248745		0.8	2	2.0	1.0	12	<0.5
H248746		2.4	20	740	14.0	885	19.8
H248747		0.7	9	185.0	20.1	147	2.1
H248748		0.6	18	217	22.3	173	19.7
H248749		0.3	8	590	26.5	423	1.2
H248750		0.3	5	650	21.4	401	1.3
H248751		0.3	6	202	20.3	355	1.2
H248752		0.3	4	142.5	18.4	99	2.8
H248753		0.8	10	238	22.8	234	11.5
H248754		0.4	6	45.7	17.8	447	2.9
H248755		0.8	7	369	18.8	1210	2.0
H248756		1.1	17	414	24.8	144	8.5
H248757		1.5	13	346	22.5	211	7.3
H248758		0.4	19	66.4	7.6	38	7.5
H248759		0.7	9	256	17.6	328	7.0
H248760		0.7	2	2.2	1.1	17	<0.5
H248761		0.3	7	21.3	5.2	20	3.0
H248762		0.4	7	120.0	7.0	25	1.9
H248763		0.8	14	90.2	11.2	195	9.3
H248764		1.6	8	2.9	15.7	912	3.3
H248765		7.1	7	51.3	11.7	688	4.7
H248766		1.2	8	47.0	14.2	443	4.7
H248767		7.5	13	2.7	6.2	246	3.8
H248768		1.2	6	4.4	13.7	376	2.8
H248769		1.7	11	2.7	16.5	240	8.7
H248770		1.0	19	15.3	13.1	268	16.0
H248771		0.6	8	37.8	4.9	12	5.3
H248772		0.4	2	1.2	13.4	518	1.4
H248773		0.1	3	0.2	3.4	43	3.1
H248774		0.2	6	0.4	4.8	123	6.2
H248775		2.4	53	149.0	28.8	912	27.7
H248776		1.5	44	10.2	29.6	827	33.6

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLES H248744, H248746, H248747, H248748, H248757, H248758 AND H248771.**

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-AUG-2009
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CERTIFICATE OF ANALYSIS VA09076284

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

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CERTIFICATE VA09076284

Project: RAU

P.O. No.: Batch 23

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H248741		1.96	0.17	0.34	0.97	1510	700	0.35	24.8	31.5	0.78	15.80	3.9	31	2.14	7.8
H248742		7.02	2.37	39.8	0.87	>10000	350	0.28	1110	1.06	1.74	14.95	2.6	17	1.95	10.7
H248743		7.94	4.69	55.4	0.48	>10000	2570	0.16	1240	0.73	2.22	9.84	2.4	10	1.47	10.3
H248744		4.36	2.32	3.23	0.36	>10000	2190	0.10	1200	0.64	2.06	9.22	3.9	4	1.78	8.8
H248745		4.06	<0.01	0.13	0.06	67	20	0.09	2.40	19.65	0.06	1.41	1.0	1	1.21	1.8
H248746		3.50	4.92	6.38	0.43	>10000	3290	0.19	1400	0.56	2.74	15.85	2.8	5	1.31	15.5
H248747		4.18	0.76	0.14	0.18	2850	440	0.12	93.8	19.25	1.39	13.85	0.9	<1	1.37	26.1
H248748		8.62	0.84	0.52	0.90	342	330	0.38	371	19.40	0.83	15.80	2.5	4	1.53	15.6
H248749		9.54	0.08	0.31	0.05	315	50	<0.05	215	19.30	3.09	23.1	0.8	<1	0.28	5.8
H248750		9.12	0.03	0.08	0.03	197	40	0.06	335	19.50	2.31	45.6	0.7	<1	0.56	2.6
H248751		4.36	0.03	0.10	0.03	181	40	0.05	513	19.20	2.09	36.0	0.7	<1	0.32	3.3
H248752		6.60	0.02	0.09	0.09	181	60	0.08	444	20.1	0.35	30.5	1.1	<1	0.24	2.8
H248753		7.90	0.09	0.22	0.38	634	170	0.19	322	18.55	1.00	16.10	3.0	<1	0.52	6.0
H248754		7.30	0.03	1.22	0.12	399	450	<0.05	504	17.90	2.09	28.3	1.3	<1	0.18	3.4
H248755		5.00	0.04	2.82	0.05	892	2300	0.05	179.5	16.70	7.46	64.2	2.2	<1	0.17	7.6
H248756		4.30	0.37	0.78	0.16	6300	220	0.19	1560	4.61	0.41	22.8	2.5	<1	0.13	6.7
H248757		6.04	0.23	1.00	0.24	4640	300	<0.05	898	9.50	0.72	13.50	4.7	<1	0.11	8.1
H248758		0.28	0.61	0.84	0.87	6320	140	0.30	109.5	13.50	0.15	32.6	5.5	15	1.94	32.6
H248759		4.74	0.42	0.65	0.19	3610	100	0.06	358	13.05	1.08	12.55	2.8	<1	0.20	4.9
H248760		3.68	<0.01	0.03	0.08	26	30	0.09	3.35	19.90	0.06	1.47	0.9	<1	0.16	1.9
H248761		7.00	0.03	0.09	0.13	727	20	0.10	71.9	16.70	0.07	5.02	1.7	<1	0.34	2.1
H248762		3.64	0.01	0.10	0.09	639	160	0.08	21.1	16.85	0.10	7.28	1.8	<1	0.26	3.3
H248763		7.24	0.02	0.43	0.38	720	120	0.17	81.4	17.60	0.71	27.7	2.8	2	0.68	10.0
H248764		3.98	0.02	1.70	0.11	216	170	0.13	120.5	14.50	4.23	23.8	6.9	<1	0.23	6.7
H248765		6.70	0.05	4.15	0.12	448	10	<0.05	326	12.40	4.43	15.05	12.6	<1	0.22	8.7
H248766		7.16	0.02	0.89	0.16	255	10	<0.05	180.0	14.85	1.75	43.0	10.8	<1	0.31	3.0
H248767		4.18	0.05	2.42	0.26	605	10	<0.05	1255	6.84	1.00	22.4	14.6	<1	0.10	8.2
H248768		8.32	0.02	0.75	0.10	464	10	<0.05	345	14.85	1.63	26.9	21.7	<1	0.41	7.5
H248769		13.30	0.10	0.62	0.37	793	30	0.14	375	13.20	0.93	23.3	4.6	2	1.49	11.1
H248770		11.20	0.36	0.32	0.58	1380	70	0.26	183.0	12.60	0.67	9.92	4.5	5	1.59	19.4
H248771		0.28	5.75	0.27	0.13	>10000	30	<0.05	482	8.17	0.04	35.5	1.7	11	0.72	39.9
H248772		4.22	3.65	0.55	0.03	262	10	<0.05	1750	14.60	1.51	7.88	4.3	1	0.43	24.0
H248773		3.86	0.01	0.05	0.17	35	60	0.06	3.17	35.1	0.21	3.02	1.3	5	0.23	1.7
H248774		3.16	<0.01	0.08	0.44	16	110	0.15	3.89	34.0	0.48	4.73	2.0	11	0.71	3.5
H248775		3.24	0.12	1.49	2.43	3310	1140	0.64	304	1.63	5.34	29.8	10.2	59	3.92	34.0
H248776		1.20	0.09	0.72	2.40	1730	590	0.62	56.3	15.10	3.63	30.8	9.0	47	5.22	21.9

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Project: RAU

Finalized Date: 23-AUG-2009
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CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248741		3.29	2.98	0.06	0.3	0.01	0.044	0.41	10.0	6.2	0.34	447	0.38	0.01	5.5	16.0
H248742		37.8	6.19	0.29	0.7	0.07	0.158	0.76	9.0	5.7	0.12	1140	3.69	0.02	1.4	11.5
H248743		45.3	4.71	0.59	0.3	0.11	0.160	0.22	4.9	2.8	0.11	1280	5.90	0.01	0.9	10.7
H248744		47.4	3.25	0.61	0.2	0.03	0.137	0.12	4.5	2.6	0.54	1720	5.24	0.01	0.7	14.0
H248745		0.51	0.22	<0.05	<0.1	<0.01	0.007	0.03	0.8	3.0	12.45	179	0.07	<0.01	0.3	1.9
H248746		37.1	3.93	0.40	0.5	0.03	0.143	0.16	7.8	2.8	0.35	1730	3.80	0.01	1.1	11.9
H248747		12.35	1.76	0.14	0.1	<0.01	0.148	0.03	5.5	2.8	5.31	7830	0.62	<0.01	0.2	2.2
H248748		7.94	7.52	0.13	0.5	<0.01	0.086	0.40	6.4	5.0	5.36	10050	0.39	0.01	3.1	9.5
H248749		6.91	0.70	0.11	0.1	<0.01	0.103	0.02	9.8	3.4	8.72	8960	0.27	<0.01	0.1	1.3
H248750		6.32	0.59	0.11	0.1	<0.01	0.063	0.02	23.3	3.7	9.50	6980	0.18	<0.01	0.1	0.7
H248751		6.13	0.54	0.10	0.1	<0.01	0.062	0.02	17.9	3.7	9.58	7460	0.19	<0.01	0.1	0.9
H248752		4.69	0.77	0.08	0.1	<0.01	0.054	0.04	15.4	4.0	9.95	5400	0.29	<0.01	0.3	2.2
H248753		9.35	2.66	0.12	0.3	<0.01	0.078	0.17	6.0	4.8	8.46	7250	0.66	0.01	1.3	6.9
H248754		7.09	0.80	0.08	0.1	<0.01	0.042	0.04	15.8	<0.2	9.94	8290	0.43	0.02	1.0	2.3
H248755		11.70	0.68	0.15	0.1	0.01	0.080	0.01	41.8	1.1	9.07	9230	0.54	0.02	0.3	3.6
H248756		44.3	1.29	0.48	0.2	<0.01	0.110	0.03	10.1	<0.2	2.04	4610	0.77	0.02	0.6	6.3
H248757		32.3	1.80	0.29	0.2	<0.01	0.120	0.02	5.1	<0.2	4.86	7180	2.89	0.03	0.6	12.7
H248758		15.70	3.69	0.21	0.2	<0.01	0.072	0.43	19.9	3.8	7.19	2180	15.45	0.03	3.7	22.8
H248759		21.1	1.45	0.24	0.2	<0.01	0.100	0.02	5.2	1.3	6.79	5250	0.37	0.02	0.7	7.9
H248760		0.55	0.28	<0.05	<0.1	<0.01	0.005	0.04	0.8	1.2	13.10	233	0.09	0.01	0.3	2.3
H248761		7.79	0.90	0.10	0.1	<0.01	0.030	0.02	2.7	1.9	10.40	2080	0.06	0.02	0.4	4.3
H248762		6.34	0.67	0.07	<0.1	<0.01	0.032	0.01	3.7	1.9	9.97	3250	0.06	0.01	0.2	5.4
H248763		6.39	2.52	0.08	0.2	<0.01	0.100	0.05	15.4	2.1	10.25	4980	0.19	0.03	1.5	8.6
H248764		11.80	0.95	0.14	0.1	0.01	0.120	0.01	14.0	1.3	8.22	6110	0.11	0.02	0.3	18.7
H248765		17.15	0.97	0.25	0.1	0.01	0.067	0.01	8.7	1.1	7.12	3980	0.10	0.02	0.6	23.3
H248766		11.05	1.24	0.17	0.2	<0.01	0.072	0.01	28.4	1.5	9.15	4820	0.06	0.02	0.7	19.8
H248767		32.1	1.92	0.27	0.1	<0.01	0.023	0.01	15.1	<0.2	3.78	2070	<0.05	0.03	0.4	32.8
H248768		12.85	0.82	0.18	0.1	<0.01	0.079	0.01	17.1	1.5	8.99	4700	0.08	0.02	0.2	53.5
H248769		14.20	2.39	0.21	0.2	0.01	0.066	0.17	13.8	2.2	7.80	4000	0.14	0.02	1.7	16.4
H248770		12.40	5.05	0.19	0.4	<0.01	0.092	0.17	4.3	3.3	8.11	3940	0.15	0.02	2.4	11.1
H248771		21.9	1.02	0.33	0.2	0.01	0.092	0.07	24.5	1.1	4.59	1360	10.65	0.01	1.4	13.6
H248772		9.65	0.47	0.14	<0.1	<0.01	0.076	0.01	2.7	1.6	8.75	5870	<0.05	0.01	0.2	8.9
H248773		0.26	0.42	<0.05	0.1	<0.01	<0.005	0.07	3.2	0.6	0.34	219	0.05	<0.01	0.9	5.7
H248774		0.51	0.99	<0.05	0.1	0.01	0.007	0.16	4.7	1.8	0.52	279	0.09	0.01	1.7	9.9
H248775		41.1	7.15	0.66	0.7	0.07	0.136	0.73	16.3	10.1	0.51	4760	5.89	0.03	3.6	40.6
H248776		16.40	7.24	0.22	0.8	0.04	0.117	0.62	18.3	10.7	1.43	2420	2.26	0.05	6.4	40.8

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CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method / Analyte / Units / LOR	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02
H248741		320	19.4	17.7	<0.002	0.02	3.06	3.1	2	0.8	65.1	0.34	0.10	1.1	0.137	0.17
H248742		420	67.5	51.6	0.009	1.11	74.1	1.7	5	1.9	353	0.24	1.25	1.4	0.052	1.01
H248743		380	129.0	12.6	0.010	0.31	64.9	1.1	6	1.6	87.2	0.27	2.01	0.8	0.020	0.72
H248744		440	73.6	5.0	0.004	0.26	56.2	0.8	5	1.1	72.1	0.23	1.17	0.8	0.016	0.55
H248745		240	1.6	1.7	<0.002	0.01	0.17	<0.1	2	<0.2	52.9	<0.05	<0.05	0.3	<0.005	<0.02
H248746		360	200	9.4	0.005	0.30	53.4	1.1	8	2.2	92.9	0.16	2.09	0.6	0.030	0.86
H248747		200	6.4	2.6	0.002	0.02	2.33	1.4	4	2.0	91.3	<0.05	0.11	0.3	<0.005	0.06
H248748		430	55.1	20.2	0.002	0.02	4.98	1.8	3	4.7	93.3	0.20	0.27	0.5	0.063	0.19
H248749		100	114.5	1.1	0.004	0.01	5.29	0.6	3	0.7	179.5	<0.05	0.21	0.2	<0.005	0.09
H248750		120	115.5	1.6	0.006	0.02	7.78	0.5	3	0.3	131.0	<0.05	0.36	0.2	<0.005	0.10
H248751		110	92.4	1.1	0.002	0.03	12.90	0.4	3	0.4	128.0	<0.05	0.52	0.2	<0.005	0.04
H248752		130	17.6	2.1	<0.002	0.03	14.75	0.6	3	0.4	96.4	<0.05	0.51	0.2	0.005	0.04
H248753		260	43.6	9.1	0.002	0.02	11.05	1.5	3	1.8	96.9	0.08	0.45	0.4	0.026	0.13
H248754		220	119.0	1.7	<0.002	0.07	12.75	<0.1	3	0.4	140.0	<0.05	0.57	<0.2	0.008	<0.02
H248755		170	374	0.5	0.003	0.24	6.61	1.5	3	0.6	143.5	<0.05	0.28	0.3	<0.005	0.09
H248756		330	42.0	1.3	<0.002	0.09	30.9	1.9	4	0.5	44.3	0.08	1.86	0.3	0.011	0.08
H248757		330	54.4	0.9	<0.002	0.11	18.20	0.9	4	0.4	64.0	<0.05	1.15	0.2	0.014	0.09
H248758		260	15.1	33.1	0.014	>10.0	4.28	1.9	7	3.1	97.0	0.23	0.22	0.8	0.107	0.28
H248759		190	65.4	1.6	0.002	0.29	5.92	1.3	5	0.6	74.7	<0.05	0.45	0.2	0.014	0.08
H248760		240	1.8	1.5	<0.002	0.03	0.11	0.3	2	<0.2	53.4	<0.05	<0.05	<0.2	<0.005	<0.02
H248761		80	4.1	2.4	<0.002	3.49	1.73	0.6	3	0.4	78.7	<0.05	0.12	<0.2	0.008	0.03
H248762		60	4.5	0.9	<0.002	0.42	0.71	1.0	3	0.3	75.0	<0.05	0.06	<0.2	<0.005	0.08
H248763		220	71.8	8.7	<0.002	2.29	1.95	1.4	3	1.9	104.0	0.09	0.13	0.3	0.039	0.13
H248764		100	243	0.6	<0.002	7.78	1.83	1.5	3	1.8	85.7	<0.05	0.15	0.3	<0.005	0.03
H248765		100	559	0.6	<0.002	>10.0	2.40	1.2	4	2.5	96.0	0.05	0.45	0.5	0.007	0.02
H248766		100	74.7	0.5	<0.002	>10.0	2.73	1.1	3	0.6	117.0	0.06	0.26	0.5	0.005	<0.02
H248767		50	80.9	<0.1	<0.002	>10.0	24.3	<0.1	5	0.7	54.5	<0.05	1.80	0.3	0.011	<0.02
H248768		100	93.0	0.7	<0.002	>10.0	6.99	0.9	3	0.8	111.0	<0.05	0.51	0.2	<0.005	0.09
H248769		180	52.6	13.8	<0.002	>10.0	7.04	1.7	5	1.4	122.5	0.12	0.46	0.4	0.041	0.18
H248770		270	24.9	13.5	<0.002	8.68	7.27	1.6	7	1.9	117.0	0.15	0.27	0.5	0.067	0.13
H248771		70	7.0	8.0	0.002	>10.0	22.0	0.3	9	2.0	67.7	0.09	1.55	0.4	0.009	0.15
H248772		60	76.3	0.8	<0.002	2.44	26.4	0.8	3	5.5	112.0	<0.05	1.41	0.2	<0.005	0.12
H248773		50	4.0	2.9	<0.002	0.04	0.24	0.5	2	<0.2	153.0	0.06	0.09	0.2	0.017	0.02
H248774		110	9.6	7.5	<0.002	0.05	0.32	1.3	2	0.2	142.0	0.10	0.08	0.4	0.047	0.07
H248775		1260	129.0	50.2	<0.002	0.04	11.60	7.0	3	2.0	15.8	0.20	0.82	2.2	0.148	0.79
H248776		600	103.0	42.2	<0.002	0.02	3.80	5.6	2	1.9	20.7	0.37	0.39	2.1	0.170	0.53

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

Project: RAU

Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076284

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H248741		0.5	26	34.7	11.3	142	15.8
H248742		5.1	40	1220	9.1	414	29.6
H248743		2.6	22	1090	8.3	597	14.2
H248744		2.0	21	570	11.1	815	11.1
H248745		0.8	2	2.0	1.0	12	<0.5
H248746		2.4	20	740	14.0	885	19.8
H248747		0.7	9	185.0	20.1	147	2.1
H248748		0.6	18	217	22.3	173	19.7
H248749		0.3	8	590	26.5	423	1.2
H248750		0.3	5	650	21.4	401	1.3
H248751		0.3	6	202	20.3	355	1.2
H248752		0.3	4	142.5	18.4	99	2.8
H248753		0.8	10	238	22.8	234	11.5
H248754		0.4	6	45.7	17.8	447	2.9
H248755		0.8	7	369	18.8	1210	2.0
H248756		1.1	17	414	24.8	144	8.5
H248757		1.5	13	346	22.5	211	7.3
H248758		0.4	19	66.4	7.6	38	7.5
H248759		0.7	9	256	17.6	328	7.0
H248760		0.7	2	2.2	1.1	17	<0.5
H248761		0.3	7	21.3	5.2	20	3.0
H248762		0.4	7	120.0	7.0	25	1.9
H248763		0.8	14	90.2	11.2	195	9.3
H248764		1.6	8	2.9	15.7	912	3.3
H248765		7.1	7	51.3	11.7	688	4.7
H248766		1.2	8	47.0	14.2	443	4.7
H248767		7.5	13	2.7	6.2	246	3.8
H248768		1.2	6	4.4	13.7	376	2.8
H248769		1.7	11	2.7	16.5	240	8.7
H248770		1.0	19	15.3	13.1	268	16.0
H248771		0.6	8	37.8	4.9	12	5.3
H248772		0.4	2	1.2	13.4	518	1.4
H248773		0.1	3	0.2	3.4	43	3.1
H248774		0.2	6	0.4	4.8	123	6.2
H248775		2.4	53	149.0	28.8	912	27.7
H248776		1.5	44	10.2	29.6	827	33.6

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 23-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076284

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

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Finalized Date: 13-AUG-2009
Account: RCM

CERTIFICATE VA09076283

Project: RAU

P.O. No.: Batch 22

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 13-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076283

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H248705		1.38	1.37	0.35	7.51	3770	4990	1.94	48.4	0.36	0.89	43.0	14.3	129	7.54	19.0
H248706		1.02	0.76	0.50	8.72	1635	4660	2.03	38.9	2.90	0.40	158.0	14.6	166	8.03	16.9
H248707		2.86	0.47	0.21	3.49	1020	1120	0.83	25.7	10.85	0.57	31.6	14.1	47	3.65	12.9
H248708		3.90	0.50	0.15	1.32	1170	570	0.39	12.80	17.10	0.66	19.30	7.1	16	1.16	13.1
H248709		0.98	0.76	0.52	9.30	921	7620	2.92	58.8	1.89	0.23	10.85	15.7	165	6.30	17.7
H248710		3.82	0.71	0.13	0.35	2020	310	0.15	27.4	9.98	1.16	6.67	3.4	8	0.43	6.6
H248711		2.98	0.11	0.11	0.54	825	150	0.24	3.43	17.50	0.74	6.33	2.4	6	2.50	5.1
H248712		3.26	7.74	0.87	0.91	>10000	540	0.29	481	1.62	8.24	20.7	4.2	15	0.18	40.5
H248713		3.28	3.58	0.42	0.25	>10000	480	0.09	290	9.57	3.02	10.85	2.6	<1	0.69	8.7
H248714		4.00	0.01	0.07	0.08	61	20	0.07	0.85	18.65	0.07	1.53	1.0	1	0.16	2.2
H248715		4.04	3.79	0.40	0.46	>10000	210	0.19	274	7.64	8.82	23.3	3.4	1	0.48	25.2
H248716		1.62	2.04	1.07	0.39	>10000	440	0.20	4990	0.86	10.95	45.0	2.7	1	0.12	22.2
H248717		0.80	1.59	1.29	0.43	>10000	480	0.20	8210	0.83	9.99	63.8	3.3	4	0.12	30.3
H248718		1.52	1.36	0.86	0.08	>10000	210	<0.05	1740	0.85	2.69	28.9	1.3	<1	0.08	4.2
H248719		3.98	<0.01	0.10	0.09	33	20	0.08	1.44	19.55	0.09	1.56	1.0	1	0.18	3.0
H248720		4.62	7.42	0.24	0.05	>10000	10	<0.05	521	9.63	0.24	7.69	1.1	<1	0.32	0.2
H248721		3.24	3.09	0.10	0.07	>10000	10	0.05	258	12.10	0.08	7.24	1.3	2	0.33	7.7
H248722		3.62	0.17	0.07	1.62	1710	390	0.60	12.05	14.70	1.21	11.40	6.8	11	4.78	16.8
H248723		2.92	0.26	0.10	0.75	2610	180	0.36	40.2	14.45	2.08	8.90	5.6	7	1.81	11.3
H248724		0.28	5.53	0.19	0.13	>10000	30	0.06	482	8.66	0.05	35.0	2.0	14	0.76	47.3
H248725		4.98	0.12	0.07	1.33	187	250	0.63	7.38	16.45	0.33	14.10	4.0	20	7.43	5.8
H248726		4.60	<0.01	0.01	4.61	58	960	1.10	0.66	19.60	0.09	69.0	25.3	29	12.30	28.2
H248727		4.32	<0.01	0.02	5.00	37	900	1.65	3.25	13.50	0.11	71.1	20.3	34	12.00	21.2
H248728		6.00	0.04	0.80	3.22	1665	150	1.27	361	6.09	0.16	24.5	12.2	31	13.50	10.5
H248729		7.30	0.30	3.02	0.38	2490	20	0.21	398	7.73	1.97	8.35	12.6	8	0.72	15.2
H248730		5.64	0.05	0.45	2.06	838	110	1.04	132.0	11.40	0.78	21.0	12.5	12	5.31	20.7
H248731		2.58	0.03	0.01	6.76	413	1040	3.87	93.1	5.36	0.09	91.7	15.8	47	14.70	34.6
H248732		3.58	<0.01	0.02	2.44	28	920	1.06	2.86	22.2	0.09	27.7	12.2	15	18.35	19.5
H248733		0.44	1.29	0.56	1.30	>10000	1940	0.54	839	0.49	2.82	12.05	3.1	38	1.19	45.7
H248734		5.70	<0.01	1.70	0.13	>10000	30	0.07	371	13.20	0.81	57.3	1.9	8	0.72	21.5
H248735		0.28	1.49	<0.01	5.57	76	1070	1.35	0.49	19.25	0.10	80.2	42.6	37	22.2	18.7
H248736		3.38	<0.01	<0.01	7.06	161	1820	1.82	0.87	13.75	0.11	90.5	71.6	47	25.3	29.0
H248737		5.08	0.01	0.40	5.99	170	490	1.73	0.77	11.70	0.10	79.3	57.6	51	13.35	104.0
H248738		4.38	0.06	1.30	6.52	209	540	2.08	0.39	5.93	1.87	83.7	54.5	65	9.50	92.3
H248739		4.16	<0.01	0.82	0.29	18	730	0.28	0.28	19.05	0.53	4.74	1.4	9	0.57	16.3
H248740		5.64	0.07	0.42	1.06	427	870	0.42	1.72	24.9	0.64	12.75	4.0	24	1.50	12.9

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Project: RAU

Finalized Date: 13-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076283

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248705		17.60	35.7	0.28	2.8	0.01	0.063	4.11	22.0	28.2	2.74	766	1.52	0.10	19.3	35.3
H248706		8.59	40.2	0.27	7.0	0.01	0.054	5.03	89.7	33.0	6.05	504	1.15	0.10	89.8	26.3
H248707		6.92	12.25	0.15	1.6	<0.01	0.026	1.53	17.7	14.6	8.25	1040	0.66	0.03	25.0	32.9
H248708		7.86	4.72	0.13	0.7	<0.01	0.031	0.49	11.1	4.9	7.23	2700	0.91	0.02	9.9	17.9
H248709		10.50	48.0	0.18	4.8	0.01	0.076	5.00	5.1	24.1	4.03	624	1.11	0.12	67.9	38.6
H248710		14.50	2.02	0.22	0.2	0.1	0.074	0.10	3.2	0.8	2.67	2410	2.13	0.02	1.5	9.7
H248711		3.83	2.61	0.08	0.4	<0.01	0.021	0.21	3.9	3.2	11.30	1200	0.36	0.02	3.9	6.1
H248712		43.1	8.01	0.68	0.7	<0.1	0.297	0.05	10.5	0.7	1.81	2370	1.73	0.05	2.0	16.4
H248713		24.0	1.89	0.29	0.2	<0.1	0.133	0.06	4.6	0.8	3.83	3870	0.80	0.02	0.5	7.3
H248714		0.47	0.28	<0.05	<0.1	<0.01	<0.005	0.03	0.9	1.0	12.40	174	0.08	0.01	0.3	1.2
H248715		30.3	2.58	0.30	0.2	<0.1	0.154	0.07	11.7	0.6	4.43	3860	1.06	0.02	0.8	16.0
H248716		45.9	2.80	0.68	0.2	<0.1	0.228	0.03	25.3	1.6	1.01	2510	2.43	0.02	0.6	9.9
H248717		46.1	4.02	0.74	0.3	<1	0.287	0.05	39.9	3.7	1.06	2450	2.85	0.02	0.6	12.1
H248718		45.1	0.90	0.59	0.1	<0.1	0.197	0.02	15.4	1.6	2.06	2900	1.41	0.01	0.4	4.3
H248719		0.43	0.29	<0.05	<0.1	<0.01	0.006	0.04	0.8	1.2	12.60	178	0.13	<0.01	0.3	1.7
H248720		23.0	0.64	0.37	0.1	<0.1	0.145	0.02	3.2	2.0	5.21	2360	0.23	0.01	0.3	2.2
H248721		15.00	0.62	0.22	0.1	<0.1	0.158	0.03	2.9	1.9	6.84	2510	0.13	0.01	0.4	3.7
H248722		5.40	7.47	0.09	0.8	<0.01	0.030	0.83	6.2	13.5	10.15	1250	0.17	0.03	5.0	22.0
H248723		8.15	4.12	0.13	0.4	<0.1	0.049	0.37	4.9	5.3	9.42	1700	0.22	0.01	2.8	15.7
H248724		22.9	1.11	0.34	0.1	<0.1	0.089	0.08	23.6	1.6	4.81	1460	12.10	0.01	1.4	14.9
H248725		3.40	5.95	0.06	0.7	<0.01	0.016	0.80	9.5	9.0	10.30	1190	0.30	0.02	7.2	14.0
H248726		4.23	14.85	0.13	0.7	<0.01	0.059	2.59	34.0	17.8	0.99	949	0.27	0.10	30.3	54.9
H248727		6.27	17.75	0.15	0.8	<0.01	0.068	2.76	35.4	23.7	1.40	750	0.32	0.15	30.4	54.2
H248728		21.4	15.40	0.28	0.6	<0.01	0.046	1.70	11.5	11.7	2.17	985	0.35	0.13	18.9	40.3
H248729		29.0	2.97	0.32	0.2	<0.1	0.119	0.09	3.8	1.6	3.83	3060	0.24	0.02	1.7	18.5
H248730		14.70	11.95	0.19	0.7	<0.1	0.062	1.01	10.2	7.0	5.56	3040	0.39	0.06	10.4	29.1
H248731		11.15	37.1	0.21	2.2	0.01	0.098	4.10	50.4	37.9	1.99	1020	0.51	0.09	40.5	76.6
H248732		4.28	10.50	0.08	0.4	<0.01	0.061	1.67	13.8	17.4	1.68	1540	0.20	0.04	17.5	34.7
H248733		26.2	9.01	0.32	0.9	0.01	0.203	0.36	6.1	5.1	0.10	544	3.15	0.04	5.1	13.5
H248734		17.65	1.08	0.23	0.1	<0.1	0.111	0.07	37.1	2.1	7.44	2370	6.51	0.01	0.6	8.1
H248735		4.64	17.90	0.14	0.7	<0.01	0.060	2.70	39.7	25.0	1.66	1110	0.15	0.16	37.0	89.7
H248736		3.74	22.6	0.14	0.9	<0.01	0.065	3.63	44.6	28.8	1.89	872	0.26	0.08	40.4	117.5
H248737		4.29	19.05	0.15	0.8	<0.01	0.029	2.44	39.5	21.6	3.24	764	22.1	0.12	28.4	123.0
H248738		10.45	21.2	0.25	1.8	0.02	0.039	2.71	40.1	16.2	2.93	423	28.7	0.06	31.0	159.5
H248739		0.60	0.93	<0.05	<0.1	<0.01	0.010	0.11	3.1	2.4	12.25	605	2.22	0.01	1.2	11.4
H248740		1.63	3.08	0.05	0.4	<0.01	0.023	0.45	8.0	5.4	2.14	733	0.37	0.02	5.0	16.2

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 13-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076283

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H248705		1840	11.2	93.7	<0.002	1.09	3.15	13.1	1	5.4	136.0	1.07	0.18	8.6	0.251	1.41
H248706		1500	6.6	135.5	<0.002	0.38	1.80	17.7	1	8.3	72.3	4.81	0.18	14.6	0.980	1.50
H248707		810	5.4	47.4	<0.002	0.06	1.85	6.2	<1	2.7	45.3	1.31	0.09	4.2	0.266	0.50
H248708		380	7.4	15.0	<0.002	0.02	1.52	3.4	1	1.2	44.1	0.50	0.06	1.7	0.105	0.26
H248709		2040	10.3	94.3	<0.002	0.73	2.82	13.2	2	10.0	95.3	3.42	0.21	9.6	0.689	1.45
H248710		320	10.9	4.4	<0.002	0.03	4.03	2.1	4	0.4	22.7	0.07	0.07	0.3	0.020	0.29
H248711		280	2.4	26.0	<0.002	0.01	0.89	1.2	<1	1.0	48.1	0.20	0.07	0.5	0.052	0.24
H248712		720	274	3.8	0.004	0.10	30.1	4.8	17	1.4	34.7	0.10	0.58	1.5	0.039	0.51
H248713		240	278	6.8	0.020	0.07	12.35	1.0	7	0.7	61.8	<0.05	0.34	0.2	0.016	0.47
H248714		260	1.8	1.3	<0.002	0.01	0.09	0.4	<1	<0.2	51.3	<0.05	<0.05	<0.2	<0.005	<0.02
H248715		310	134.5	8.6	0.004	0.07	14.05	1.7	6	0.5	44.0	<0.05	0.22	0.3	0.015	0.23
H248716		520	1860	2.7	0.012	0.18	77.5	1.7	13	1.4	28.3	<0.05	5.45	0.6	0.011	0.34
H248717		660	3720	3.2	0.027	0.32	119.0	2.3	20	2.1	35.7	0.05	8.96	0.9	0.012	0.45
H248718		250	200	1.1	0.004	0.33	46.0	0.4	10	0.6	26.9	0.19	1.34	0.2	<0.005	0.20
H248719		250	6.2	1.6	<0.002	0.02	0.26	0.3	2	<0.2	51.5	<0.05	<0.05	<0.2	<0.005	<0.02
H248720		90	9.8	2.2	<0.002	>10.0	21.0	0.2	7	0.8	71.4	<0.05	0.51	<0.2	<0.005	0.17
H248721		80	6.1	2.6	<0.002	>10.0	14.70	0.6	7	0.5	90.7	<0.05	0.81	<0.2	0.005	0.09
H248722		500	5.0	35.3	<0.002	1.54	1.34	3.6	3	1.2	60.3	0.30	0.05	0.9	0.173	0.34
H248723		460	15.0	21.4	<0.002	3.14	2.55	2.0	3	0.9	71.8	0.15	0.10	0.5	0.076	0.18
H248724		70	6.0	9.3	0.003	>10.0	22.7	0.5	10	2.0	62.9	0.07	1.52	0.3	0.009	0.15
H248725		1120	3.2	76.9	<0.002	2.46	1.13	3.0	2	1.4	67.7	0.44	0.07	1.4	0.168	0.60
H248726		2490	2.3	106.0	<0.002	0.07	0.99	11.8	2	2.3	153.0	1.70	<0.05	2.9	1.115	0.48
H248727		2540	4.0	114.0	<0.002	0.42	0.54	12.5	3	4.3	121.0	1.88	<0.05	3.2	1.115	0.43
H248728		810	23.2	152.0	<0.002	>10.0	5.19	7.4	3	8.2	60.0	1.09	0.56	2.0	0.548	0.88
H248729		350	120.0	11.7	0.002	>10.0	8.04	1.8	4	2.2	57.6	0.10	0.67	<0.2	0.040	0.19
H248730		1080	18.1	98.1	0.002	>10.0	2.35	6.1	3	8.3	86.3	0.63	0.24	1.1	0.303	0.57
H248731		1930	5.6	251	<0.002	>10.0	2.88	15.3	2	35.6	51.8	2.45	0.26	3.9	1.205	1.27
H248732		800	2.8	143.0	<0.002	0.90	0.29	6.3	3	7.7	171.5	1.02	0.05	1.4	0.556	0.83
H248733		290	55.5	16.7	0.005	0.08	61.6	2.0	11	2.2	17.0	0.32	0.77	1.5	0.078	0.27
H248734		130	14.4	9.3	0.006	>10.0	22.4	0.6	6	1.2	99.6	<0.05	0.87	0.5	0.010	0.09
H248735		2680	2.1	123.0	<0.002	0.12	0.88	14.4	2	3.0	120.5	2.14	<0.05	3.3	1.290	1.14
H248736		2220	3.3	181.0	<0.002	0.40	2.71	17.8	3	4.8	87.5	2.55	<0.05	4.1	1.405	1.66
H248737		2400	9.8	96.8	0.064	2.18	8.93	15.0	6	2.4	69.1	1.81	0.11	3.5	0.986	2.44
H248738		2280	31.1	101.0	0.084	>10.0	17.75	16.4	10	2.5	36.6	1.94	0.12	4.5	1.075	2.25
H248739		1240	11.1	8.7	0.016	0.45	7.53	1.2	3	0.2	82.4	0.09	0.06	0.3	0.026	0.17
H248740		320	17.1	20.0	<0.002	0.03	2.01	3.3	3	0.7	107.5	0.27	<0.05	1.1	0.116	0.17

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 13-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076283

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H248705		3.8	100	46.1	11.6	459	129.5
H248706		4.6	155	18.0	18.1	92	298
H248707		1.7	46	9.0	12.1	101	76.3
H248708		1.2	20	73.6	14.1	135	34.5
H248709		3.3	141	18.0	12.3	57	212
H248710		1.0	11	26.4	8.6	252	9.4
H248711		0.5	9	6.4	5.6	92	17.9
H248712		4.6	30	500	19.0	852	33.6
H248713		2.6	9	2630	13.1	302	9.6
H248714		0.6	2	18.0	1.0	15	0.5
H248715		3.1	14	395	14.8	1180	8.4
H248716		7.6	16	1230	15.0	1260	10.5
H248717		8.3	19	2470	15.6	1300	13.9
H248718		3.0	13	274	15.2	362	2.9
H248719		0.5	2	0.4	1.0	20	<0.5
H248720		1.6	6	158.0	7.7	60	2.1
H248721		0.2	10	110.5	8.9	36	2.6
H248722		0.7	38	7.2	4.7	248	32.8
H248723		0.7	27	33.2	6.2	308	18.9
H248724		0.5	6	37.0	4.5	13	5.1
H248725		0.7	41	5.8	7.6	78	31.2
H248726		0.6	124	4.3	13.4	26	33.1
H248727		0.7	123	4.0	15.5	38	30.6
H248728		2.6	65	24.1	7.4	56	26.0
H248729		0.5	17	102.5	9.0	534	9.4
H248730		0.9	51	136.0	12.4	217	26.5
H248731		1.1	116	53.1	14.9	43	82.3
H248732		0.3	48	13.2	12.6	28	17.1
H248733		2.5	45	470	10.2	346	35.4
H248734		1.5	6	211	7.4	148	3.0
H248735		0.6	142	2.0	16.6	39	34.4
H248736		0.8	172	2.8	17.7	54	37.4
H248737		3.1	322	1.5	18.1	40	33.2
H248738		5.6	498	2.5	19.5	603	66.9
H248739		18.2	50	1.3	6.0	177	5.1
H248740		0.4	20	2.6	8.0	152	16.0

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 13-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09076283

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE VA09075566

Project: RAU

P.O. No.: Batch 21

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09075566

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H248669		3.38	0.03	0.18	0.26	38	150	0.12	0.10	31.5	0.25	5.77	1.3	11	0.16	2.2
H248670		4.24	0.01	0.05	0.56	49	250	0.17	0.08	29.0	0.10	8.15	2.3	16	0.35	3.2
H248671		3.04	0.01	0.09	0.93	90	500	0.24	0.31	30.7	0.14	10.80	2.7	28	0.67	5.6
H248672		0.54	0.22	0.27	0.94	1080	1180	0.32	25.6	20.9	0.91	21.9	23.4	27	0.71	16.2
H248673		1.98	0.07	1.30	9.69	1605	2940	2.16	71.6	0.59	0.37	79.9	11.5	362	4.63	28.4
H248674		0.76	0.40	2.28	2.12	3330	930	0.77	53.4	0.54	1.02	71.5	29.4	70	0.39	67.6
H248675		0.28	1.39	1.64	0.07	>10000	30	<0.05	348	12.75	0.78	51.5	1.5	6	0.58	16.9
H248676		0.52	0.05	0.22	1.47	1100	450	0.56	25.7	14.65	0.47	27.4	12.9	29	0.75	11.0
H248677		3.44	0.05	0.11	2.34	304	370	0.51	4.35	16.70	0.23	15.05	7.7	34	3.99	12.9
H248678		2.80	0.09	0.15	0.86	604	250	0.34	16.55	17.70	0.11	10.50	4.9	25	4.33	8.2
H248679		1.54	0.06	0.32	0.37	680	170	0.16	28.9	17.30	0.11	7.97	2.5	25	0.77	2.1
H248680		2.48	0.22	0.39	0.24	2130	310	0.13	219	13.00	0.10	8.95	2.3	20	0.32	2.6
H248681		2.06	0.46	1.67	0.19	2790	170	0.11	222	1.21	0.09	12.55	2.5	11	0.33	8.0
H248682		1.28	0.62	0.29	0.17	6510	340	0.10	302	3.44	0.09	13.75	2.1	22	0.13	3.8
H248683		1.68	1.14	0.27	0.07	6290	180	0.11	194.5	8.24	0.05	7.32	0.9	1	0.09	2.9
H248684		1.98	0.39	0.20	0.30	3620	200	0.16	96.4	9.45	0.12	10.40	1.5	14	0.45	2.0
H248685		2.46	0.53	0.32	0.61	1970	240	0.29	117.0	10.00	0.28	259	2.2	4	1.52	6.9
H248686		0.34	0.14	2.33	0.42	364	260	0.31	32.0	14.00	0.29	14.45	1.8	25	1.40	5.4
H248687		2.26	0.22	0.22	0.90	1200	280	0.37	25.9	14.55	0.08	10.30	2.3	10	3.33	6.0
H248688		0.26	0.56	0.77	0.76	5810	130	0.26	98.2	12.80	0.15	32.5	4.9	14	1.77	29.8
H248689		1.28	1.48	2.73	5.30	8360	7200	1.71	218	0.75	8.27	60.4	18.8	83	3.84	23.7
H248690		0.52	1.77	9.81	0.85	5480	820	0.78	927	15.70	5.59	66.5	7.1	13	1.61	20.0
H248691		1.38	26.6	0.80	0.40	>10000	330	0.33	1095	4.73	0.30	48.0	1.7	18	1.10	6.6
H248692		1.40	6.19	6.08	0.40	>10000	320	0.44	334	3.60	0.33	13.30	1.7	9	0.99	15.4
H248693		4.08	0.01	0.01	0.06	78	20	0.07	1.11	20.1	0.07	1.81	0.9	1	0.21	1.1
H248694		1.84	0.95	1.88	0.24	6650	260	0.20	40.6	16.65	0.44	13.35	1.3	11	0.42	8.1
H248695		3.84	4.17	0.23	0.34	>10000	4080	0.23	208	8.17	1.20	13.60	1.9	2	0.46	4.0
H248696		3.68	11.15	3.55	0.58	>10000	740	0.27	433	2.85	4.74	20.4	2.0	11	0.56	55.5
H248697		1.74	6.22	3.28	0.63	>10000	1010	0.28	334	3.09	4.93	22.3	1.9	5	0.54	56.0
H248698		3.70	3.68	0.50	0.49	8570	520	0.25	164.0	9.35	5.14	15.20	2.5	10	0.48	18.2
H248699		0.96	0.21	0.16	0.05	1200	160	0.08	24.5	12.70	1.40	63.0	0.6	4	0.14	1.5
H248700		2.38	0.21	0.04	0.23	331	180	0.23	2.18	18.75	0.36	6.14	1.1	4	0.38	1.8
H248701		3.00	0.25	0.05	0.22	1500	220	0.18	3.16	18.20	1.14	7.55	1.3	4	0.48	4.8
H248702		3.04	1.11	0.15	0.59	3270	420	0.42	25.4	14.10	1.89	16.60	7.8	20	1.05	5.3
H248703		2.92	9.16	0.25	3.52	4160	1450	0.92	58.2	10.80	1.52	22.5	16.2	37	4.61	14.5
H248704		4.04	0.01	0.01	0.09	6	20	0.09	0.11	18.55	0.07	1.78	1.2	1	0.21	4.8

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09075566

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248669		0.45	0.77	0.07	0.1	0.01	0.006	0.10	3.4	1.0	1.10	217	0.32	0.01	1.4	1.9
H248670		0.89	1.38	0.05	0.3	<0.01	0.008	0.24	4.4	2.6	2.35	302	0.30	0.01	3.3	5.3
H248671		1.27	2.42	0.05	0.4	<0.01	0.010	0.42	5.8	3.4	1.24	342	0.49	0.02	4.8	10.8
H248672		14.90	4.36	0.24	0.5	0.02	0.043	0.24	9.6	2.0	0.34	8750	5.30	0.04	4.2	100.5
H248673		11.55	35.4	0.31	0.7	0.01	0.083	4.53	36.4	17.0	0.77	669	6.19	0.11	7.7	60.6
H248674		31.5	13.30	0.43	1.1	0.01	0.080	0.04	37.2	2.7	2.04	2420	4.40	0.12	2.6	249
H248675		16.30	0.94	0.32	0.1	0.01	0.082	0.04	31.0	1.5	6.86	2170	5.28	0.01	0.6	6.3
H248676		8.46	6.35	0.18	0.7	0.01	0.036	0.04	13.0	4.6	9.17	2150	1.05	0.09	5.3	84.1
H248677		3.69	7.33	0.09	0.7	0.01	0.038	0.40	7.8	7.2	7.03	1360	0.47	0.52	5.4	27.1
H248678		5.81	4.22	0.12	0.5	<0.01	0.032	0.30	5.7	4.5	7.93	1540	0.91	0.04	4.0	18.2
H248679		5.29	2.28	0.10	0.4	<0.01	0.028	0.02	4.3	2.4	10.10	1420	0.91	0.03	2.1	8.5
H248680		10.65	1.90	0.18	0.2	<0.01	0.034	<0.01	4.4	1.7	7.61	1940	1.47	0.02	0.8	8.6
H248681		13.90	1.60	0.24	0.2	0.01	0.021	<0.01	6.7	1.1	2.01	790	3.26	0.02	0.4	10.1
H248682		22.5	1.56	0.34	0.2	<0.01	0.044	<0.01	6.4	1.3	7.07	2540	1.93	0.02	0.4	9.0
H248683		25.5	0.72	0.32	0.1	0.01	0.050	<0.01	4.0	1.6	6.49	1080	2.35	0.02	0.4	3.5
H248684		22.5	2.05	0.27	0.2	<0.01	0.037	<0.01	5.5	2.9	6.16	1340	2.23	0.02	1.2	5.8
H248685		18.95	4.13	0.27	0.4	<0.01	0.041	0.11	163.5	3.0	5.54	1280	1.91	0.03	1.2	9.2
H248686		7.10	2.81	0.10	0.3	0.01	0.046	0.09	8.0	4.4	8.88	2180	1.61	0.02	2.0	6.5
H248687		7.99	5.46	0.16	0.6	0.01	0.039	0.17	5.6	6.9	9.80	2050	0.95	0.02	5.6	10.4
H248688		14.25	3.53	0.21	0.3	0.01	0.069	0.36	17.5	3.9	6.65	2000	14.65	0.02	3.1	19.3
H248689		23.0	17.15	0.30	2.8	0.06	0.201	1.88	27.7	9.9	1.29	2950	2.06	0.07	3.8	61.7
H248690		8.94	7.52	0.84	0.6	0.03	0.338	0.28	29.9	3.4	6.90	11550	5.59	0.03	1.9	18.8
H248691		34.7	4.55	1.00	0.2	0.01	0.145	0.10	29.1	3.3	3.04	2420	1.24	0.02	0.8	6.8
H248692		19.95	5.57	0.67	0.2	<0.01	0.233	0.13	6.5	1.1	0.75	1630	12.15	0.01	0.3	6.4
H248693		0.44	0.33	<0.05	<0.1	<0.01	<0.005	0.02	0.8	1.3	12.95	200	0.07	0.01	0.4	0.8
H248694		11.65	1.57	0.13	0.1	<0.01	0.062	0.07	7.5	1.5	8.19	1800	4.47	0.02	0.8	3.6
H248695		29.4	2.13	0.28	0.2	0.01	0.077	0.12	7.3	1.2	3.82	1970	0.56	0.02	0.9	7.4
H248696		37.6	3.50	0.41	0.2	0.02	0.233	0.11	11.0	1.2	1.30	1430	1.12	0.01	0.7	8.0
H248697		38.7	3.60	0.39	0.2	0.02	0.257	0.10	12.4	1.4	1.42	1550	0.96	0.02	0.7	7.7
H248698		28.6	2.25	0.25	0.2	0.01	0.107	0.13	7.9	1.4	4.76	1900	1.14	0.02	1.1	8.5
H248699		6.22	0.56	0.11	<0.1	<0.01	0.058	<0.01	39.8	0.8	5.16	1860	0.18	0.01	0.1	0.5
H248700		1.71	1.39	0.05	0.2	<0.01	0.018	0.07	4.1	2.3	12.15	688	0.13	0.01	1.4	2.3
H248701		4.35	1.33	0.09	0.1	<0.01	0.051	0.06	4.0	1.8	11.40	1390	0.21	0.01	0.8	2.6
H248702		15.05	3.09	0.17	0.4	<0.01	0.055	0.21	8.4	2.4	8.66	2430	0.78	0.02	2.4	16.6
H248703		15.20	10.50	0.20	1.6	0.01	0.039	1.15	10.8	16.2	7.26	1980	0.64	0.03	14.5	44.2
H248704		0.38	0.35	<0.05	<0.1	<0.01	0.005	0.04	0.8	1.5	11.95	172	0.08	0.01	0.4	2.2

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Project: RAU

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09075566

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H248669		30	2.9	4.1	<0.002	0.13	0.57	1.3	2	<0.2	261	0.06	<0.05	0.2	0.027	0.07
H248670		40	3.2	8.2	<0.002	0.06	0.46	2.0	2	0.2	204	0.15	<0.05	0.4	0.073	0.13
H248671		60	4.2	14.2	<0.002	0.02	0.92	3.2	2	0.4	251	0.24	<0.05	0.6	0.107	0.18
H248672		840	6.0	13.6	<0.002	0.02	2.31	4.7	1	0.9	29.0	0.21	0.16	1.2	0.083	0.90
H248673		950	23.8	139.5	<0.002	0.03	7.22	30.2	2	6.2	24.2	0.47	0.39	5.8	0.237	0.99
H248674		3950	19.8	3.9	<0.002	0.05	5.41	7.8	2	1.7	22.1	0.12	0.32	8.7	0.067	0.38
H248675		120	14.4	7.0	0.003	>10.0	19.25	0.5	5	1.0	86.5	<0.05	0.78	0.3	0.008	0.10
H248676		970	6.2	6.3	<0.002	0.05	2.18	4.9	2	1.5	39.0	0.28	0.13	2.0	0.104	0.28
H248677		540	3.7	35.7	<0.002	0.03	0.85	6.8	1	2.2	100.5	0.30	0.06	1.1	0.177	0.39
H248678		330	3.3	45.2	<0.002	0.02	1.21	2.5	2	1.0	38.3	0.21	0.10	0.8	0.083	0.46
H248679		220	3.0	7.8	<0.002	0.01	1.18	1.7	2	0.6	57.7	0.11	0.08	0.2	0.041	0.13
H248680		220	6.1	1.4	<0.002	0.02	3.01	1.4	3	0.5	36.1	<0.05	0.29	<0.2	0.020	0.20
H248681		350	5.3	1.0	<0.002	0.02	2.87	1.3	3	0.6	6.4	<0.05	0.18	0.4	0.008	0.09
H248682		330	7.3	0.7	<0.002	0.04	5.68	2.0	3	0.4	12.2	<0.05	0.29	<0.2	0.008	0.23
H248683		230	6.8	0.4	<0.002	0.06	3.74	1.3	4	0.2	26.9	<0.05	0.27	<0.2	<0.005	0.07
H248684		250	5.8	1.9	0.005	0.04	2.70	1.1	3	0.5	25.2	0.05	0.25	<0.2	0.013	0.22
H248685		340	8.8	11.5	<0.002	0.04	3.85	1.5	3	0.7	27.3	0.05	0.28	1.1	0.022	0.21
H248686		330	6.2	10.5	<0.002	0.02	1.17	1.8	2	0.5	49.4	0.10	0.13	0.8	0.027	0.17
H248687		360	4.0	17.9	<0.002	0.02	1.37	2.2	2	1.1	41.5	0.31	0.12	1.5	0.066	0.45
H248688		240	13.0	28.2	0.013	>10.0	4.06	1.8	6	2.8	82.3	0.16	0.22	0.5	0.082	0.26
H248689		1660	219	115.5	<0.002	0.19	4.69	11.0	8	10.0	85.2	0.21	0.53	4.6	0.194	0.99
H248690		590	297	38.6	0.007	0.03	9.63	2.2	8	12.2	82.8	0.12	1.27	0.4	0.060	0.76
H248691		200	21.1	10.9	0.003	0.15	36.3	2.2	8	1.5	64.3	<0.05	1.46	0.6	0.017	0.58
H248692		320	15.0	10.4	0.017	0.09	10.85	2.7	6	1.7	67.0	<0.05	0.79	0.3	0.009	0.51
H248693		390	1.3	1.7	<0.002	0.01	0.08	0.3	2	<0.2	50.0	<0.05	<0.05	<0.2	<0.005	<0.02
H248694		150	8.1	6.2	0.005	0.03	3.80	1.4	2	0.7	62.1	<0.05	0.43	<0.2	0.014	0.23
H248695		140	73.7	9.7	<0.002	0.15	8.11	2.2	6	0.7	56.4	<0.05	0.29	<0.2	0.015	0.22
H248696		270	797	10.1	<0.002	0.10	16.15	3.5	6	0.7	23.2	<0.05	0.73	0.7	0.010	0.31
H248697		300	760	9.1	<0.002	0.11	15.30	3.8	7	0.7	28.6	<0.05	0.82	1.0	0.011	0.28
H248698		260	194.5	9.5	<0.002	0.06	7.71	2.4	4	0.6	31.3	0.05	0.20	<0.2	0.018	0.29
H248699		70	66.2	1.5	<0.002	0.01	0.85	2.1	2	<0.2	59.7	<0.05	0.05	<0.2	<0.005	0.08
H248700		170	7.8	5.5	<0.002	0.01	0.32	0.7	2	0.4	56.7	0.07	<0.05	<0.2	0.022	0.06
H248701		180	10.7	6.6	<0.002	0.01	0.64	1.3	2	0.3	66.8	<0.05	0.07	<0.2	0.015	0.12
H248702		540	17.5	16.7	<0.002	0.03	2.58	2.7	3	1.0	51.7	0.12	0.12	0.5	0.038	0.26
H248703		830	13.2	63.7	<0.002	0.21	3.42	5.3	3	2.4	47.8	0.82	0.18	3.5	0.170	0.68
H248704		270	2.4	2.0	<0.002	0.01	0.07	0.4	2	<0.2	55.7	<0.05	<0.05	<0.2	<0.005	<0.02

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Finalized Date: 4-AUG-2009
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Project: RAU

CERTIFICATE OF ANALYSIS VA09075566

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
H248669		0.3	5	0.5	6.5	20	5.5
H248670		0.5	8	0.3	5.2	30	10.4
H248671		0.3	16	0.5	5.7	27	14.6
H248672		1.8	30	5.7	19.7	158	18.9
H248673		0.9	172	8.3	8.9	141	33.5
H248674		3.1	51	12.7	22.9	346	44.2
H248675		1.2	6	198.5	7.0	136	3.2
H248676		1.1	23	4.0	17.5	156	29.4
H248677		0.6	46	7.1	13.5	64	28.7
H248678		0.6	20	3.7	9.4	34	20.3
H248679		0.4	10	8.7	8.5	28	12.8
H248680		0.7	10	7.0	7.9	23	10.7
H248681		0.7	7	48.5	6.8	34	7.7
H248682		0.9	12	170.5	15.3	30	7.3
H248683		0.8	8	51.3	8.7	17	2.5
H248684		0.8	8	800	9.8	30	7.1
H248685		3.9	11	84.8	11.6	65	15.0
H248686		0.6	8	11.8	9.4	34	11.3
H248687		0.9	13	8.0	11.8	21	21.4
H248688		0.4	16	59.2	6.9	31	9.0
H248689		5.8	113	16.0	41.9	5330	108.5
H248690		2.7	29	88.9	41.0	1810	22.1
H248691		3.3	13	43.4	13.3	73	11.8
H248692		1.5	12	1320	10.4	91	7.0
H248693		0.6	3	3.2	1.2	16	0.5
H248694		0.5	8	880	7.8	77	4.8
H248695		1.0	14	184.5	10.4	344	7.1
H248696		2.5	18	95.6	12.1	1940	8.3
H248697		2.6	20	124.0	13.3	1800	7.5
H248698		1.3	15	142.5	11.1	1100	8.5
H248699		0.6	5	660	8.6	273	1.1
H248700		0.2	7	42.8	5.4	76	6.4
H248701		0.4	9	185.5	7.9	107	4.7
H248702		1.0	20	220	12.9	211	15.3
H248703		2.8	37	213	15.0	269	68.1
H248704		0.8	3	0.2	1.2	16	0.6

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Project: RAU

Finalized Date: 4-AUG-2009
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CERTIFICATE OF ANALYSIS VA09075566

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

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Finalized Date: 26-JUL-2009
Account: RCM

CERTIFICATE VA09074779

Project: RAU

P.O. No.: Batch 20

This report is for 5 Rock samples submitted to our lab in Vancouver, BC, Canada on 21-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09074779

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	5	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H248816		1.60	0.07	1.66	0.19	47	130	0.18	14.05	17.60	0.37	6.76	1.4	11	0.18	5.8
H248817		1.40	0.01	0.58	0.15	24	170	0.17	0.95	19.35	0.39	3.72	0.7	6	0.18	2.1
H248818		1.42	0.11	2.26	0.19	130	170	0.21	9.25	22.1	2.33	11.20	1.3	9	0.27	6.5
H248819		1.12	0.08	1.95	0.21	65	160	0.20	7.46	21.7	1.71	12.60	1.4	5	0.44	4.3
H248820		1.92	0.06	0.78	0.11	48	150	0.14	9.14	21.2	0.54	10.25	0.9	4	0.17	2.6

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 26-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09074779

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248816		0.72	0.82	<0.05	0.1	0.02	0.032	0.07	4.7	2.9	10.10	449	0.86	0.02	1.0	6.3
H248817		0.28	0.65	<0.05	<0.1	0.01	0.016	0.06	2.2	3.0	11.70	420	0.25	0.02	0.3	3.3
H248818		1.10	0.85	0.05	0.1	0.03	0.096	0.07	8.5	2.6	9.33	612	0.32	0.02	0.8	7.0
H248819		0.73	0.75	<0.05	0.1	0.02	0.077	0.08	9.7	3.2	11.85	691	0.25	0.02	1.1	6.7
H248820		0.49	0.50	<0.05	<0.1	0.01	0.063	0.04	7.9	2.7	12.95	506	0.29	0.02	0.4	4.5

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CERTIFICATE OF ANALYSIS VA09074779

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H248816		130	67.5	2.8	<0.002	0.02	1.15	0.7	2	7.4	57.3	0.05	<0.05	0.2	0.020	0.09
H248817		120	21.0	2.5	<0.002	0.01	0.41	0.6	1	0.5	98.1	<0.05	<0.05	<0.2	0.005	0.04
H248818		180	132.0	2.9	<0.002	0.01	1.87	0.8	2	1.1	80.8	<0.05	<0.05	0.2	0.017	0.08
H248819		160	113.0	3.3	<0.002	0.01	1.49	0.7	1	1.0	86.6	0.05	<0.05	0.2	0.023	0.08
H248820		140	61.6	1.7	<0.002	0.01	0.95	0.4	2	1.0	104.5	<0.05	<0.05	<0.2	0.008	0.05

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CERTIFICATE OF ANALYSIS VA09074779

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H248816		2.7	18	3.4	2.0	119	3.3
H248817		0.5	15	1.8	1.5	69	1.2
H248818		0.6	19	6.0	2.6	285	4.9
H248819		0.5	19	4.3	3.0	205	3.5
H248820		0.7	16	3.6	1.5	117	1.5

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 26-JUL-2009
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CERTIFICATE OF ANALYSIS VA09074779

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

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Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE VA09074778

Project: RAU

P.O. No.: Batch 20

This report is for 31 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 21-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09074778

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H248638		5.22	5.36	0.89	0.90	>10000	900	0.29	2320	1.34	6.81	21.3	2.7	16	3.58	24.2
H248639		1.64	13.65	1.18	0.31	>10000	110	<0.05	786	1.66	1.21	17.70	3.8	<1	0.51	10.6
H248640		3.70	0.01	0.01	0.08	37	60	0.07	1.27	19.30	0.08	2.04	1.2	<1	0.14	2.0
H248641		2.46	10.35	0.34	0.77	>10000	350	0.21	467	1.25	2.09	17.95	3.4	2	0.67	10.0
H248642		1.60	0.20	0.07	0.19	7740	10	0.07	281	18.30	0.99	27.1	1.5	<1	0.30	4.8
H248643		2.54	0.41	1.07	0.79	>10000	450	0.38	396	6.78	10.40	40.2	3.1	13	0.48	37.7
H248644		1.38	0.56	3.08	0.57	>10000	360	0.29	195.0	0.95	11.55	26.0	4.8	11	0.11	61.3
H248645		3.24	8.41	17.05	1.17	>10000	5600	0.52	507	1.87	8.09	26.7	5.4	36	2.12	62.5
H248646		2.00	0.94	4.55	0.67	>10000	760	0.29	177.5	0.71	9.25	23.1	6.8	7	0.35	81.4
H248647		7.02	1.52	2.03	0.64	>10000	1420	0.58	349	0.41	7.46	23.9	8.2	3	0.51	37.8
H248648		6.48	1.50	0.99	1.27	>10000	1030	1.03	249	0.37	7.57	24.3	10.3	14	1.18	39.6
H248649		5.30	0.86	1.38	1.31	>10000	1060	0.94	242	0.37	7.07	22.6	10.3	15	1.49	38.8
H248650		0.28	5.38	0.22	0.12	>10000	20	<0.05	466	8.60	0.05	32.4	1.9	12	0.68	41.3
H248651		3.36	0.14	1.14	0.66	>10000	570	0.68	95.3	0.43	9.95	21.8	11.1	6	0.33	30.9
H248652		3.50	<0.01	0.01	0.09	31	10	0.09	0.32	18.90	0.06	1.30	1.0	1	0.20	1.8
H248653		2.00	0.12	8.25	0.78	>10000	500	0.79	77.6	0.63	9.47	21.1	10.3	9	0.65	32.9
H248654		3.04	4.71	12.75	0.98	>10000	4920	0.33	299	18.40	3.21	15.80	5.2	42	1.24	35.6
H248655		2.78	4.54	>100	0.79	>10000	2030	0.48	576	4.70	7.40	36.3	4.3	48	0.77	615
H248656		0.28	0.52	0.90	0.79	5960	120	0.24	106.5	12.05	0.12	30.7	6.1	14	1.85	33.6
H248657		3.10	0.30	7.41	1.32	>10000	530	0.91	47.5	0.47	9.65	20.2	9.4	13	0.76	25.3
H248658		0.56	0.17	5.36	0.56	>10000	360	0.53	24.8	0.51	9.73	21.1	9.7	1	0.15	25.1
H248659		0.42	0.15	4.03	0.67	>10000	330	0.47	15.70	11.35	7.77	20.2	6.1	12	0.35	17.0
H248660		0.70	0.49	5.70	2.08	>10000	530	1.03	250	0.43	14.60	38.2	8.3	19	2.34	20.5
H248661		1.24	3.15	12.50	0.77	>10000	410	0.35	151.5	0.34	15.70	19.25	8.6	6	1.19	31.3
H248662		2.86	0.39	1.72	0.23	2420	290	0.16	51.2	23.8	6.30	7.67	2.5	1	0.24	6.7
H248663		0.92	0.13	0.63	1.14	2330	370	0.34	215	21.3	8.85	16.00	7.0	13	1.10	10.5
H248664		0.38	0.26	1.65	0.52	8050	610	0.38	259	16.30	11.00	19.90	5.4	3	0.72	26.7
H248665		0.78	0.32	1.77	0.21	3320	310	0.17	15.50	17.95	4.12	8.96	3.8	3	0.25	32.7
H248666		0.62	0.04	0.32	0.11	815	50	0.12	1.63	18.75	2.79	5.51	1.0	2	0.18	17.5
H248667		0.68	0.61	3.01	2.16	7390	1460	0.99	238	5.83	10.25	57.8	19.9	20	0.86	21.8
H248668		1.08	1.94	7.65	4.21	8420	1080	1.84	545	1.91	12.10	57.3	21.6	49	5.17	29.2

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Project: RAU

Finalized Date: 30-JUL-2009
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CERTIFICATE OF ANALYSIS VA09074778

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248638		43.1	10.05	0.67	0.3	0.03	0.404	0.56	9.3	3.7	0.10	3000	1.29	0.01	2.4	8.7
H248639		44.9	2.36	0.73	<0.1	0.01	0.290	0.09	6.6	1.1	0.15	5090	0.70	<0.01	0.9	13.6
H248640		0.43	0.37	0.17	<0.1	<0.01	<0.005	0.03	1.0	1.3	12.80	195	0.07	0.01	0.4	2.9
H248641		45.7	5.80	0.54	0.2	0.01	0.271	0.27	7.7	1.5	0.15	3910	0.61	0.01	1.1	9.4
H248642		8.19	1.53	0.11	<0.1	<0.01	0.061	0.07	13.7	1.1	6.16	8190	0.26	0.01	0.6	2.3
H248643		35.5	8.06	0.39	0.2	0.01	0.327	0.17	18.5	2.2	2.03	4300	1.30	0.02	1.4	9.5
H248644		48.4	4.85	0.52	<0.1	0.01	0.300	0.04	11.5	0.5	0.12	3980	2.27	0.01	0.7	15.4
H248645		38.2	7.23	0.45	0.3	0.05	0.302	0.38	12.8	2.7	0.24	3190	3.82	0.04	2.3	23.0
H248646		>50	3.97	0.54	0.1	0.01	0.289	0.10	10.6	0.7	0.15	5160	2.48	0.01	1.1	19.5
H248647		>50	4.18	0.54	0.1	0.01	0.212	0.15	11.2	0.7	0.14	5900	3.25	0.01	1.1	29.4
H248648		49.5	5.49	0.63	0.2	0.01	0.201	0.35	12.3	1.7	0.18	4360	2.88	0.01	2.0	38.7
H248649		49.2	5.53	0.66	0.2	0.01	0.182	0.38	11.4	1.9	0.17	4550	2.88	0.01	2.1	36.6
H248650		22.6	1.07	0.31	<0.1	<0.01	0.056	0.07	21.1	1.2	4.66	1400	11.30	<0.01	1.6	11.9
H248651		>50	3.41	0.55	<0.1	0.01	0.173	0.11	12.3	0.7	0.10	4060	2.93	0.01	0.9	33.1
H248652		0.44	0.26	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.1	12.40	188	0.15	0.01	0.4	0.2
H248653		49.9	3.29	0.54	0.2	0.01	0.133	0.18	12.5	1.5	0.14	3940	2.55	0.01	1.5	35.6
H248654		15.45	3.76	0.19	0.4	0.03	0.137	0.43	9.2	4.0	0.52	1810	3.56	0.03	5.2	15.4
H248655		39.4	5.15	0.47	0.3	0.05	0.238	0.23	16.7	2.3	1.27	6700	6.46	0.03	2.5	101.5
H248656		14.10	3.73	0.17	0.1	<0.01	0.064	0.39	18.2	4.3	6.55	1980	17.40	0.02	4.1	20.5
H248657		49.2	4.81	0.50	0.1	0.01	0.117	0.39	11.3	1.5	0.18	3830	2.17	0.01	2.0	28.7
H248658		>50	1.59	0.51	<0.1	0.01	0.110	0.04	10.8	0.5	0.14	4860	2.59	0.01	0.7	23.2
H248659		34.8	1.76	0.33	<0.1	0.01	0.047	0.22	12.0	1.5	0.18	3210	2.30	0.01	1.3	19.6
H248660		45.2	9.67	0.59	0.4	0.02	0.291	0.67	19.6	2.0	0.24	6080	3.17	0.02	2.1	31.9
H248661		49.3	4.73	0.67	0.2	0.03	0.125	0.22	10.7	0.8	0.17	4100	2.64	0.01	1.3	26.2
H248662		9.40	1.42	0.11	<0.1	0.01	0.108	0.08	3.3	0.6	1.95	6500	2.16	<0.01	0.8	3.3
H248663		12.95	3.20	0.13	0.2	0.03	0.063	0.24	6.4	2.4	1.89	6510	3.06	0.01	2.2	20.3
H248664		20.8	2.63	0.21	<0.1	0.02	0.151	0.15	9.5	1.1	1.88	7660	2.43	0.01	1.2	13.5
H248665		8.49	1.01	0.07	<0.1	0.01	0.087	0.05	4.8	2.1	8.85	3750	0.96	0.01	0.7	5.1
H248666		2.15	0.64	<0.05	<0.1	<0.01	0.052	0.01	3.0	2.1	10.95	2230	0.48	0.02	0.3	0.9
H248667		28.3	11.10	0.29	1.5	0.02	0.542	0.15	20.9	3.8	2.01	12550	4.57	0.12	6.7	55.1
H248668		24.8	22.4	0.34	2.5	0.03	0.325	0.98	22.8	11.5	2.10	8020	3.11	0.10	8.6	68.6

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H248638		590	332	36.9	<0.002	0.78	113.0	4.1	17	2.5	406	0.08	1.01	1.1	0.035	1.29
H248639		350	21.0	5.5	<0.002	0.11	32.8	3.5	15	2.2	76.6	0.06	0.28	0.3	0.014	0.21
H248640		220	1.9	1.1	<0.002	0.01	0.10	0.2	2	<0.2	50.9	<0.05	<0.05	0.3	<0.005	<0.02
H248641		380	19.2	14.4	0.002	0.14	18.65	2.1	7	1.1	95.1	0.06	0.33	0.5	0.026	0.26
H248642		340	8.7	7.4	0.002	0.02	4.88	1.4	3	1.2	119.5	<0.05	0.21	0.3	0.011	0.07
H248643		630	159.5	9.2	0.002	0.23	22.6	4.1	5	2.4	194.5	0.08	0.50	0.8	0.032	0.22
H248644		540	227	1.6	0.002	0.08	77.1	2.9	3	16.8	44.7	<0.05	0.35	0.6	0.007	0.15
H248645		550	567	19.4	0.004	0.37	72.1	4.1	7	12.6	150.0	0.12	0.53	0.9	0.054	0.51
H248646		450	327	6.9	0.002	0.09	44.9	2.9	3	6.7	37.2	0.05	0.31	0.6	0.020	0.22
H248647		340	366	13.9	0.004	0.06	44.9	2.5	2	5.1	18.2	0.06	0.36	0.4	0.023	0.22
H248648		480	256	16.5	0.004	0.05	43.8	4.5	3	2.3	14.4	0.09	0.33	1.1	0.061	0.36
H248649		440	214	18.1	0.003	0.05	36.0	4.3	3	1.9	15.2	0.10	0.36	1.1	0.059	0.39
H248650		80	6.7	7.7	0.004	>10.0	22.2	0.4	8	2.1	55.9	0.07	1.40	0.4	0.008	0.17
H248651		510	98.7	4.7	0.003	0.09	22.6	2.7	2	0.7	16.2	<0.05	0.24	0.7	0.016	0.35
H248652		250	2.2	1.4	<0.002	0.01	0.20	0.3	2	<0.2	46.6	<0.05	<0.05	<0.2	<0.005	<0.02
H248653		480	131.5	7.5	0.003	0.04	24.3	2.6	2	0.7	14.2	0.06	0.17	0.9	0.033	0.41
H248654		430	292	20.4	<0.002	0.24	25.3	3.0	6	12.5	128.5	0.27	0.41	1.1	0.131	0.37
H248655		690	340	13.5	0.006	0.25	39.4	3.0	10	8.3	151.0	0.14	0.95	1.0	0.048	0.72
H248656		230	14.3	30.8	0.017	>10.0	4.31	2.1	7	3.2	87.0	0.22	0.22	0.7	0.102	0.29
H248657		470	67.9	13.6	0.002	0.05	13.85	2.9	2	0.7	17.7	0.10	0.15	1.1	0.058	0.36
H248658		360	38.1	1.7	0.002	0.04	6.68	2.0	2	0.3	18.8	<0.05	0.13	0.3	0.006	0.30
H248659		290	27.7	6.5	<0.002	0.03	3.17	2.1	2	0.3	52.8	0.06	0.09	0.4	0.030	0.20
H248660		840	766	59.8	0.002	0.03	10.15	6.0	5	8.5	14.2	0.11	0.28	1.5	0.066	1.04
H248661		360	864	27.4	0.002	0.06	6.09	2.2	5	2.4	13.9	0.05	0.22	0.4	0.027	0.81
H248662		170	244	9.8	<0.002	0.03	2.11	0.9	3	2.1	45.1	<0.05	0.06	<0.2	0.013	0.37
H248663		380	199.0	19.1	0.002	0.19	5.89	1.9	5	1.7	38.5	0.11	0.14	0.5	0.047	0.43
H248664		350	308	13.1	<0.002	0.05	9.31	2.3	4	3.0	39.2	0.06	0.22	0.3	0.027	0.33
H248665		140	141.0	3.4	0.002	0.02	2.43	1.7	3	1.0	49.1	<0.05	0.09	0.2	0.014	0.24
H248666		50	97.4	1.4	<0.002	0.01	1.50	1.0	2	0.5	69.5	<0.05	<0.05	<0.2	0.005	0.16
H248667		840	341	19.0	0.002	0.05	4.21	7.5	4	7.0	48.1	0.37	0.25	1.8	0.162	1.71
H248668		1210	240	99.1	<0.002	0.03	10.60	9.4	4	12.2	28.7	0.41	0.97	3.8	0.185	1.28

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09074778

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1
H248638		5.1	31	129.0	17.4	914	16.8	
H248639		3.3	10	91.7	25.4	277	6.9	
H248640		0.5	2	0.2	1.0	15	0.5	
H248641		3.3	14	56.7	22.0	379	10.6	
H248642		0.6	8	5.9	30.4	185	3.9	
H248643		4.4	27	27.1	37.9	1480	9.7	
H248644		6.8	22	86.9	24.0	2070	7.0	
H248645		5.6	31	264	19.9	2050	16.7	
H248646		4.9	20	69.5	23.8	2450	7.2	
H248647		3.3	20	246	31.0	3250	12.4	
H248648		4.3	28	352	25.1	3720	16.8	
H248649		4.0	27	269	23.8	3510	16.9	
H248650		0.5	5	37.2	4.3	17	4.8	
H248651		3.5	21	162.0	23.1	4260	8.9	
H248652		0.5	3	0.4	0.9	19	<0.5	
H248653		3.3	24	195.5	23.2	3980	11.0	
H248654		1.9	28	95.2	14.7	499	22.0	
H248655		4.5	22	2600	42.7	1500	16.2	349
H248656		0.4	18	65.1	6.9	36	8.2	
H248657		3.4	23	110.5	25.4	3240	10.4	
H248658		3.7	10	59.5	29.9	3280	2.4	
H248659		1.9	13	32.6	28.8	2020	5.0	
H248660		3.7	31	73.9	39.3	4630	23.5	
H248661		3.3	13	15.7	19.7	4800	13.0	
H248662		0.9	5	52.5	11.1	754	4.8	
H248663		1.9	14	12.5	15.5	1300	13.6	
H248664		2.2	11	12.7	22.7	1940	6.8	
H248665		0.9	12	12.0	10.6	876	3.6	
H248666		0.3	11	0.7	6.0	296	1.4	
H248667		4.7	43	33.9	49.4	4390	54.7	
H248668		5.9	79	38.3	42.2	4230	84.2	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09074778

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

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Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE VA09073353

Project: RAU

P.O. No.: Batch 18

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 20-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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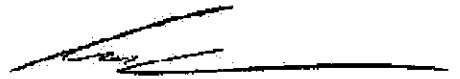
This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073353

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H247416		0.72	0.24	0.54	7.62	1140	2000	2.06	4.08	9.59	1.71	45.9	27.2	409	7.05	16.1
H247417		3.00	1.37	<0.01	12.70	1910	3530	3.42	14.25	0.52	1.01	66.3	18.4	333	6.26	4.8
H247418		2.20	0.30	<0.01	10.65	2170	2670	3.17	1.04	0.89	1.79	113.5	22.6	157	7.31	8.6
H247419		0.56	0.39	1.43	9.67	1315	>10000	2.77	20.1	0.08	1.03	32.0	5.7	191	5.47	7.2
H247420		0.28	5.50	0.19	0.16	>10000	130	0.06	443	8.35	0.03	36.6	1.8	13	0.71	39.9
H247421		1.04	1.78	2.67	10.15	1900	7950	3.47	101.5	0.13	2.09	15.25	13.6	333	5.49	12.9
H247422		1.34	2.13	3.54	3.21	5360	7850	1.12	74.7	0.72	6.96	77.2	20.8	64	4.69	42.1
H247423		0.64	0.93	1.57	2.76	2960	3050	1.17	75.2	7.76	9.43	36.1	24.1	45	6.00	36.5
H247424		1.44	0.10	0.25	10.80	505	3690	3.58	89.0	0.11	0.92	28.4	20.2	216	7.91	8.3
H247425		1.10	0.16	0.35	11.10	616	3690	3.32	123.0	0.07	0.81	30.1	11.0	216	6.87	5.7
H247426		1.84	0.10	<0.01	11.50	113.0	2650	3.38	6.97	0.04	0.11	11.30	1.6	321	6.57	<0.2
H247427		0.82	0.21	0.05	10.85	193.0	4230	3.38	70.9	0.07	0.25	13.75	2.2	184	6.89	<0.2
H247428		1.60	0.38	0.91	2.44	2760	1640	1.12	45.6	3.05	6.45	65.7	30.9	39	4.82	29.5
H247429		0.22	0.40	0.80	7.43	1800	3390	2.34	120.0	0.19	3.16	44.7	10.4	162	5.23	15.1
H247430		0.52	0.23	3.29	9.17	573	1040	2.77	525	0.09	0.81	34.3	3.3	319	4.79	6.3
H247431		1.32	0.10	0.15	8.59	232	5910	2.74	117.0	0.61	0.60	30.0	8.2	373	4.72	1.4
H247432		0.54	0.10	0.30	8.42	404	5850	2.83	161.0	0.16	0.63	43.1	4.7	379	5.26	2.2
H247433		1.24	0.13	0.48	5.29	2730	5540	1.91	140.5	0.41	3.50	67.2	22.2	191	4.82	21.2
H247434		3.66	0.01	0.01	0.11	19	70	0.08	1.45	19.05	0.08	2.03	1.2	2	0.21	1.7
H247435		1.48	1.15	2.07	1.02	4840	6700	0.61	427	0.59	4.94	251	10.8	17	0.92	15.6
H247436		0.66	0.91	2.66	0.37	4780	1810	0.22	208	0.27	2.70	69.0	3.9	6	0.27	16.7
H247437		1.12	0.83	1.77	0.49	7950	1210	0.18	161.0	0.32	1.51	72.5	5.2	5	0.27	24.6
H247438		1.00	5.89	16.40	0.51	6140	6260	<0.05	470	0.24	1.34	144.5	3.4	4	0.44	10.8
H247439		0.44	1.87	21.2	0.88	7740	1340	0.29	362	0.27	1.38	63.6	3.5	17	0.58	12.5
H247440		0.38	1.69	17.95	0.76	8210	1580	0.48	354	0.28	1.46	58.4	3.3	12	0.48	15.2
H247441		1.20	1.04	8.89	1.43	5930	1540	0.40	173.0	0.25	0.27	21.9	1.7	27	0.69	20.0
H247442		1.30	0.72	10.40	0.65	8480	1010	0.18	287	0.30	0.43	15.80	1.9	14	0.11	80.1
H247443		3.64	<0.01	0.08	0.08	55	20	0.07	1.92	18.75	0.06	1.56	1.0	1	0.15	2.1
H247444		1.12	0.75	13.90	0.31	9730	780	0.14	1880	0.41	0.53	24.9	3.0	4	0.32	127.5
H247445		0.28	0.44	0.80	0.80	5790	130	0.37	117.0	11.65	0.15	33.4	5.4	14	1.89	31.1
H247446		0.56	0.16	18.00	0.36	5590	2970	0.09	189.5	0.28	<0.02	30.3	1.8	2	0.08	3.7
H247447		2.42	0.32	1.93	0.57	5640	1330	<0.05	1885	0.25	0.30	35.8	5.5	11	0.26	29.2
H247448		1.30	0.06	0.40	3.14	1860	870	1.12	57.9	1.05	0.50	48.9	9.6	77	12.80	51.1
H247449		2.16	0.07	0.22	4.43	203	800	1.17	22.2	8.29	0.39	63.9	13.0	54	32.3	18.6
H247450		3.56	0.02	0.50	1.67	130	430	0.50	6.18	14.45	0.37	26.9	4.4	20	4.69	9.2
H248601		1.04	0.05	0.22	2.27	89	530	0.54	8.16	14.15	0.38	17.25	7.4	38	4.47	7.3

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073353

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247416		6.28	26.3	0.12	1.3	<0.01	0.136	2.96	22.5	12.7	0.48	3180	2.95	0.13	13.4	128.5
H247417		5.57	53.5	0.16	2.2	<0.01	0.097	5.65	31.8	19.4	0.58	441	1.59	0.13	56.0	140.0
H247418		5.59	35.4	0.17	1.2	<0.01	0.109	5.20	49.9	18.4	0.48	662	1.83	0.12	35.5	148.5
H247419		4.86	39.2	0.12	1.8	0.01	0.068	4.74	23.7	29.3	0.50	131	1.60	0.13	38.8	45.8
H247420		22.6	1.28	0.31	0.2	<0.01	0.116	0.09	23.3	1.6	4.47	1370	10.90	<0.01	1.5	13.5
H247421		8.85	59.7	0.13	2.8	0.02	0.081	4.87	13.0	23.0	0.62	215	3.03	0.11	14.8	79.7
H247422		28.5	16.90	0.32	0.9	0.01	0.071	1.18	50.1	3.7	0.45	2990	5.77	0.03	2.4	153.0
H247423		17.25	15.95	0.25	1.3	<0.01	0.060	0.88	35.8	6.5	3.08	3710	4.03	0.04	11.0	126.0
H247424		3.62	40.4	0.11	1.6	<0.01	0.080	5.47	19.1	24.0	0.71	119	2.52	0.14	70.1	131.5
H247425		3.47	37.8	0.12	1.7	<0.01	0.078	5.84	19.0	22.7	0.66	87	2.84	0.13	81.1	94.5
H247426		1.42	39.8	0.09	1.7	<0.01	0.086	6.45	6.1	28.5	0.66	36	1.68	0.16	118.0	16.5
H247427		1.88	37.8	0.08	2.2	<0.01	0.069	5.99	8.5	29.9	0.67	50	2.70	0.15	112.5	23.1
H247428		31.8	10.50	0.42	0.9	0.01	0.049	0.84	39.4	9.4	2.12	1760	5.07	0.03	4.5	122.0
H247429		11.45	27.5	0.22	3.0	0.01	0.056	3.41	29.8	21.5	0.70	490	3.44	0.10	18.4	56.9
H247430		6.75	36.6	0.25	7.2	0.01	0.038	4.85	23.2	22.4	0.56	124	2.06	0.12	31.8	21.1
H247431		3.43	28.0	0.10	1.7	<0.01	0.043	4.14	13.5	17.7	1.01	412	0.82	0.09	26.8	46.9
H247432		4.51	29.3	0.13	1.1	<0.01	0.047	3.92	28.2	15.5	0.56	171	1.43	0.09	22.4	21.3
H247433		19.95	20.5	0.28	1.2	<0.01	0.043	2.10	39.2	13.3	0.90	935	5.43	0.05	3.4	118.0
H247434		0.51	0.38	<0.05	<0.1	<0.01	<0.005	0.05	1.0	1.3	12.30	193	0.11	0.01	0.5	0.8
H247435		30.4	6.10	0.46	0.5	0.01	0.048	0.14	157.5	2.5	0.77	1080	5.44	0.04	0.9	66.5
H247436		31.7	3.23	0.43	0.2	0.01	0.050	0.03	46.5	2.5	1.04	1180	6.67	0.01	0.4	28.4
H247437		36.0	3.07	0.58	0.4	<0.01	0.027	0.12	48.0	2.0	2.90	1050	6.79	0.01	0.9	26.0
H247438		29.9	4.37	0.42	0.6	<0.01	0.059	0.04	93.1	2.8	2.90	997	3.85	0.03	1.2	17.3
H247439		28.6	4.34	0.35	0.9	<0.01	0.048	0.15	41.3	2.9	0.99	827	5.03	0.02	2.4	13.2
H247440		30.8	4.22	0.63	0.8	<0.01	0.044	0.13	37.0	3.3	1.03	864	5.11	0.02	2.2	14.7
H247441		16.20	8.42	0.20	2.0	<0.01	0.018	0.08	12.5	2.6	0.81	361	9.83	0.11	7.7	6.4
H247442		22.9	4.39	0.30	1.2	<0.01	0.028	0.01	9.6	1.3	2.24	398	5.57	0.05	15.2	8.4
H247443		0.52	0.28	<0.05	<0.1	<0.01	<0.005	0.03	0.7	1.2	12.10	171	0.14	0.01	0.5	<0.2
H247444		36.6	2.43	0.54	0.8	<0.01	0.054	0.01	15.4	1.6	1.48	482	8.36	0.01	1.1	15.2
H247445		14.15	3.70	0.20	0.3	<0.01	0.072	0.38	18.9	4.0	6.38	1960	16.75	0.02	3.6	21.4
H247446		37.5	2.83	0.43	0.3	<0.01	0.008	0.01	19.7	0.9	0.27	65	19.90	0.04	0.5	5.8
H247447		35.5	5.59	0.63	2.1	<0.01	0.044	0.05	22.6	2.0	2.43	377	8.48	0.03	4.0	17.9
H247448		28.7	20.2	0.33	2.0	<0.01	0.033	1.07	27.6	16.2	3.41	563	5.51	0.11	16.9	42.0
H247449		7.35	12.05	0.16	2.4	<0.01	0.021	2.26	34.6	37.8	9.33	662	0.81	0.08	32.5	53.2
H247450		4.31	5.02	0.08	0.7	<0.01	0.023	0.73	15.3	13.7	9.68	638	0.37	0.02	13.5	13.4
H248601		4.55	6.98	0.08	1.1	<0.01	0.013	1.17	9.4	19.1	10.15	568	0.35	0.02	16.5	25.0

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073353

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247416		1640	162.0	140.0	<0.002	0.07	5.20	26.5	2	6.4	43.2	0.76	<0.05	3.6	0.464	3.60
H247417		1630	31.4	212	<0.002	0.06	5.41	26.1	2	12.6	32.7	3.35	<0.05	8.4	1.320	1.79
H247418		4090	15.7	195.0	<0.002	0.02	6.32	23.3	2	9.4	51.0	1.99	<0.05	8.3	0.579	2.26
H247419		560	891	163.5	<0.002	0.50	8.25	20.6	2	10.1	346	2.04	<0.05	6.1	0.515	1.27
H247420		70	8.1	7.9	<0.002	>10.0	23.3	0.6	9	2.0	56.4	0.08	1.44	0.4	0.011	0.12
H247421		940	905	201	<0.002	0.26	14.75	29.0	3	11.0	64.3	0.84	0.11	9.0	0.358	1.42
H247422		2580	570	70.8	0.002	0.40	13.60	5.0	3	3.0	189.5	0.18	0.25	6.9	0.072	2.53
H247423		1880	258	64.6	<0.002	0.44	7.02	5.8	3	4.0	74.2	0.71	0.12	7.3	0.175	3.23
H247424		460	114.5	189.0	<0.002	0.24	9.67	26.4	2	9.6	44.3	3.84	0.26	6.3	0.890	1.46
H247425		470	262	188.0	<0.002	0.25	9.53	26.3	2	9.0	39.8	4.50	0.12	6.0	0.979	1.47
H247426		150	17.6	193.0	<0.002	0.29	2.07	28.4	2	10.0	36.2	6.18	0.05	3.5	1.695	1.38
H247427		180	63.6	192.5	<0.002	0.32	5.72	25.6	2	10.4	39.2	6.03	0.09	4.6	1.325	1.51
H247428		2160	47.9	50.4	<0.002	0.29	5.36	7.0	3	2.2	46.6	0.26	0.30	8.1	0.125	1.48
H247429		1040	93.0	123.5	<0.002	0.53	6.20	20.7	3	7.4	47.4	1.00	0.26	8.4	0.391	1.42
H247430		560	587	187.0	<0.002	1.74	9.64	30.6	4	14.2	88.2	1.52	0.23	5.2	0.468	1.75
H247431		340	49.3	148.5	<0.002	0.64	5.25	31.3	2	10.1	36.2	1.57	0.09	3.5	0.807	1.37
H247432		370	30.9	176.5	<0.002	0.73	5.46	31.4	2	10.1	49.0	1.31	0.15	3.3	0.754	1.54
H247433		1810	57.4	109.0	0.002	0.51	7.94	17.2	4	6.0	52.8	0.18	0.48	7.8	0.179	1.30
H247434		230	3.7	2.2	<0.002	0.02	0.12	0.6	3	<0.2	46.1	<0.05	<0.05	<0.2	0.009	<0.02
H247435		1440	323	9.9	0.011	0.27	14.30	4.8	11	1.5	61.5	0.05	0.63	4.4	0.021	0.60
H247436		1090	77.8	2.2	0.039	0.11	8.40	2.6	6	1.9	17.9	<0.05	0.23	0.8	0.009	0.71
H247437		760	58.4	5.4	0.024	0.10	8.95	2.5	8	1.6	16.5	0.06	0.41	0.9	0.018	0.47
H247438		620	469	4.0	0.026	0.23	16.05	2.5	8	6.3	41.3	0.09	0.76	1.1	0.026	0.49
H247439		480	409	9.9	0.014	0.09	12.80	2.5	8	2.3	15.8	0.13	0.41	1.3	0.052	0.38
H247440		490	418	8.4	0.018	0.10	12.80	3.0	9	2.8	18.0	0.12	0.33	1.2	0.042	0.26
H247441		210	244	6.4	0.004	0.07	15.65	2.3	6	5.3	22.5	0.41	0.47	1.4	0.117	0.20
H247442		340	154.5	0.6	0.003	0.06	14.05	1.3	13	5.9	20.1	0.84	1.27	1.1	0.156	0.24
H247443		240	3.1	1.2	<0.002	0.01	0.20	0.4	3	<0.2	45.4	<0.05	<0.05	<0.2	0.005	<0.02
H247444		700	352	1.2	0.004	0.07	45.0	1.8	17	2.6	14.2	<0.05	2.00	1.0	0.023	0.17
H247445		230	13.4	28.4	0.012	>10.0	4.60	2.1	7	3.0	81.9	0.20	0.19	0.7	0.097	0.24
H247446		170	17.7	0.4	<0.002	0.19	3.97	0.2	16	0.8	30.5	<0.05	0.23	0.3	0.010	0.22
H247447		560	302	2.7	0.105	0.17	15.35	2.1	31	3.3	17.3	0.12	1.45	1.6	0.078	1.15
H247448		1750	5.2	124.0	<0.002	0.25	3.37	8.0	4	3.8	40.4	0.84	0.37	7.4	0.295	1.54
H247449		990	3.8	177.5	<0.002	0.09	1.71	7.4	3	2.1	45.6	1.85	0.11	5.8	0.314	1.91
H247450		480	11.6	32.5	<0.002	0.11	3.15	2.7	3	1.1	50.7	0.69	0.06	2.6	0.123	0.42
H248601		590	7.7	42.8	<0.002	0.21	2.67	3.4	3	1.5	49.6	0.80	0.07	2.4	0.239	0.38

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073353

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H247416		1.5	184	158.5	15.2	612	43.5
H247417		1.6	210	17.7	15.8	400	85.9
H247418		1.0	186	13.0	19.9	580	48.6
H247419		1.7	153	12.3	7.0	764	73.0
H247420		0.5	3	37.4	4.3	11	7.9
H247421		2.3	167	13.2	6.7	1440	104.0
H247422		2.0	59	84.7	17.3	2870	36.1
H247423		1.7	61	41.9	17.7	2080	46.1
H247424		0.8	187	96.8	9.5	356	64.4
H247425		0.7	196	107.5	9.0	331	66.2
H247426		0.6	249	15.8	7.0	50	76.3
H247427		0.8	213	29.9	9.2	90	89.8
H247428		1.3	54	98.7	18.2	1450	43.2
H247429		1.4	128	42.8	15.2	506	124.0
H247430		2.4	259	55.8	12.5	131	261
H247431		0.8	305	38.5	7.1	152	47.4
H247432		0.5	293	37.7	5.1	126	36.7
H247433		1.7	150	188.0	13.7	949	46.6
H247434		0.6	3	1.5	1.0	19	1.6
H247435		3.6	20	680	15.8	1080	18.8
H247436		1.8	9	2520	10.0	287	6.1
H247437		1.8	12	1770	6.5	687	11.5
H247438		2.8	13	1420	7.6	767	17.7
H247439		2.3	16	950	6.5	761	31.1
H247440		2.7	14	1010	6.8	771	28.9
H247441		2.2	25	375	3.1	174	64.1
H247442		2.1	14	314	3.6	138	51.9
H247443		0.8	1	3.9	0.9	14	0.8
H247444		2.6	7	640	5.6	378	32.0
H247445		0.4	15	63.4	6.8	30	13.7
H247446		1.8	8	204	0.5	13	11.7
H247447		2.9	19	6400	5.1	414	75.1
H247448		3.2	64	114.5	12.9	187	86.5
H247449		1.7	49	20.8	15.8	137	92.7
H247450		0.8	23	5.7	10.2	62	30.1
H248601		1.1	38	4.9	9.8	97	40.7

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To: ATAC RESOURCES LTD.
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1016-510 W HASTINGS ST
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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073353

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

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

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE VA09073352

Project: RAU

P.O. No.: Batch 17

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 20-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

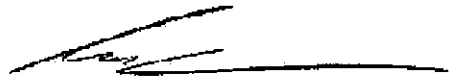
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073352

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247380		5.08	0.01	0.15	6.19	60	870	0.95	0.58	17.90	0.21	89.3	42.0	36	3.78	34.7
H247381		3.40	0.05	0.30	7.04	245	230	1.38	0.86	12.15	0.71	94.8	64.7	40	7.33	38.8
H247382		1.88	0.02	0.57	5.48	320	1540	1.74	2.22	10.10	1.57	87.7	53.2	36	6.23	37.1
H247383		3.02	0.06	0.39	6.95	92	220	1.55	3.16	10.10	2.44	85.6	47.1	42	7.30	33.5
H247384		1.40	0.14	1.48	7.44	144.0	730	1.96	13.75	3.23	4.31	121.0	54.2	82	7.67	45.3
H247385		5.48	0.03	0.65	1.15	30	530	0.68	4.77	17.50	0.76	12.65	6.1	25	2.39	17.7
H247386		4.24	0.01	0.56	0.14	88	70	0.21	3.30	18.30	2.14	5.21	1.8	5	0.16	2.6
H247387		4.36	<0.01	0.35	0.08	34	740	0.15	1.49	19.15	4.27	3.32	1.1	4	0.17	2.2
H247388		5.22	0.01	0.36	0.27	45	50	0.20	1.97	20.9	0.54	3.64	1.0	6	0.22	4.3
H247389		0.58	0.69	1.21	2.91	6120	920	0.95	258	4.98	3.18	49.3	8.9	57	6.64	40.2
H247390		0.28	1.50	2.20	0.14	>10000	30	0.06	431	15.15	1.10	70.3	2.2	6	0.83	22.7
H247391		4.16	1.21	0.63	2.46	>10000	950	0.82	391	0.62	1.23	92.5	4.6	40	4.25	57.8
H247392		6.64	3.17	75.8	0.59	>10000	1140	<0.05	7360	0.64	6.39	297	0.9	23	<0.05	92.8
H247393		2.56	1.32	2.82	0.59	>10000	510	0.12	345	0.45	3.50	14.90	1.7	16	0.36	77.3
H247394		0.40	1.22	2.23	0.72	6450	520	0.37	120.0	16.40	18.75	21.5	3.1	5	0.99	12.5
H247395		0.28	0.29	0.47	0.33	3570	430	0.14	96.1	28.5	11.10	12.05	1.4	2	0.18	6.8
H247396		1.14	1.48	>100	1.34	8950	860	0.48	510	7.21	5.32	40.6	5.7	56	2.48	2040
H247397		3.58	1.36	68.0	0.38	8570	720	0.16	525	22.2	24.3	26.0	2.8	1	0.53	237
H247398		3.88	<0.01	0.19	0.11	48	20	0.07	2.70	20.5	0.09	1.68	1.0	1	0.22	2.0
H247399		1.38	2.02	4.88	0.23	>10000	410	0.10	268	15.95	14.00	35.7	4.2	<1	0.26	7.2
H247400		1.18	1.64	6.87	0.30	>10000	460	0.11	391	16.70	15.55	24.8	4.0	1	0.41	8.2
H247401		0.62	7.06	6.51	0.80	>10000	390	0.35	1840	2.09	20.5	21.7	8.0	7	1.12	17.0
H247402		4.02	0.56	2.50	5.35	>10000	1340	1.84	774	0.50	4.01	104.0	8.3	42	10.40	69.7
H247403		5.62	0.23	2.05	4.91	>10000	1550	1.55	149.5	0.45	3.61	84.2	7.3	37	4.76	23.6
H247404		6.82	0.10	2.04	5.42	>10000	1950	1.20	40.3	0.41	4.27	48.5	9.9	40	4.19	36.5
H247405		5.16	0.06	1.46	7.24	8510	1550	2.18	28.4	0.25	3.08	57.3	10.5	58	7.81	25.2
H247406		3.22	<0.01	0.12	0.23	57	80	0.09	0.79	35.9	0.33	5.61	1.3	8	0.17	2.0
H247407		3.88	0.01	0.03	0.19	67	80	0.08	0.91	33.9	0.13	3.00	1.0	6	0.17	1.4
H247408		0.28	0.47	0.88	0.83	5920	130	0.34	111.0	12.70	0.15	33.7	6.1	14	1.99	34.5
H247409		2.74	0.01	0.05	0.90	56	260	0.25	1.11	30.1	0.21	8.63	2.7	18	0.83	4.2
H247410		0.94	0.01	0.05	1.01	79	210	0.28	0.87	30.8	0.19	10.75	3.3	28	0.73	4.1
H247411		1.76	0.04	0.08	1.88	92	570	0.52	4.17	31.6	0.31	13.55	5.2	52	1.26	6.3
H247412		1.16	1.64	0.13	1.29	219	680	0.49	120.5	21.5	0.84	15.35	10.3	21	1.31	153.5
H247413		0.96	2.11	0.13	1.22	261	750	0.50	263	20.8	1.05	16.40	7.1	12	1.04	110.5
H247414		1.64	2.78	0.34	1.65	1900	1510	0.69	92.1	19.35	2.90	13.85	14.0	18	2.01	67.8
H247415		3.64	<0.01	0.01	0.08	13	30	0.07	0.82	20.9	0.07	1.43	1.0	1	0.15	1.8

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073352

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247380		2.53	19.75	0.18	1.4	<0.01	0.073	2.57	43.2	5.9	1.48	711	0.30	0.10	32.5	98.1
H247381		4.58	22.9	0.21	1.0	<0.01	0.044	3.39	46.1	11.4	2.82	999	0.35	0.05	35.0	176.0
H247382		3.97	17.35	0.19	0.8	0.01	0.035	2.29	43.9	5.4	1.80	1100	0.94	0.04	26.5	164.0
H247383		5.66	22.2	0.18	1.0	<0.01	0.030	3.18	39.3	11.1	3.84	1020	0.42	0.04	34.5	102.5
H247384		8.44	27.0	0.27	3.0	0.04	0.051	3.55	58.3	12.4	1.83	484	17.65	0.06	28.8	160.5
H247385		1.75	5.09	0.09	0.9	0.02	0.056	0.57	6.8	4.2	11.10	1060	6.38	0.02	6.1	34.6
H247386		2.53	0.83	0.06	0.1	<0.01	0.034	0.03	2.9	2.4	11.55	641	1.57	0.02	0.4	11.1
H247387		0.75	0.55	0.05	<0.1	<0.01	0.055	0.02	1.9	2.4	12.15	721	0.79	0.02	0.2	5.6
H247388		0.86	1.57	<0.05	0.2	<0.01	0.073	0.02	2.0	4.0	13.45	582	1.63	0.04	0.9	6.8
H247389		24.4	14.55	0.28	1.1	0.03	0.107	0.92	28.7	16.2	1.90	2200	2.10	0.05	7.4	39.7
H247390		21.0	1.28	0.28	0.1	<0.01	0.097	0.08	45.3	2.3	8.70	2790	7.33	0.01	0.8	9.6
H247391		25.5	13.40	0.29	0.9	<0.01	0.232	0.81	57.4	12.6	2.17	789	1.27	0.04	3.5	17.1
H247392		49.9	25.6	4.41	<0.1	0.02	0.223	0.09	187.0	1.0	0.21	1260	<0.05	0.01	<0.1	4.8
H247393		>50	8.29	0.52	0.1	<0.01	0.556	0.04	6.4	0.2	0.14	1200	2.13	<0.01	0.7	5.4
H247394		31.0	4.37	0.31	0.4	0.01	0.100	0.21	10.1	0.6	0.43	3460	1.47	0.01	1.8	9.5
H247395		9.36	2.35	0.44	<0.1	<0.01	0.132	0.05	4.6	0.6	1.30	3980	0.33	0.01	<0.1	6.7
H247396		24.2	7.99	0.60	0.1	0.01	0.120	0.47	23.6	6.1	1.41	2040	6.46	0.04	0.1	199.5
H247397		19.65	2.28	0.21	0.2	0.03	0.256	0.10	13.1	0.5	0.35	6940	3.71	0.01	0.7	106.5
H247398		0.55	0.38	<0.05	<0.1	<0.01	<0.005	0.05	0.8	1.2	12.90	216	0.16	0.01	0.4	2.3
H247399		29.7	1.64	0.30	0.2	0.02	0.117	0.04	20.0	0.4	0.97	4000	1.62	0.01	0.8	13.5
H247400		32.1	2.00	0.32	0.2	0.02	0.145	0.09	12.7	0.5	0.91	4280	1.80	0.01	0.9	13.2
H247401		>50	5.12	0.72	0.4	0.02	0.157	0.25	8.7	1.2	0.28	3020	3.44	0.01	1.9	22.7
H247402		26.8	27.1	0.51	1.8	0.01	0.102	1.64	48.9	17.2	1.03	989	0.69	0.06	6.8	38.3
H247403		34.2	22.4	0.41	0.3	0.01	0.117	2.38	48.0	19.7	0.54	1040	0.73	0.06	3.6	36.9
H247404		30.7	20.5	0.34	0.2	0.01	0.150	2.45	24.3	12.0	0.36	830	1.17	0.07	3.7	43.7
H247405		25.7	21.7	0.31	0.2	<0.01	0.150	3.57	25.1	12.3	0.47	1300	0.73	0.09	8.1	64.2
H247406		0.60	0.54	<0.05	0.1	<0.01	<0.005	0.10	3.5	0.4	0.86	230	0.15	0.01	1.4	3.1
H247407		0.47	0.40	<0.05	0.1	<0.01	<0.005	0.08	1.9	0.6	1.08	260	0.28	0.01	0.8	2.8
H247408		15.20	3.87	0.20	0.2	<0.01	0.063	0.40	19.6	5.0	6.89	2120	17.70	0.02	3.2	23.7
H247409		0.85	2.02	<0.05	0.3	<0.01	0.012	0.39	4.6	4.3	2.12	302	0.38	0.05	2.8	10.8
H247410		1.09	2.30	0.05	0.3	<0.01	0.016	0.45	5.9	9.6	2.38	449	0.45	0.02	3.1	13.4
H247411		1.93	4.60	0.05	0.4	<0.01	0.039	0.87	7.1	11.5	1.54	1120	0.56	0.02	6.3	22.2
H247412		8.25	7.82	0.10	0.6	0.01	0.135	0.45	6.7	7.6	4.32	12850	2.98	0.02	3.8	30.1
H247413		8.47	7.92	0.12	0.6	<0.01	0.120	0.49	7.0	4.4	4.01	12200	3.60	0.03	3.9	25.7
H247414		13.40	10.35	0.16	0.9	0.01	0.131	0.61	6.2	5.0	1.26	12850	7.43	0.07	5.2	61.6
H247415		0.48	0.48	<0.05	<0.1	<0.01	<0.005	0.04	0.7	1.1	13.20	225	0.43	0.01	0.4	2.7

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073352

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247380		2300	7.0	68.5	<0.002	0.64	3.36	14.3	2	1.5	119.5	1.88	<0.05	4.0	1.020	0.45
H247381		3550	9.0	110.0	<0.002	3.85	5.01	15.7	2	2.8	79.7	2.08	<0.05	4.1	1.160	1.28
H247382		3450	38.8	109.0	<0.002	1.43	10.20	13.0	3	2.6	66.6	1.59	<0.05	3.4	0.885	1.76
H247383		1910	113.5	131.0	<0.002	5.77	5.13	15.4	2	3.4	63.8	2.00	<0.05	3.9	1.125	1.60
H247384		2880	197.0	169.5	0.053	9.30	8.85	15.4	6	4.4	26.1	1.74	0.11	5.8	0.924	2.49
H247385		790	42.4	43.6	0.025	1.63	2.23	2.5	3	2.8	82.1	0.35	0.11	1.1	0.187	0.47
H247386		960	55.8	2.5	<0.002	1.89	0.46	0.7	3	0.8	84.8	<0.05	0.07	0.2	0.008	0.02
H247387		170	43.5	2.8	<0.002	0.20	0.46	0.4	2	0.9	106.0	<0.05	<0.05	<0.2	<0.005	<0.02
H247388		500	34.7	1.4	<0.002	0.65	0.35	0.9	2	0.5	83.5	0.05	0.05	0.5	0.019	<0.02
H247389		1640	40.8	56.9	<0.002	0.29	13.00	6.9	5	4.0	40.8	0.39	0.60	3.4	0.141	0.94
H247390		150	20.2	9.2	0.002	>10.0	27.8	0.7	6	1.4	115.5	<0.05	1.03	0.6	0.011	0.12
H247391		1550	32.1	49.2	<0.002	0.50	21.1	5.4	8	2.0	93.1	0.18	1.26	3.6	0.077	0.79
H247392		890	4390	2.6	<0.002	0.26	104.5	<0.1	51	12.7	62.4	<0.05	5.75	2.7	0.027	<0.02
H247393		520	438	3.5	<0.002	0.07	14.80	3.8	6	0.3	9.9	<0.05	0.58	0.7	0.006	0.21
H247394		350	507	15.3	<0.002	0.06	14.10	1.8	5	1.3	15.1	0.11	0.19	0.4	0.028	0.24
H247395		330	77.2	4.8	<0.002	0.02	7.77	1.0	6	1.6	34.7	<0.05	<0.05	0.2	0.006	0.18
H247396		590	220	23.8	0.010	0.13	16.05	2.7	10	3.0	27.5	<0.05	0.75	1.0	0.063	0.81
H247397		280	286	9.8	0.004	0.03	7.88	1.5	5	1.3	19.7	<0.05	0.51	0.2	0.018	0.35
H247398		240	2.7	2.3	<0.002	0.07	0.10	0.3	1	<0.2	50.9	<0.05	<0.05	<0.2	0.005	<0.02
H247399		320	296	3.8	<0.002	0.05	7.14	0.9	5	0.5	24.5	<0.05	0.49	0.2	0.013	0.17
H247400		360	443	6.0	<0.002	0.05	9.45	1.1	6	0.6	27.9	<0.05	0.61	0.2	0.016	0.27
H247401		670	499	20.3	<0.002	0.09	19.90	1.3	14	2.1	14.7	0.06	1.23	0.3	0.032	0.24
H247402		1610	197.0	109.0	<0.002	0.55	16.15	10.3	6	9.4	134.5	0.27	0.34	4.2	0.282	0.83
H247403		2130	19.9	88.6	<0.002	0.29	4.31	12.5	3	3.6	100.0	0.19	0.47	4.0	0.261	0.75
H247404		1840	70.1	83.8	<0.002	0.06	3.75	12.4	3	1.3	22.2	0.22	0.45	3.5	0.234	0.49
H247405		1120	65.5	121.0	<0.002	0.03	3.85	16.9	3	1.9	17.0	0.59	0.09	3.6	0.477	0.61
H247406		60	18.5	3.5	<0.002	0.09	0.29	1.2	1	<0.2	228	0.06	<0.05	0.3	0.032	0.08
H247407		20	5.6	3.0	<0.002	0.02	0.24	0.7	1	<0.2	183.5	<0.05	<0.05	0.2	0.020	0.06
H247408		240	14.7	30.8	0.014	>10.0	4.44	2.1	6	3.2	91.3	0.18	0.22	0.8	0.090	0.28
H247409		60	5.1	11.7	<0.002	0.05	0.41	2.6	2	0.4	266	0.14	<0.05	0.8	0.076	0.22
H247410		50	3.4	12.5	<0.002	0.02	0.64	3.4	1	0.5	265	0.16	<0.05	0.7	0.091	0.33
H247411		70	6.0	25.4	<0.002	0.03	1.19	6.6	1	1.4	269	0.34	<0.05	1.2	0.182	0.47
H247412		160	5.7	17.5	<0.002	0.02	2.02	3.8	2	3.8	114.0	0.20	<0.05	1.2	0.093	1.88
H247413		200	9.7	20.3	<0.002	0.06	4.25	4.2	2	3.8	89.3	0.22	0.06	1.5	0.074	1.55
H247414		340	18.2	29.2	<0.002	0.04	5.02	5.8	2	3.9	64.8	0.30	0.05	2.6	0.099	2.41
H247415		230	2.0	1.4	<0.002	0.01	0.05	0.3	1	<0.2	51.3	<0.05	<0.05	<0.2	<0.005	<0.02

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073352

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62
	Analyte	U	V	W	Y	Zn	Zr	Ag
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5	1
H247380		1.1	148	1.2	21.5	113	63.4	
H247381		1.0	173	3.2	20.8	159	40.6	
H247382		1.5	134	37.2	19.7	887	34.9	
H247383		1.0	170	6.1	19.4	548	45.1	
H247384		4.4	433	11.2	24.3	658	122.5	
H247385		4.0	211	6.7	8.5	162	38.6	
H247386		1.6	22	1.2	3.3	315	3.2	
H247387		0.9	19	1.0	2.3	424	1.6	
H247388		2.1	27	1.4	2.5	113	7.8	
H247389		2.1	55	145.5	24.1	290	47.9	
H247390		1.2	7	250	10.6	170	4.5	
H247391		4.5	46	343	16.2	162	40.3	
H247392		4.1	36	1050	7.5	1100	18.3	
H247393		2.8	25	275	6.7	609	4.6	
H247394		2.0	17	287	14.5	2630	13.9	
H247395		1.0	14	1580	15.7	476	1.4	
H247396		2.3	31	7710	15.5	589	8.8	1060
H247397		1.8	9	1120	22.5	3180	8.0	
H247398		0.5	3	10.3	1.1	20	0.5	
H247399		3.0	11	198.0	23.9	1740	7.2	
H247400		3.8	13	276	26.3	2170	8.0	
H247401		3.6	25	421	30.5	1720	19.6	
H247402		3.9	107	169.0	18.3	1660	75.7	
H247403		2.0	104	65.9	20.0	1400	10.0	
H247404		2.1	124	59.5	13.6	975	10.6	
H247405		2.0	126	53.0	19.4	1180	7.3	
H247406		0.4	6	1.9	6.7	86	5.1	
H247407		0.6	3	1.7	2.8	48	3.5	
H247408		0.4	17	65.1	7.9	34	8.6	
H247409		0.5	11	1.5	4.0	92	13.1	
H247410		0.3	14	2.2	4.9	54	13.5	
H247411		0.4	29	3.4	7.7	116	17.9	
H247412		1.4	22	82.8	14.4	326	23.3	
H247413		1.3	21	8.2	16.7	340	23.1	
H247414		2.2	27	107.0	21.8	943	35.9	
H247415		0.5	2	1.2	1.1	17	0.5	

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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073352

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

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Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE VA09073272

Project: RAU

P.O. No.: Batch 15

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 16-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex
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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073272

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247308		2.86	0.01	0.23	4.70	66	890	1.34	1.39	15.90	19.55	49.9	17.6	24	2.46	10.9
H247309		5.68	<0.01	0.19	7.56	78	1110	1.94	0.47	12.65	4.09	112.5	14.2	44	5.84	121.0
H247310		9.26	<0.01	0.06	7.35	36	900	1.65	0.23	13.80	0.44	112.5	32.8	46	5.25	35.6
H247311		2.38	0.17	0.08	0.23	2130	130	0.14	17.35	18.20	0.15	8.34	1.7	4	0.25	3.9
H247312		1.14	0.18	0.09	0.22	3070	170	0.15	31.3	18.50	0.20	8.62	2.0	3	0.23	4.7
H247313		3.64	0.16	0.08	0.22	2360	120	0.13	9.44	18.05	0.22	7.64	1.9	4	0.20	3.1
H247314		4.78	0.09	0.05	0.26	661	130	0.17	3.28	18.10	0.10	7.86	1.4	3	0.37	2.8
H247315		4.94	0.01	0.08	1.62	31	6210	0.66	0.22	28.0	0.47	24.4	8.2	44	1.28	2.9
H247316		4.56	<0.01	0.06	1.88	30	850	0.67	0.10	25.4	0.17	33.3	8.5	52	1.46	3.5
H247317		3.66	0.01	0.23	0.79	87	2190	0.44	0.10	23.4	1.24	12.25	4.6	24	0.70	3.7
H247318		0.28	5.52	0.24	0.12	>10000	100	<0.05	464	8.17	0.05	38.7	1.6	13	0.81	36.1
H247319		4.56	0.01	0.40	0.85	209	600	0.34	0.99	33.5	1.96	18.00	4.6	24	0.67	3.7
H247320		4.96	0.01	0.17	0.37	346	100	0.29	1.91	18.80	0.63	7.47	1.5	5	0.97	3.3
H247321		2.42	0.01	0.57	0.69	131	90	0.49	4.34	18.20	2.06	7.94	2.2	11	2.08	4.4
H247322		2.86	1.53	0.53	2.40	>10000	440	1.01	74.7	11.60	0.94	12.50	11.2	47	3.28	19.4
H247323		4.06	<0.01	0.02	0.11	13	30	0.06	0.09	18.45	0.06	3.20	0.9	1	0.22	1.6
H247324		2.98	0.03	0.77	1.61	611	190	1.42	11.85	13.95	1.51	12.05	5.0	26	3.00	8.4
H247325		2.56	0.01	0.13	0.06	114	20	0.16	1.07	17.50	0.68	5.89	0.9	2	0.14	1.6
H247326		1.68	0.12	0.48	1.75	1150	290	0.93	16.70	14.70	1.75	22.8	7.5	31	4.24	6.1
H247327		1.62	0.19	1.98	2.79	3430	540	1.44	16.45	11.50	6.65	23.5	6.7	37	3.95	14.1
H247328		1.98	0.01	0.13	0.98	457	120	0.48	1.80	17.45	1.32	14.65	2.7	16	3.51	3.1
H247329		0.16	0.02	1.84	1.24	>10000	840	1.03	4.68	1.24	20.4	42.2	10.3	14	2.58	7.4
H247330		0.42	0.04	1.94	1.06	>10000	1120	1.30	10.60	0.35	24.3	44.6	8.9	12	2.12	8.4
H247331		0.58	0.06	0.86	1.08	3470	880	0.68	2.02	16.65	10.55	22.4	3.5	18	0.93	4.4
H247332		3.90	0.01	0.46	0.94	335	450	0.61	2.29	17.45	2.15	11.60	2.9	20	2.21	3.7
H247333		5.22	0.01	0.60	0.74	87	120	0.41	1.72	17.75	7.80	8.63	1.8	10	0.72	5.5
H247334		2.52	0.02	0.53	2.17	195	300	1.00	1.42	15.95	6.23	12.75	1.5	31	1.34	5.8
H247335		0.28	0.49	0.89	0.78	4010	130	0.32	101.5	11.80	0.17	37.0	5.7	13	2.23	30.6
H247336		3.64	0.02	0.42	0.41	658	120	0.28	1.98	18.55	4.83	8.19	1.4	5	0.49	5.8
H247337		3.22	<0.01	0.18	0.29	31	120	0.18	0.73	22.2	0.20	6.61	1.4	6	0.33	2.8
H247338		0.84	0.01	0.44	0.19	42	90	0.12	2.28	22.9	0.23	4.02	1.3	6	0.18	3.0
H247339		2.20	0.78	>100	0.10	>10000	3310	<0.05	5260	1.02	3.17	5.69	22.9	1	0.17	84.0
H247340		3.40	0.60	34.5	0.11	>10000	1530	<0.05	786	0.45	3.28	8.51	11.9	1	0.14	138.0
H247341		0.88	0.38	50.5	0.24	>10000	4640	0.05	427	0.39	3.56	12.25	9.0	2	0.27	115.5
H247342		2.14	0.40	84.9	0.20	>10000	4280	<0.05	1660	0.35	2.69	9.09	49.8	1	0.17	142.0
H247343		3.86	<0.01	0.14	0.08	34	40	0.08	2.28	19.10	0.06	1.55	0.8	1	0.19	1.5

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Project: RAU

Finalized Date: 23-JUL-2009
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CERTIFICATE OF ANALYSIS VA09073272

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H247308		4.87	14.50	0.15	0.5	0.098	1.96	23.7	4.8	0.24	4330	0.21	0.07	26.1	24.1	1920
H247309		4.76	20.8	0.23	1.1	0.107	3.27	49.4	5.6	0.48	1200	0.20	0.12	49.6	48.8	1590
H247310		2.33	21.0	0.23	2.2	0.081	3.23	50.1	6.0	0.79	606	0.27	0.12	53.0	78.7	1200
H247311		5.10	1.15	0.09	0.1	0.060	0.07	5.5	1.6	9.16	953	0.31	0.01	1.1	4.0	160
H247312		7.06	1.13	0.10	0.1	0.078	0.07	5.5	1.4	8.05	1120	0.39	0.01	1.0	4.6	170
H247313		5.47	1.19	0.08	0.1	0.078	0.06	4.9	2.0	9.26	1220	0.31	0.01	1.1	4.1	150
H247314		2.84	1.41	0.06	0.2	0.088	0.10	4.7	2.1	10.50	1440	0.27	0.01	1.6	3.7	130
H247315		1.83	4.20	0.09	0.6	0.022	0.79	13.8	5.5	1.00	463	0.30	0.07	9.5	19.3	500
H247316		2.04	4.97	0.11	0.9	0.020	0.92	18.3	6.3	1.03	437	0.31	0.03	12.9	20.0	640
H247317		1.13	2.05	0.07	0.4	0.019	0.36	7.7	5.3	0.14	922	0.28	0.03	5.1	17.4	220
H247318		23.0	1.00	0.27	0.1	0.062	0.07	24.3	1.6	4.61	1420	10.75	0.01	1.6	11.7	60
H247319		1.40	2.22	0.07	0.5	0.013	0.39	10.5	2.8	0.21	654	0.17	0.02	5.9	11.8	250
H247320		1.85	1.66	0.05	0.2	0.034	0.14	5.3	3.4	10.90	1400	0.10	0.02	1.9	3.0	130
H247321		1.92	3.27	0.06	0.4	0.199	0.36	5.6	3.6	10.65	2490	0.12	0.01	4.5	6.3	170
H247322		10.70	12.25	0.15	1.3	0.227	1.06	6.5	5.0	4.25	4210	0.57	0.03	9.3	34.8	590
H247323		0.41	0.39	0.18	<0.1	<0.005	0.05	1.5	1.5	11.75	187	0.09	0.01	0.5	1.2	230
H247324		2.25	7.78	0.10	0.9	0.334	0.75	8.2	6.1	8.20	2910	0.47	0.03	8.8	15.9	390
H247325		1.05	0.34	0.08	<0.1	0.021	0.03	5.0	1.6	10.70	1020	0.17	0.01	0.3	2.9	40
H247326		5.36	6.31	0.10	1.0	0.029	0.78	18.6	6.3	9.15	1410	0.71	0.02	9.5	31.1	470
H247327		12.15	10.80	0.17	1.5	0.192	1.05	14.1	8.6	6.81	1800	1.86	0.04	12.7	22.1	920
H247328		2.51	3.35	0.08	0.6	0.013	0.34	11.4	5.9	9.67	1020	0.31	0.01	6.4	5.2	330
H247329		48.9	3.55	0.48	0.6	0.083	0.36	27.4	1.4	0.68	4160	3.95	0.02	2.0	34.8	440
H247330		>50	2.99	0.51	0.4	0.177	0.24	27.4	1.8	0.19	4000	4.38	0.02	1.5	29.0	590
H247331		10.55	4.92	0.13	0.5	0.192	0.35	12.9	3.9	6.37	3490	1.14	0.04	4.2	9.1	870
H247332		2.25	4.49	0.06	0.6	0.071	0.41	7.9	4.1	9.66	1780	0.34	0.03	5.7	5.1	310
H247333		2.35	3.90	0.06	0.5	0.131	0.25	5.6	4.0	10.30	3080	0.55	0.03	4.9	3.8	410
H247334		3.75	12.05	0.09	1.7	0.399	0.59	6.8	5.8	8.57	3700	0.60	0.10	16.0	3.7	990
H247335		14.25	3.73	0.21	0.2	0.076	0.39	20.7	5.2	6.49	2000	18.35	0.02	3.6	20.6	230
H247336		3.62	1.93	0.07	0.2	0.042	0.17	5.1	2.8	10.40	2260	0.41	0.01	2.2	3.9	180
H247337		0.52	0.76	0.08	0.1	0.006	0.12	3.8	2.9	8.58	370	0.35	0.01	1.4	3.0	30
H247338		0.52	0.51	0.11	0.1	<0.005	0.09	2.5	1.8	7.06	284	0.36	0.01	0.8	2.8	40
H247339		>50	2.54	1.84	<0.1	0.859	0.02	3.4	<0.2	0.27	438	9.37	0.04	0.7	15.5	340
H247340		>50	1.16	0.55	0.1	0.616	0.02	5.3	0.2	0.14	443	9.86	0.02	0.4	12.1	350
H247341		>50	1.57	0.45	0.1	0.871	0.04	6.3	0.7	0.13	775	7.46	0.05	0.5	13.8	310
H247342		>50	1.61	0.46	0.2	1.250	0.06	4.8	0.6	0.12	276	4.70	0.05	1.2	16.5	220
H247343		0.53	0.25	<0.05	<0.1	<0.005	0.03	0.7	1.2	12.20	181	0.15	0.01	0.4	0.4	220

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H247308		8.0	55.9	<0.002	0.01	3.03	10.9	2	2.1	60.6	1.47	<0.05	2.9	0.736	0.35	1.1
H247309		4.1	96.5	<0.002	<0.01	3.12	16.9	2	2.1	69.6	3.00	<0.05	5.2	1.495	0.64	1.4
H247310		3.1	91.5	<0.002	0.02	3.63	17.1	2	2.1	83.6	3.09	<0.05	5.2	1.580	0.59	1.8
H247311		3.1	3.7	<0.002	0.01	3.95	1.0	3	0.3	33.0	0.06	0.05	0.3	0.024	0.04	0.4
H247312		3.3	3.5	<0.002	0.01	5.26	1.1	3	0.4	31.5	0.05	0.05	0.3	0.020	0.05	0.5
H247313		4.6	3.4	<0.002	0.01	2.68	0.8	3	0.3	38.6	0.06	<0.05	0.3	0.021	0.04	0.4
H247314		3.5	6.1	<0.002	0.01	1.11	0.9	2	0.3	55.6	0.08	<0.05	0.3	0.031	0.05	0.3
H247315		24.9	36.5	<0.002	0.21	1.59	4.7	2	0.4	404	0.53	<0.05	1.5	0.246	0.17	0.6
H247316		13.0	42.3	<0.002	0.04	2.31	5.7	2	0.5	338	0.70	<0.05	2.0	0.311	0.23	0.8
H247317		27.7	16.3	<0.002	0.08	2.18	2.4	2	0.3	293	0.26	<0.05	0.9	0.128	0.12	0.8
H247318		5.9	8.6	0.002	>10.0	23.3	0.4	8	2.1	56.8	0.10	1.42	0.4	0.009	0.15	0.5
H247319		20.9	16.1	<0.002	0.05	1.89	3.0	2	0.3	163.5	0.32	<0.05	1.0	0.148	0.11	0.6
H247320		30.3	17.2	<0.002	0.35	0.62	1.6	2	0.5	75.1	0.10	<0.05	0.3	0.046	0.19	0.3
H247321		36.7	48.3	<0.002	0.09	0.90	1.8	2	5.5	55.2	0.25	<0.05	0.6	0.104	0.39	0.7
H247322		44.5	78.3	<0.002	0.73	11.60	5.7	2	6.8	111.5	0.52	0.18	2.1	0.231	2.02	2.6
H247323		1.5	2.2	<0.002	0.01	0.14	0.4	2	<0.2	45.1	<0.05	<0.05	0.2	0.006	<0.02	0.6
H247324		66.3	83.3	<0.002	0.14	1.21	4.1	2	19.4	66.8	0.49	0.05	1.6	0.198	0.63	0.9
H247325		37.7	3.7	<0.002	0.09	0.33	0.6	2	0.3	75.3	<0.05	<0.05	<0.2	0.005	0.06	0.2
H247326		59.9	60.6	<0.002	0.01	1.01	4.5	2	2.3	68.5	0.54	0.05	1.9	0.224	0.62	1.3
H247327		69.9	84.6	<0.002	0.02	2.80	5.9	3	8.4	56.7	0.73	0.17	3.6	0.294	0.65	2.3
H247328		3.7	45.0	<0.002	0.01	0.75	2.5	2	0.8	83.1	0.36	0.07	1.1	0.124	0.32	0.6
H247329		73.1	32.2	<0.002	0.04	15.90	3.6	5	0.7	21.8	0.12	0.07	1.0	0.053	0.75	2.9
H247330		70.5	17.7	<0.002	0.05	11.95	4.2	8	1.8	23.4	0.09	0.05	0.9	0.044	0.35	3.1
H247331		36.7	34.3	<0.002	0.04	3.13	4.0	3	3.0	80.2	0.24	<0.05	1.1	0.089	0.45	1.4
H247332		38.0	51.4	<0.002	0.12	0.92	2.1	2	2.0	78.5	0.32	0.05	1.1	0.113	0.35	0.8
H247333		39.5	26.1	<0.002	0.13	3.33	1.6	2	3.0	70.5	0.27	0.05	1.0	0.095	0.18	0.7
H247334		117.5	59.4	<0.002	0.19	1.36	4.2	3	7.1	87.8	0.89	<0.05	3.0	0.279	0.42	1.8
H247335		13.9	36.1	0.015	>10.0	4.58	1.9	7	3.2	87.2	0.20	0.20	0.8	0.090	0.27	0.5
H247336		75.8	14.8	<0.002	0.10	1.27	1.4	3	0.6	54.6	0.12	<0.05	0.5	0.045	0.18	0.4
H247337		5.2	5.0	<0.002	0.02	0.82	1.3	2	0.3	84.7	0.07	<0.05	0.3	0.025	0.08	0.2
H247338		5.1	2.9	<0.002	0.01	0.73	1.0	2	0.2	86.3	<0.05	<0.05	0.2	0.015	0.05	0.2
H247339		2500	0.8	<0.002	0.18	102.5	0.9	49	26.6	21.1	<0.05	6.25	0.3	<0.005	<0.02	1.9
H247340		896	1.0	<0.002	0.09	32.7	0.5	8	73.9	8.6	0.05	1.19	0.2	0.007	<0.02	2.1
H247341		627	1.6	<0.002	0.18	46.4	2.5	3	63.8	19.0	<0.05	0.96	0.3	0.011	0.11	2.3
H247342		1085	2.4	<0.002	0.23	146.5	0.6	9	133.5	32.1	<0.05	2.30	0.2	0.036	0.20	1.7
H247343		2.8	1.6	<0.002	0.01	0.19	0.3	2	0.2	46.6	<0.05	<0.05	<0.2	<0.005	<0.02	0.5

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212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Project: RAU

Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073272

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62
	Analyte	V	W	Y	Zn	Zr	Ag
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5	1
H247308		113	35.0	14.6	2980	15.0	
H247309		204	9.3	19.3	1020	41.0	
H247310		195	2.6	22.4	149	91.6	
H247311		10	3.3	9.3	56	5.8	
H247312		10	3.6	10.7	75	5.8	
H247313		8	3.0	9.1	80	5.9	
H247314		8	1.5	9.0	31	7.6	
H247315		34	1.1	10.7	143	23.5	
H247316		45	1.7	13.2	80	33.5	
H247317		27	4.7	10.4	333	18.4	
H247318		7	35.9	4.5	9	4.9	
H247319		25	18.4	10.2	378	20.1	
H247320		9	1.2	5.9	171	6.9	
H247321		27	3.8	6.5	347	18.1	
H247322		73	13.9	10.5	438	55.9	
H247323		2	0.2	1.1	13	0.5	
H247324		39	7.1	8.6	287	34.5	
H247325		6	0.7	6.8	177	2.2	
H247326		45	6.6	13.3	1210	41.4	
H247327		70	17.7	20.2	1550	63.2	
H247328		34	6.3	11.6	263	21.5	
H247329		32	58.4	36.0	5370	29.1	
H247330		27	83.4	38.8	4830	20.0	
H247331		35	47.4	20.4	1680	23.1	
H247332		41	5.1	7.9	487	25.1	
H247333		21	4.8	6.6	1690	22.9	
H247334		67	11.2	9.4	1020	66.0	
H247335		18	63.4	7.4	34	7.3	
H247336		10	2.6	6.8	929	7.3	
H247337		5	0.8	4.5	29	5.7	
H247338		4	1.8	3.5	28	3.4	
H247339		5	730	1.9	1680	8.7	155
H247340		5	44.7	2.7	1980	3.2	
H247341		11	57.4	6.6	2390	3.4	
H247342		10	211	3.5	2160	10.8	
H247343		2	0.5	0.9	19	<0.5	

***** See Appendix Page for comments regarding this certificate *****

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Page: Appendix 1
Total # Appendix Pages: 1
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CERTIFICATE OF ANALYSIS VA09073272

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

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CERTIFICATE VA09073271

Project: RAU

P.O. No.: Batch 14

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 16-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09073271

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247272		3.20	0.14	0.19	0.75	1350	530	0.42	8.48	17.20	0.22	8.00	2.5	11	1.03	3.9
H247273		11.02	0.23	0.23	2.18	50	560	0.63	17.05	23.2	0.06	27.7	10.7	92	1.30	5.0
H247274		10.84	0.16	0.09	0.66	443	210	0.31	4.46	17.75	0.08	9.13	1.9	20	0.58	2.4
H247275		0.28	0.46	0.86	0.76	4460	120	0.31	87.2	11.70	0.14	33.1	5.4	13	2.04	29.0
H247276		11.52	0.13	0.08	1.11	411	240	0.50	18.40	16.05	0.19	10.80	8.6	25	1.15	4.3
H247277		8.62	0.11	0.85	0.79	1260	170	0.41	67.7	16.20	1.47	10.90	6.7	18	0.86	14.8
H247278		6.30	2.34	30.5	0.64	>10000	220	0.31	179.0	11.70	23.7	10.05	5.9	11	0.64	22.5
H247279		3.96	<0.01	0.04	0.09	57	20	0.10	0.50	19.00	0.08	1.43	1.0	1	0.19	2.0
H247280		11.30	0.07	2.19	0.14	2810	80	0.10	37.4	17.75	4.25	9.64	1.6	3	0.32	3.8
H247281		3.14	0.05	1.12	0.08	2310	270	0.09	11.90	18.65	4.92	14.05	1.9	1	0.30	2.7
H247282		7.20	0.01	0.33	0.06	380	90	0.05	16.05	18.75	0.83	13.00	0.6	<1	0.48	1.2
H247283		11.72	0.08	0.33	0.05	6290	40	0.05	23.8	18.30	0.71	13.60	0.8	<1	0.59	1.1
H247284		6.20	0.02	0.53	0.21	1210	40	0.13	14.90	17.95	1.11	12.30	0.6	3	0.72	2.2
H247285		2.94	0.04	0.87	0.17	1350	30	0.08	13.25	18.45	0.99	11.85	0.6	3	0.80	2.1
H247286		7.50	0.02	0.89	0.11	1220	50	0.08	23.0	18.40	2.40	13.60	1.2	1	0.61	5.0
H247287		8.12	4.16	9.72	0.11	1210	510	0.10	154.0	17.90	6.19	14.25	2.7	<1	0.51	9.7
H247288		11.74	0.05	4.82	0.20	618	1130	0.12	93.5	17.95	4.02	11.30	1.0	3	0.44	8.9
H247289		8.50	0.21	1.23	0.05	244	60	0.08	22.2	18.45	3.49	10.25	1.9	1	0.30	8.2
H247290		5.02	0.02	1.19	0.43	1950	330	0.29	14.95	21.2	5.82	11.90	5.4	3	1.04	4.7
H247291		3.36	<0.01	0.04	0.32	45	100	0.17	0.72	33.8	0.46	5.60	1.1	5	0.71	1.0
H247292		7.86	<0.01	0.05	0.12	37	40	0.08	0.25	33.3	0.44	3.42	1.0	4	0.19	0.8
H247293		10.22	0.05	0.32	1.19	96	180	0.51	4.20	27.9	0.98	16.65	5.6	22	3.13	3.8
H247294		9.44	0.02	1.07	0.99	277	170	0.48	4.04	18.55	1.83	11.00	3.2	14	1.92	5.1
H247295		5.68	0.02	0.89	1.59	2000	390	0.75	3.35	21.8	3.37	26.3	5.8	29	3.08	5.2
H247296		8.18	0.01	0.64	0.65	265	140	0.43	2.24	18.70	1.40	8.56	2.0	15	0.72	2.7
H247297		3.44	0.31	5.43	1.03	5960	890	0.51	14.25	15.85	19.55	23.8	8.3	11	0.91	41.2
H247298		0.28	5.65	0.28	0.12	>10000	30	<0.05	460	8.20	0.09	39.2	1.7	13	0.83	37.4
H247299		9.42	0.01	0.52	0.50	299	70	0.36	3.48	18.05	1.18	7.51	5.5	11	1.15	4.8
H247300		10.36	0.02	0.40	0.64	209	70	0.28	5.34	17.40	1.20	11.75	3.7	10	1.39	2.9
H247301		7.58	0.06	0.34	1.59	1220	240	0.59	9.94	12.75	2.42	23.4	7.2	17	3.91	8.6
H247302		7.58	0.77	1.74	4.62	7300	1220	2.00	34.6	5.93	15.20	39.5	10.8	50	3.35	23.3
H247303		8.72	0.03	0.53	1.34	1180	430	0.57	1.52	17.95	10.45	11.75	2.1	12	1.03	8.2
H247304		4.96	0.12	2.62	10.55	919	3140	4.00	7.20	0.81	17.30	69.1	8.3	82	10.35	23.2
H247305		4.32	0.07	2.80	8.33	292	4720	2.87	1.41	3.59	80.2	101.0	31.9	51	8.35	41.1
H247306		3.84	0.02	0.17	5.30	450	2680	1.90	1.19	9.52	38.3	37.9	28.4	28	4.31	9.6
H247307		6.20	0.01	0.66	7.21	2200	8570	2.84	4.63	0.70	35.7	60.9	31.7	46	5.78	15.9

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247272		3.18	3.21	0.12	0.5	0.01	0.061	0.34	5.1	7.0	10.30	887	0.37	0.01	4.3	8.1
H247273		3.48	7.87	0.14	1.0	0.01	0.072	1.00	16.6	4.9	1.22	1310	0.41	0.03	12.1	28.2
H247274		3.06	3.75	0.10	0.6	<0.01	0.065	0.31	5.9	4.0	10.00	1880	0.58	0.02	5.0	5.0
H247275		14.05	3.50	0.22	0.2	0.01	0.067	0.38	19.3	4.6	6.35	1960	17.15	0.02	3.2	19.6
H247276		4.67	6.41	0.11	0.7	<0.01	0.105	0.50	6.0	5.0	8.72	4200	0.75	0.02	4.7	17.5
H247277		4.95	4.82	0.12	0.5	<0.01	0.175	0.37	5.5	3.5	8.83	4940	0.43	0.02	3.7	11.3
H247278		16.40	4.37	0.19	0.4	0.05	0.355	0.26	4.5	2.5	5.84	6070	0.38	0.02	1.8	13.7
H247279		0.46	0.34	0.19	<0.1	<0.01	0.006	0.03	0.7	1.2	12.10	205	0.17	0.01	0.4	1.1
H247280		7.68	1.10	0.12	0.1	0.01	0.164	0.05	4.0	2.0	8.78	5340	0.16	0.01	0.6	1.4
H247281		6.13	0.65	0.10	0.1	<0.01	0.242	0.02	6.3	2.3	9.48	5270	0.19	0.01	0.2	1.7
H247282		5.00	0.63	0.09	<0.1	<0.01	0.313	0.03	5.2	2.6	9.45	6340	0.12	0.02	0.2	<0.2
H247283		5.09	0.53	0.09	<0.1	<0.01	0.298	0.02	5.6	2.9	9.69	5250	0.06	0.02	0.2	1.5
H247284		4.50	1.49	0.08	0.1	<0.01	0.242	0.08	5.3	3.1	9.77	4920	0.15	0.02	0.7	0.4
H247285		4.42	1.20	0.08	0.1	<0.01	0.259	0.07	5.1	3.2	10.10	4890	0.09	0.02	0.6	0.3
H247286		5.21	0.97	0.09	0.1	<0.01	0.228	0.05	5.6	2.3	9.58	5780	0.15	0.01	0.4	0.8
H247287		8.07	0.84	0.12	0.1	0.01	0.350	0.03	5.6	1.7	7.92	8550	0.21	0.01	0.2	6.2
H247288		5.21	1.39	0.08	0.1	<0.01	0.187	0.09	5.1	2.2	9.52	5600	0.13	0.02	0.8	1.4
H247289		5.29	0.56	0.08	<0.1	<0.01	0.066	0.02	4.5	2.2	9.93	5900	0.10	0.01	0.2	4.1
H247290		12.00	1.79	0.14	0.2	0.01	0.038	0.16	7.9	1.7	3.58	8570	0.48	0.01	1.8	13.1
H247291		0.64	1.04	0.07	0.2	<0.01	0.017	0.13	5.8	1.6	1.34	467	0.09	0.01	2.0	1.6
H247292		0.53	0.41	0.06	0.1	<0.01	0.017	0.05	4.0	0.5	1.21	464	0.05	<0.01	0.8	<0.2
H247293		1.23	3.84	0.09	0.7	<0.01	0.033	0.57	13.1	3.5	2.78	844	0.31	0.02	6.8	14.6
H247294		2.09	3.50	0.08	0.6	<0.01	0.042	0.41	8.7	2.9	9.23	1540	0.32	0.02	5.8	8.6
H247295		8.42	6.88	0.13	1.0	<0.01	0.792	0.68	17.4	2.5	1.80	3530	0.48	0.02	7.4	13.5
H247296		2.61	3.49	0.08	0.5	<0.01	0.230	0.26	5.7	2.5	10.30	3050	0.21	0.02	4.1	3.2
H247297		18.50	4.89	0.20	0.5	0.02	0.438	0.36	13.3	1.8	2.76	7430	1.01	0.03	3.3	20.1
H247298		23.1	1.04	0.30	0.1	<0.01	0.065	0.07	25.2	1.6	4.62	1440	11.05	0.01	1.4	12.2
H247299		2.28	2.33	0.06	0.3	<0.01	0.121	0.21	5.4	2.5	10.10	2200	0.38	0.02	2.9	6.4
H247300		2.63	2.72	0.07	0.4	<0.01	0.012	0.21	8.9	2.7	10.60	1160	0.29	0.02	4.5	8.3
H247301		9.57	5.42	0.14	0.8	<0.01	0.026	0.62	17.1	5.7	7.74	1760	0.41	0.01	6.9	21.0
H247302		17.55	22.5	0.24	1.7	0.01	0.204	1.88	18.3	7.7	1.00	2820	0.95	0.04	7.3	34.2
H247303		5.66	7.14	0.10	0.7	<0.01	0.171	0.59	5.1	4.4	8.85	4030	0.47	0.02	5.5	5.3
H247304		8.38	42.8	0.27	0.4	0.07	0.169	5.06	39.3	23.4	0.88	621	0.41	0.11	26.1	32.9
H247305		7.61	29.5	0.26	0.6	0.10	0.124	4.05	45.7	14.5	0.41	6900	0.62	0.12	37.5	80.4
H247306		15.40	16.35	0.24	0.4	0.02	0.098	2.26	17.1	6.7	0.27	12650	0.42	0.07	19.9	53.7
H247307		22.3	22.1	0.46	0.5	0.10	0.151	3.00	27.2	5.6	0.30	3760	0.80	0.15	20.7	86.2

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247272		280	2.5	15.5	<0.002	0.01	2.80	1.7	3	0.6	46.4	0.24	0.06	0.8	0.093	0.15
H247273		810	5.1	37.9	<0.002	0.37	3.54	5.6	3	1.9	234	0.67	0.06	1.8	0.342	0.29
H247274		250	4.5	13.0	<0.002	0.29	1.17	2.2	2	1.0	109.0	0.25	<0.05	0.7	0.124	0.20
H247275		220	11.8	30.7	0.015	>10.0	4.09	1.8	6	3.0	82.8	0.18	0.21	0.7	0.084	0.26
H247276		300	7.9	25.4	<0.002	0.30	1.57	3.5	2	2.1	101.0	0.25	0.07	1.1	0.134	0.37
H247277		260	61.3	22.3	0.002	0.42	2.94	2.8	2	3.6	106.0	0.21	0.07	0.7	0.104	0.26
H247278		200	663	17.0	<0.002	2.63	8.62	1.3	4	6.2	103.5	0.09	0.57	1.0	0.055	0.30
H247279		230	1.4	1.3	<0.002	0.01	0.07	0.3	2	<0.2	50.1	<0.05	<0.05	<0.2	0.006	<0.02
H247280		100	159.0	3.8	<0.002	0.76	1.76	0.6	3	1.1	114.0	<0.05	0.17	<0.2	0.014	0.05
H247281		60	100.0	1.6	<0.002	0.05	1.07	0.6	3	0.5	84.5	<0.05	0.10	<0.2	<0.005	0.08
H247282		50	17.9	2.1	<0.002	0.06	0.50	0.4	2	0.4	128.0	<0.05	<0.05	0.2	<0.005	0.03
H247283		40	23.1	2.3	<0.002	0.16	1.61	0.4	3	0.3	142.0	<0.05	0.16	<0.2	<0.005	0.08
H247284		100	44.6	9.3	<0.002	0.21	0.96	0.7	2	1.0	121.5	<0.05	0.06	<0.2	0.018	0.13
H247285		90	40.2	7.8	0.002	0.19	0.91	0.6	2	0.7	123.5	<0.05	0.06	<0.2	0.015	0.13
H247286		110	76.2	5.5	0.002	0.22	1.38	0.8	3	0.7	116.0	<0.05	0.06	0.3	0.008	0.13
H247287		100	152.0	3.0	0.004	0.23	2.74	0.9	3	0.9	98.5	<0.05	0.14	0.8	<0.005	0.50
H247288		100	172.0	7.7	<0.002	0.38	2.36	0.8	2	1.0	110.5	<0.05	0.07	<0.2	0.019	0.15
H247289		60	106.5	2.4	<0.002	0.05	1.00	0.8	3	1.0	83.9	<0.05	<0.05	<0.2	<0.005	0.07
H247290		180	69.9	13.0	<0.002	0.04	1.20	1.4	2	1.1	80.3	0.10	0.06	0.4	0.047	1.18
H247291		110	5.0	9.3	<0.002	0.03	0.15	1.0	2	0.3	130.0	0.10	<0.05	0.3	0.045	0.07
H247292		80	4.2	3.9	<0.002	0.01	0.14	0.5	2	<0.2	132.0	<0.05	0.05	<0.2	0.017	0.05
H247293		280	32.1	49.1	<0.002	0.09	0.68	3.3	3	1.1	160.0	0.37	0.11	1.2	0.164	0.31
H247294		290	65.7	43.6	<0.002	0.02	0.88	2.5	2	2.2	77.7	0.32	0.05	1.0	0.127	0.32
H247295		490	36.7	67.0	<0.002	0.03	1.46	3.5	3	7.7	102.0	0.44	0.09	1.6	0.156	0.59
H247296		400	18.6	28.0	<0.002	0.01	0.43	1.7	2	8.2	60.5	0.22	0.05	0.9	0.079	0.17
H247297		570	212	33.2	<0.002	0.06	3.99	3.6	3	8.3	49.1	0.19	0.19	1.1	0.075	0.42
H247298		60	5.9	8.3	0.002	>10.0	23.4	0.4	8	2.2	58.3	0.08	1.51	0.4	0.008	0.16
H247299		290	28.5	27.7	<0.002	0.06	0.72	1.3	2	6.0	52.7	0.17	0.09	0.5	0.057	0.18
H247300		470	24.1	25.1	<0.002	0.03	0.61	1.6	2	0.8	48.8	0.24	0.14	0.8	0.081	0.18
H247301		770	23.9	57.5	<0.002	0.02	1.39	3.3	3	1.2	42.9	0.38	0.09	1.5	0.159	0.55
H247302		1850	150.0	109.5	<0.002	0.04	9.23	9.4	5	5.5	75.0	0.40	0.18	4.6	0.194	1.46
H247303		730	103.5	37.6	<0.002	0.08	1.70	4.2	3	3.2	98.7	0.32	<0.05	3.8	0.119	0.31
H247304		2020	199.5	226	<0.002	0.28	5.77	24.1	6	11.3	85.4	1.47	0.07	5.9	0.663	2.59
H247305		2170	211	190.5	<0.002	0.10	12.35	18.8	4	12.5	48.8	2.08	<0.05	4.7	0.987	2.42
H247306		4040	30.4	107.5	<0.002	0.05	8.71	12.2	6	4.8	72.0	1.13	<0.05	3.8	0.586	1.37
H247307		4390	63.1	107.0	<0.002	0.25	44.5	16.4	8	5.5	133.0	1.18	<0.05	4.7	0.574	5.85

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

Project: RAU

Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073271

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001
H247272		0.5	17	2.7	7.0	46	14.2	
H247273		0.9	68	4.7	13.7	45	36.2	
H247274		0.6	20	4.2	5.2	48	19.4	
H247275		0.4	17	57.1	6.8	30	4.8	
H247276		1.0	31	7.5	9.2	74	25.1	
H247277		0.8	25	16.7	10.0	271	17.9	
H247278		1.0	14	165.0	6.7	4040	15.0	
H247279		0.5	2	0.4	1.0	20	0.6	
H247280		0.3	4	16.9	7.5	546	3.4	
H247281		0.2	4	5.4	10.4	541	2.5	
H247282		0.1	2	0.7	10.1	160	1.5	
H247283		0.2	2	7.9	9.1	158	1.2	
H247284		0.3	6	3.7	9.6	278	5.1	
H247285		0.4	5	0.8	9.0	227	3.8	
H247286		0.7	5	204	12.3	497	2.9	
H247287		0.7	4	580	16.2	1320	3.1	
H247288		0.3	5	14.6	10.7	956	4.3	
H247289		0.2	3	75.0	13.5	839	1.7	
H247290		0.9	9	6.4	13.7	1720	9.4	
H247291		0.5	5	1.2	6.2	156	4.9	
H247292		0.3	3	1.7	4.7	87	3.1	
H247293		0.9	32	3.5	12.0	203	25.4	
H247294		0.7	27	4.6	7.8	424	20.2	
H247295		1.6	48	11.7	17.5	1120	38.9	
H247296		0.6	22	4.4	6.6	315	15.4	
H247297		1.7	32	15.5	20.6	3710	19.1	
H247298		0.5	6	36.2	4.6	17	4.4	
H247299		0.5	30	3.5	6.5	238	12.3	
H247300		0.6	23	2.7	7.6	240	16.2	
H247301		1.3	51	6.7	15.2	733	27.6	
H247302		3.7	113	90.8	23.9	1400	60.6	
H247303		1.0	32	13.1	9.7	1110	22.7	
H247304		1.7	212	33.7	7.8	3540	13.9	
H247305		1.2	214	55.2	15.5	>10000	19.9	1.185
H247306		3.0	128	110.0	18.7	7480	6.9	
H247307		3.5	183	286	20.6	6850	18.2	

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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073271

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

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Finalized Date: 25-JUL-2009
Account: RCM

CERTIFICATE VA09073270

Project: RAU

P.O. No.: Batch 16

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 16-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 25-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073270

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H247344		1.12	17.30	>100	1.69	>10000	420	0.40	7330	0.27	5.17	10.20	7.7	22	0.19	33.2
H247345		2.14	2.47	6.63	0.22	330	1100	0.09	33.2	0.07	0.04	15.35	0.2	18	0.12	0.3
H247346		0.32	0.64	6.87	0.35	104.5	1870	0.16	14.90	0.08	<0.02	29.8	0.3	28	0.22	5.5
H247347		1.44	2.29	10.90	1.00	932	3440	0.25	39.1	0.09	0.06	12.40	0.5	26	0.21	4.7
H247348		3.58	0.01	0.07	0.05	<5	20	0.08	0.95	17.75	0.05	0.85	1.1	1	0.17	1.3
H247349		3.26	5.05	12.80	0.34	>10000	990	0.09	1350	0.42	<0.02	6.44	1.7	7	0.20	7.0
H247350		1.18	10.85	2.84	0.12	>10000	550	0.21	721	0.46	0.12	9.56	1.4	<1	<0.05	4.2
H247351		4.64	2.78	0.49	0.17	>10000	590	0.14	964	0.39	0.11	10.35	1.7	<1	0.10	3.0
H247352		4.24	7.05	0.49	0.39	>10000	820	0.16	535	0.45	0.20	8.63	1.6	<1	<0.05	3.8
H247353		1.82	5.93	0.39	0.44	>10000	1000	0.11	319	0.54	0.16	11.80	3.0	<1	0.07	5.6
H247354		7.50	2.44	0.32	0.28	>10000	530	0.18	753	0.33	0.05	261	2.3	4	0.06	5.5
H247355		4.38	1.35	0.52	0.69	>10000	630	0.37	391	0.48	0.29	13.75	3.9	7	0.41	19.4
H247356		2.06	1.18	0.40	0.71	>10000	620	0.37	403	0.47	0.20	10.10	3.2	6	0.40	16.3
H247357		4.34	0.55	0.24	2.11	5580	750	0.70	125.5	8.43	0.15	19.60	4.5	20	6.36	11.8
H247358		2.40	0.63	0.38	0.58	4490	260	0.19	135.5	2.41	0.09	8.84	2.1	7	0.65	3.5
H247359		3.38	5.09	1.44	0.87	6700	330	0.28	338	10.75	0.12	16.15	2.1	6	0.79	4.9
H247360		0.28	5.56	0.21	0.12	>10000	30	0.06	455	8.92	0.06	37.4	1.9	12	0.75	41.1
H247361		7.78	2.44	0.29	0.84	>10000	1020	0.31	252	3.78	0.16	23.3	2.3	5	0.58	3.6
H247362		3.62	1.76	0.33	0.86	>10000	270	0.21	475	0.81	0.11	36.1	2.1	6	0.36	5.1
H247363		2.14	0.95	0.16	0.71	9070	260	0.33	53.7	3.98	0.29	13.70	3.5	4	1.72	11.9
H247364		6.16	0.23	0.11	0.63	2230	160	0.30	7.41	17.75	0.20	9.18	2.4	8	3.86	5.5
H247365		2.64	0.27	0.11	1.52	2470	380	0.61	8.43	16.80	0.20	11.05	3.3	12	10.80	13.4
H247366		3.94	1.03	0.52	1.28	>10000	680	0.42	307	6.91	0.58	12.60	4.1	10	2.76	8.9
H247367		2.02	0.91	0.45	1.56	7450	470	0.46	350	7.79	0.97	50.4	5.6	29	3.70	26.1
H247368		2.18	0.46	0.70	1.42	2630	410	0.47	120.0	18.90	1.81	22.4	5.1	26	4.35	16.4
H247369		2.58	0.41	0.48	1.12	3150	320	0.39	195.5	18.10	0.64	48.1	2.8	19	1.98	20.5
H247370		3.44	0.01	0.03	0.06	22	10	0.05	1.16	19.05	0.07	1.32	1.3	1	0.16	2.1
H247371		3.02	0.06	1.10	1.64	896	440	0.57	3.25	17.10	11.00	11.45	1.6	18	1.30	4.9
H247372		3.14	0.05	0.30	8.80	712	2600	3.01	3.09	4.07	0.38	79.5	20.5	62	13.05	6.2
H247373		0.28	1.67	1.33	0.12	>10000	30	0.05	315	12.35	0.66	45.1	1.4	4	0.54	13.5
H247374		4.70	0.01	0.14	4.00	90	750	1.00	0.78	22.0	0.15	62.5	21.6	20	4.93	19.1
H247375		5.02	0.01	0.21	4.31	109	690	1.11	0.29	20.7	0.64	66.4	21.2	21	2.34	19.3
H247376		5.10	0.01	0.14	4.84	81	730	1.12	0.47	19.60	0.14	70.9	37.9	23	2.87	30.1
H247377		2.50	<0.01	0.22	4.36	35	960	0.93	0.33	20.4	0.22	63.6	41.3	25	3.66	23.7
H247378		0.74	0.06	1.15	6.69	112.0	780	1.02	4.40	2.99	2.62	58.7	153.0	38	3.60	121.5
H247379		4.60	<0.01	0.44	5.86	50	670	1.26	0.17	16.80	0.31	98.3	39.4	38	4.16	35.5

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Project: RAU

Finalized Date: 25-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073270

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247344		25.6	10.50	0.27	2.2	0.8	0.053	0.45	6.3	3.3	0.62	280	4.86	0.17	6.1	7.1
H247345		0.75	1.24	0.07	1.1	<0.1	<0.005	0.03	8.6	1.3	0.06	36	0.21	0.02	14.5	1.0
H247346		0.43	2.28	<0.05	1.5	<0.1	<0.005	0.03	17.4	2.5	0.12	28	1.53	0.03	20.2	2.0
H247347		2.17	8.02	<0.05	1.5	0.1	<0.005	0.01	7.5	2.2	0.36	82	0.37	0.09	18.0	2.5
H247348		0.37	0.28	<0.05	<0.1	<0.1	0.005	0.03	0.5	0.9	11.60	174	0.15	0.01	1.2	1.1
H247349		21.1	2.11	0.28	0.9	0.1	0.032	0.01	3.8	0.9	0.18	567	1.75	0.02	9.1	7.7
H247350		39.6	1.60	1.27	0.2	0.1	0.137	0.01	3.8	1.2	2.87	1660	8.31	<0.01	0.5	6.2
H247351		43.4	1.23	0.71	0.1	0.1	0.123	0.02	4.4	0.9	1.20	2090	4.89	0.01	0.5	7.7
H247352		43.6	3.00	0.64	0.3	0.1	0.135	0.01	3.6	0.7	1.53	1790	2.76	<0.01	1.0	6.7
H247353		47.2	4.00	0.79	0.4	0.1	0.219	0.04	4.8	0.8	1.19	2160	4.54	<0.01	2.0	8.7
H247354		30.6	2.92	0.51	0.3	<0.1	0.053	0.02	181.5	0.9	4.22	1020	1.19	0.01	0.6	7.7
H247355		42.2	7.38	0.95	0.4	<0.1	0.179	0.04	6.6	1.7	1.49	1420	2.32	0.01	1.3	14.9
H247356		43.1	5.41	0.69	0.3	<0.1	0.126	0.04	4.8	1.5	1.39	1480	2.06	0.01	1.1	12.3
H247357		26.5	12.65	0.44	1.3	<0.1	0.102	0.52	9.8	9.5	2.83	1680	0.96	0.04	8.3	21.0
H247358		19.05	4.78	0.23	0.4	<0.1	0.039	0.04	4.5	2.1	3.78	1160	1.19	0.03	1.8	9.1
H247359		18.55	5.53	0.28	0.7	<0.1	0.053	0.08	8.9	3.9	6.78	2030	0.90	0.04	3.9	9.1
H247360		23.8	1.11	0.33	0.1	<0.1	0.046	0.07	24.6	1.4	4.84	1440	11.80	0.01	1.5	13.9
H247361		28.7	5.62	0.36	0.6	<0.1	0.075	0.04	13.4	2.7	4.71	1990	1.79	0.04	2.2	11.3
H247362		25.4	4.03	0.31	0.4	0.04	0.062	0.08	23.7	2.5	6.29	854	1.25	0.21	2.0	8.5
H247363		25.4	2.82	0.30	0.2	0.05	0.089	0.12	6.7	2.8	2.75	1420	0.91	0.01	1.0	13.6
H247364		6.22	2.84	0.13	0.4	0.02	0.029	0.27	5.3	5.0	9.46	1080	0.31	0.01	2.9	7.7
H247365		7.10	7.78	0.12	0.8	0.01	0.026	0.89	6.2	11.8	8.27	887	0.34	0.02	7.9	13.0
H247366		34.6	7.39	0.55	0.9	0.02	0.069	0.47	7.0	4.9	2.17	1280	1.39	0.02	4.4	15.1
H247367		19.15	7.63	0.24	0.7	0.02	0.092	0.36	32.1	7.9	2.78	1360	1.68	0.03	5.1	23.2
H247368		9.19	6.53	0.13	0.7	0.02	0.057	0.45	14.1	8.4	2.39	1280	0.79	0.02	6.2	21.4
H247369		9.24	5.29	0.17	0.5	0.01	0.065	0.38	31.6	5.0	1.59	905	0.84	0.03	5.7	10.4
H247370		0.46	0.28	0.06	<0.1	<0.01	<0.005	0.03	0.7	0.9	12.10	186	0.15	<0.01	0.4	1.0
H247371		3.83	9.51	0.08	1.3	0.01	0.118	0.75	6.7	4.0	9.45	4020	0.71	0.02	8.1	6.1
H247372		6.87	38.0	0.16	1.2	0.01	0.113	4.58	41.4	22.9	1.30	828	0.49	0.09	38.6	94.0
H247373		15.80	0.84	0.19	0.1	0.01	0.067	0.07	30.0	1.4	6.68	2090	4.65	0.01	0.6	5.6
H247374		2.98	12.80	0.09	0.3	<0.01	0.078	1.91	32.1	6.8	1.03	794	0.18	0.05	27.8	56.7
H247375		3.21	13.95	0.09	0.5	<0.01	0.068	1.97	34.0	2.4	0.70	1020	0.14	0.06	31.6	47.9
H247376		2.89	15.85	0.09	0.7	<0.01	0.075	2.13	36.3	4.4	0.97	648	0.11	0.07	35.5	80.2
H247377		2.29	14.50	0.19	1.3	<0.01	0.086	1.87	33.3	7.5	1.11	752	0.15	0.05	27.8	78.1
H247378		19.50	19.30	0.33	2.5	0.06	0.582	2.40	30.2	4.6	0.47	639	0.59	0.39	10.6	239
H247379		2.26	20.5	0.25	3.2	<0.01	0.081	2.48	49.7	4.7	1.10	649	0.18	0.09	41.3	94.7

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 25-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073270

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247344		460	7500	10.2	0.099	0.99	295	1.4	18	>500	230	0.42	11.75	0.7	0.114	0.69
H247345		20	346	1.4	<0.002	0.05	10.70	0.5	3	23.6	8.3	0.81	0.05	1.1	0.357	0.02
H247346		30	213	1.1	<0.002	0.06	12.30	0.9	2	14.9	13.2	0.89	0.07	1.8	0.521	0.02
H247347		30	216	0.6	<0.002	0.09	13.50	0.9	2	34.5	20.9	0.89	0.17	0.8	0.406	0.04
H247348		260	3.0	1.3	<0.002	<0.01	0.15	0.4	1	0.3	43.3	0.12	<0.05	<0.2	0.007	<0.02
H247349		220	1905	0.8	<0.002	0.05	102.5	0.6	45	43.7	6.4	0.32	10.65	0.4	0.235	0.24
H247350		270	33.5	0.3	0.006	0.05	30.7	3.1	33	2.0	5.0	0.12	0.99	0.2	0.012	0.23
H247351		350	44.3	0.9	<0.002	0.07	25.5	2.7	24	1.8	4.4	0.05	0.74	0.3	0.006	0.18
H247352		400	21.7	0.4	<0.002	0.08	20.2	1.8	20	1.6	5.6	0.08	0.90	0.6	0.020	0.14
H247353		450	11.1	1.5	<0.002	0.08	11.15	2.3	11	0.9	7.7	0.11	0.53	1.0	0.021	0.27
H247354		460	17.4	0.5	<0.002	0.06	12.30	1.6	24	1.7	5.5	0.05	0.67	3.1	0.020	0.16
H247355		610	12.2	2.6	<0.002	0.06	35.6	4.4	16	2.0	10.5	0.07	0.94	1.9	0.029	0.49
H247356		580	8.6	2.5	<0.002	0.05	32.4	2.9	12	1.4	6.9	0.07	0.65	1.5	0.026	0.50
H247357		680	7.6	43.6	0.005	0.03	5.57	4.5	5	2.1	12.0	0.40	0.29	2.5	0.106	0.93
H247358		230	6.6	2.9	<0.002	0.03	4.55	2.0	4	0.9	6.4	0.08	0.23	0.5	0.027	0.21
H247359		360	7.7	10.6	0.003	0.08	8.08	2.0	8	1.7	30.9	0.18	0.43	1.1	0.056	0.60
H247360		70	6.0	7.7	0.002	>10.0	24.0	0.5	10	2.2	59.8	0.07	1.27	0.3	0.008	0.17
H247361		410	7.9	5.4	0.002	0.13	12.35	2.8	7	1.4	35.2	0.10	0.94	1.4	0.037	0.59
H247362		250	12.6	4.3	<0.002	0.06	12.60	4.0	9	1.0	31.3	0.09	3.23	0.8	0.048	0.19
H247363		530	4.2	12.9	<0.002	0.04	4.91	4.0	4	0.5	10.2	<0.05	0.20	0.5	0.022	0.43
H247364		310	3.6	30.6	<0.002	0.02	1.43	1.9	3	0.7	45.5	0.15	0.12	0.6	0.053	0.35
H247365		490	4.1	101.0	<0.002	0.01	2.05	2.5	3	1.5	38.1	0.39	0.13	2.0	0.106	0.94
H247366		480	13.4	31.6	<0.002	0.06	12.15	3.0	7	2.0	15.2	0.22	0.47	1.6	0.066	0.45
H247367		680	21.0	25.2	0.002	0.10	9.80	4.6	5	1.9	19.7	0.25	0.66	1.8	0.104	0.78
H247368		530	25.9	34.0	<0.002	0.06	5.13	4.2	3	1.8	24.6	0.33	0.25	1.6	0.117	0.71
H247369		420	12.1	18.4	<0.002	0.11	4.49	2.8	3	1.3	27.8	0.28	0.21	1.3	0.077	0.40
H247370		230	1.5	1.2	<0.002	0.01	0.09	0.3	1	<0.2	55.1	<0.05	<0.05	<0.2	<0.005	<0.02
H247371		720	63.1	36.2	<0.002	0.09	1.97	3.7	2	2.2	94.4	0.41	<0.05	2.4	0.171	0.36
H247372		1410	18.6	217	0.007	0.26	4.20	20.7	4	8.2	52.9	1.89	<0.05	4.8	1.065	2.43
H247373		120	13.8	5.6	0.002	>10.0	17.85	0.4	4	1.0	72.6	<0.05	0.55	0.4	0.012	0.12
H247374		2470	2.3	63.9	0.005	0.15	1.29	9.5	2	2.0	174.5	1.43	<0.05	2.2	0.848	0.56
H247375		1770	9.7	56.8	<0.002	0.01	2.18	10.3	2	1.4	131.0	1.56	<0.05	2.3	0.938	0.39
H247376		1710	2.5	56.2	<0.002	0.02	2.56	11.3	2	1.5	137.5	1.80	<0.05	2.7	1.065	0.39
H247377		2110	7.3	59.8	<0.002	0.13	1.97	9.0	2	1.3	122.5	1.47	<0.05	2.8	0.837	0.34
H247378		1940	21.9	62.7	<0.002	0.13	6.54	11.0	2	1.3	91.4	0.58	<0.05	3.6	0.433	0.46
H247379		1950	3.8	70.4	<0.002	0.23	4.09	13.6	2	1.9	112.0	2.16	<0.05	4.4	1.120	0.47

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 25-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073270

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62
	Analyte	U	V	W	Y	Zn	Zr	Ag
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5	1
H247344		0.2	34	1700	2.6	718	65.6	273
H247345		0.7	12	50.2	1.5	12	33.5	
H247346		1.1	19	46.7	2.1	4	53.7	
H247347		1.3	36	102.0	1.8	7	56.5	
H247348		0.5	5	1.5	0.1	12	0.5	
H247349		2.3	22	900	4.4	38	25.2	
H247350		2.3	12	55.8	13.1	51	6.9	
H247351		1.8	15	48.8	13.2	71	4.5	
H247352		1.9	19	65.1	10.3	96	10.1	
H247353		2.3	21	16.0	17.2	73	15.6	
H247354		3.7	14	267	10.7	43	10.2	
H247355		2.4	24	1260	12.4	94	16.0	
H247356		2.2	23	1100	9.4	113	12.2	
H247357		1.8	34	750	19.4	61	49.0	
H247358		1.1	16	29.2	8.8	20	15.6	
H247359		2.0	17	511	10.2	23	25.3	
H247360		0.4	8	38.6	4.8	6	5.6	
H247361		3.1	18	331	12.3	29	23.4	
H247362		1.6	23	209	11.1	32	14.7	
H247363		1.6	16	30.2	12.2	38	9.2	
H247364		0.7	13	9.9	7.4	25	14.7	
H247365		0.9	22	7.9	8.2	30	34.1	
H247366		2.1	26	105.5	10.3	69	34.1	
H247367		2.3	33	455	13.3	204	27.4	
H247368		1.0	28	89.0	13.5	200	25.7	
H247369		1.2	23	84.7	9.0	89	20.1	
H247370		0.4	5	1.2	0.9	14	<0.5	
H247371		1.2	38	9.6	8.1	1370	50.3	
H247372		1.5	237	16.0	12.1	591	45.4	
H247373		0.6	9	191.5	5.7	124	2.5	
H247374		0.6	103	2.6	13.9	46	13.6	
H247375		0.6	112	9.0	15.0	148	19.3	
H247376		0.9	125	2.5	16.0	42	30.9	
H247377		0.7	113	1.1	13.9	38	41.7	
H247378		2.2	168	1.6	12.6	906	82.0	
H247379		1.7	153	8.5	21.1	101	99.0	

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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 25-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09073270

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE VA09072703

Project: RAU

P.O. No.: Batch 8

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072703

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247056		0.90	0.22	0.50	3.01	4210	920	1.36	46.2	18.35	10.25	27.0	6.6	62	1.63	21.4
H247057		7.18	1.03	0.71	2.14	6890	1110	0.78	75.7	13.85	4.52	21.0	6.0	58	0.22	45.3
H247058		10.34	0.10	0.16	0.66	231	190	0.34	6.00	18.15	1.10	9.80	3.7	17	0.24	5.2
H247059		10.18	0.17	0.29	0.68	172	300	0.39	13.40	17.75	0.63	13.35	4.7	18	0.49	6.2
H247060		4.68	0.30	0.55	0.53	893	520	0.37	285	20.7	1.12	9.37	6.8	13	0.28	6.4
H247061		10.70	0.03	0.18	0.37	52	220	0.16	2.58	18.70	0.64	9.86	1.2	10	0.25	2.3
H247062		5.42	0.01	0.06	0.15	14	100	0.10	0.69	18.10	0.64	8.99	0.5	4	0.22	1.2
H247063		4.04	<0.01	0.01	0.08	<5	20	0.06	0.10	18.45	0.06	1.28	0.9	2	0.15	1.9
H247064		6.18	0.02	0.06	0.27	11	80	0.18	1.40	18.50	0.25	7.16	0.7	7	0.25	1.2
H247065		4.16	0.07	0.44	0.48	145	280	0.34	4.04	17.80	2.34	7.59	2.8	14	0.43	3.8
H247066		2.10	0.19	1.19	0.46	688	750	0.22	57.3	15.60	2.02	10.55	3.6	10	0.32	6.6
H247067		1.10	0.20	1.00	0.43	543	700	0.23	99.4	16.30	2.16	9.69	4.0	10	0.29	10.4
H247068		6.44	0.16	0.28	0.48	373	470	0.14	19.25	19.45	0.78	11.50	1.9	6	0.42	4.2
H247069		7.36	0.09	0.58	0.36	298	400	0.13	53.7	18.55	0.86	12.20	2.0	5	0.33	2.9
H247070		6.58	0.12	0.45	0.44	237	420	0.21	29.7	19.55	0.76	12.20	1.9	6	0.49	3.4
H247071		10.20	0.25	5.80	0.57	955	820	0.29	75.5	17.80	7.86	20.8	2.2	8	0.83	14.2
H247072		0.28	5.64	0.40	0.11	>10000	30	0.06	444	8.09	0.05	34.2	1.8	13	0.69	42.9
H247073		3.42	0.16	0.40	1.14	1080	560	0.50	348	18.40	1.23	10.15	3.5	18	3.32	7.7
H247074		3.56	2.86	6.00	0.91	2340	840	0.42	196.0	15.80	6.28	7.32	4.1	10	1.15	11.4
H247075		5.14	0.01	1.15	0.06	99	180	0.15	12.75	18.55	2.76	5.08	0.8	2	0.19	3.0
H247076		6.02	0.01	0.28	0.10	99	100	0.13	1.69	18.25	1.93	5.78	0.8	1	0.24	2.0
H247077		7.66	0.39	2.81	0.25	5500	560	0.22	26.8	15.05	6.98	8.40	2.3	2	0.37	8.2
H247078		9.04	1.70	1.16	0.14	4910	390	0.12	187.5	14.65	3.89	8.90	3.3	<1	0.25	5.3
H247079		3.38	1.15	17.55	0.15	2330	500	0.18	269	16.05	7.79	8.00	2.7	1	0.24	10.2
H247080		4.98	0.12	1.27	0.16	598	580	0.19	82.0	18.30	3.94	5.90	1.1	3	0.36	3.4
H247081		5.84	6.52	14.20	0.67	>10000	1650	0.19	232	12.35	10.80	7.46	3.6	11	1.43	16.1
H247082		0.28	1.62	1.78	0.10	>10000	20	<0.05	335	11.70	0.86	56.2	1.7	6	0.62	18.0
H247083		4.22	1.56	15.20	0.38	>10000	2460	0.16	146.0	13.15	15.15	8.22	3.2	4	1.32	18.5
H247084		8.80	0.71	4.74	0.19	3410	520	0.12	140.0	16.45	4.29	6.24	2.0	2	0.49	7.0
H247085		11.54	0.39	0.35	0.42	8270	140	0.11	280	16.50	2.25	6.28	2.1	6	0.53	2.5
H247086		3.96	<0.01	0.01	0.08	32	20	0.08	0.80	18.80	0.07	1.41	0.8	1	0.17	1.4
H247087		12.02	0.08	0.11	0.12	1060	30	<0.05	136.5	17.60	0.95	6.14	1.2	1	0.30	1.9
H247088		10.44	0.06	0.11	0.04	3330	40	0.06	59.4	17.50	1.00	9.06	1.0	<1	0.20	4.3
H247089		3.74	0.03	0.25	0.08	608	70	<0.05	39.1	17.50	2.14	7.08	0.9	<1	0.21	2.2
H247090		1.46	1.25	16.65	0.13	6790	420	0.16	345	7.25	5.06	16.45	3.3	<1	0.14	22.3
H247091		9.68	0.04	0.31	0.33	657	130	0.20	4.50	17.25	4.05	10.50	1.4	1	0.59	2.1

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072703

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247056		13.95	14.60	0.15	1.3	0.1	0.313	1.05	11.1	5.3	0.54	2690	1.07	0.05	7.9	26.1
H247057		17.25	14.30	0.17	1.1	<0.1	0.324	0.06	7.7	2.3	2.32	3700	0.93	0.11	3.5	30.8
H247058		2.97	3.47	0.05	0.6	<0.01	0.029	0.13	5.6	2.3	9.94	1820	0.37	0.04	4.3	10.0
H247059		2.56	3.44	<0.05	0.5	<0.01	0.068	0.29	7.6	2.7	9.62	2200	0.34	0.02	4.0	10.9
H247060		7.64	4.06	0.09	0.3	<0.01	0.085	0.20	4.0	1.7	4.88	3640	0.70	0.02	1.1	14.5
H247061		3.03	2.65	0.06	0.3	<0.01	0.110	0.09	3.9	1.9	9.23	4020	0.45	0.03	1.5	3.1
H247062		2.47	1.10	<0.05	0.1	<0.01	0.110	0.02	3.6	1.8	10.30	3890	0.11	0.02	0.5	1.4
H247063		0.41	0.24	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.0	11.65	193	0.12	0.01	0.3	1.8
H247064		1.74	1.66	<0.05	0.3	<0.01	0.034	0.06	3.5	1.9	10.95	2490	0.13	0.03	1.5	2.4
H247065		4.74	2.62	0.05	0.3	<0.1	0.073	0.23	4.6	1.9	8.63	2060	0.45	0.01	1.8	9.4
H247066		14.05	3.22	0.12	0.2	<0.1	0.157	0.19	4.6	1.5	4.59	5020	0.86	0.02	0.9	12.3
H247067		12.00	3.01	0.11	0.2	0.01	0.190	0.18	4.2	1.7	5.17	5340	0.77	0.02	0.8	11.7
H247068		8.74	3.19	0.09	0.2	<0.1	0.120	0.22	5.1	1.6	5.63	5570	0.33	0.01	0.9	6.4
H247069		8.52	2.43	0.07	0.2	<0.01	0.132	0.09	5.3	1.6	6.51	5420	0.26	0.02	1.0	6.8
H247070		7.65	3.07	0.08	0.3	<0.01	0.138	0.18	5.3	1.8	6.27	5170	0.26	0.02	1.1	6.3
H247071		9.10	3.17	0.10	0.3	0.02	0.385	0.20	11.4	1.9	5.87	6460	0.38	0.01	1.7	8.5
H247072		22.8	0.99	0.22	0.1	<0.1	0.067	0.07	22.0	1.7	4.53	1400	11.45	0.01	1.3	13.6
H247073		8.68	6.95	0.09	0.5	<0.01	0.123	0.46	4.4	3.0	4.88	5140	0.58	0.01	2.8	13.2
H247074		15.00	6.89	0.13	0.4	0.1	0.146	0.39	3.1	2.1	4.00	5480	0.65	0.03	1.8	13.3
H247075		2.30	0.41	<0.05	<0.1	<0.01	0.182	0.01	3.0	1.8	10.40	2520	0.12	0.01	0.2	1.7
H247076		2.08	0.51	<0.05	<0.1	<0.01	0.203	0.01	3.1	2.3	10.80	2710	0.08	0.01	0.2	2.4
H247077		11.15	1.21	0.09	0.1	<0.1	0.217	0.05	3.6	1.7	7.27	4270	0.19	0.01	0.4	6.3
H247078		14.00	1.25	0.11	0.1	<0.1	0.321	0.03	3.4	1.5	6.10	6420	0.11	0.01	0.3	8.0
H247079		10.65	0.81	0.11	0.1	<0.1	0.241	0.03	3.5	1.3	6.63	5760	0.27	0.02	0.2	6.2
H247080		3.49	1.07	<0.05	0.1	0.01	0.097	0.06	3.1	2.1	10.75	2900	0.08	0.01	0.6	2.5
H247081		12.20	3.96	0.12	0.4	<0.1	0.090	0.28	3.5	1.9	6.49	3220	0.10	0.02	1.6	10.8
H247082		16.25	0.91	0.19	0.1	<0.1	0.093	0.06	37.1	2.0	6.71	2100	5.66	0.01	0.5	7.6
H247083		15.55	2.43	0.12	0.2	<0.1	0.092	0.14	3.3	1.7	6.18	4790	0.12	0.03	0.8	6.6
H247084		9.11	1.46	0.08	0.1	<0.1	0.085	0.09	2.3	2.0	8.17	4930	0.10	0.01	0.4	3.6
H247085		7.62	2.53	0.08	0.2	<0.1	0.078	0.18	2.5	2.2	8.66	4140	0.09	0.01	1.3	4.9
H247086		0.40	0.27	<0.05	<0.1	<0.01	<0.005	0.04	0.7	1.1	11.90	186	0.07	0.01	0.3	1.3
H247087		6.35	0.98	0.06	0.1	<0.01	0.072	0.06	2.4	1.7	9.63	4610	0.06	0.01	0.4	2.0
H247088		7.29	0.32	0.06	<0.1	<0.1	0.108	0.02	3.6	1.8	9.35	4140	0.09	0.01	0.1	1.6
H247089		6.19	0.45	0.06	<0.1	<0.01	0.098	0.02	2.9	1.5	9.83	3900	0.21	0.01	0.2	1.7
H247090		36.1	0.98	0.27	0.1	<0.1	0.382	0.03	6.0	1.1	3.79	4560	1.10	0.01	0.3	9.9
H247091		6.87	1.97	0.07	0.1	<0.1	0.231	0.06	3.8	2.0	9.06	5900	0.24	0.02	0.2	4.0

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Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072703

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247056		670	21.4	65.5	<0.002	0.03	3.04	6.7	3	14.7	17.3	0.45	0.34	1.7	0.215	0.37
H247057		840	63.7	3.3	0.003	0.04	4.22	8.5	4	5.7	38.3	0.20	0.76	2.2	0.095	0.21
H247058		230	16.9	7.1	<0.002	0.02	0.77	2.2	3	2.3	70.2	0.23	0.27	0.6	0.112	0.06
H247059		230	27.7	17.3	<0.002	0.02	0.87	2.3	3	4.1	65.5	0.22	0.13	0.7	0.101	0.10
H247060		200	65.9	10.5	0.002	0.01	5.14	2.1	3	2.8	46.4	0.06	0.43	0.4	0.033	0.09
H247061		170	42.5	4.3	<0.002	0.01	0.32	3.5	3	1.7	102.0	0.08	0.11	0.2	0.039	0.06
H247062		30	23.3	1.2	0.006	0.01	0.23	2.8	3	0.4	120.0	<0.05	<0.05	<0.2	0.012	0.09
H247063		230	2.0	1.2	<0.002	0.01	0.71	0.3	2	<0.2	44.1	<0.05	<0.05	<0.2	<0.005	<0.02
H247064		80	11.6	3.2	<0.002	0.01	0.28	1.2	2	0.9	90.6	0.08	0.07	<0.2	0.039	0.03
H247065		180	116.5	14.2	<0.002	0.01	0.77	1.5	3	2.8	48.2	0.10	0.11	0.4	0.049	0.09
H247066		180	125.5	12.7	<0.002	0.03	2.67	1.5	3	3.6	56.7	0.05	0.16	0.2	0.026	0.10
H247067		170	112.5	11.5	<0.002	0.03	2.74	1.5	3	4.3	62.7	<0.05	0.17	0.2	0.022	0.07
H247068		130	32.1	16.2	0.004	0.01	1.14	1.3	3	2.5	82.0	0.05	0.08	0.2	0.030	0.14
H247069		180	45.7	7.8	<0.002	0.01	1.71	1.8	3	2.6	87.3	0.06	0.18	0.2	0.030	0.10
H247070		270	37.1	15.6	<0.002	0.01	1.37	1.7	3	3.3	90.9	0.06	0.08	0.2	0.033	0.13
H247071		260	252	20.3	<0.002	0.20	3.68	1.7	3	7.8	91.9	0.09	0.10	0.4	0.047	0.24
H247072		60	6.8	7.2	0.003	>10.0	21.6	0.4	9	2.0	55.9	0.08	1.49	0.3	0.007	0.14
H247073		450	35.1	44.8	<0.002	0.05	6.88	3.3	3	2.2	72.3	0.16	0.12	0.3	0.084	0.59
H247074		180	411	31.9	0.005	0.08	4.86	1.8	3	5.2	59.6	0.09	0.29	0.3	0.056	0.33
H247075		40	67.6	1.1	<0.002	0.03	0.45	0.5	3	1.0	49.5	<0.05	<0.05	<0.2	<0.005	0.05
H247076		40	51.3	1.2	<0.002	0.02	0.41	0.4	3	0.9	62.5	<0.05	<0.05	<0.2	<0.005	0.04
H247077		70	273	5.4	<0.002	0.18	2.87	0.9	4	2.1	78.7	<0.05	0.18	<0.2	0.011	0.11
H247078		80	94.8	2.6	<0.002	0.09	4.57	1.0	3	2.4	81.0	<0.05	0.23	<0.2	0.005	0.15
H247079		50	273	2.7	<0.002	0.05	6.61	0.9	3	1.0	58.4	<0.05	0.18	<0.2	0.005	0.10
H247080		100	105.0	6.0	<0.002	0.08	2.08	0.6	3	1.2	64.2	<0.05	0.11	<0.2	0.014	0.06
H247081		240	496	25.7	<0.002	0.28	10.70	1.4	3	2.9	105.5	0.08	0.16	0.4	0.047	0.38
H247082		110	17.1	6.8	0.004	>10.0	20.4	0.5	5	1.1	85.3	<0.05	0.90	0.4	0.007	0.10
H247083		130	466	14.0	<0.002	0.13	6.96	0.9	4	1.1	99.2	<0.05	0.18	<0.2	0.024	0.29
H247084		120	203	5.7	<0.002	0.08	3.20	0.8	3	0.8	107.5	<0.05	0.10	<0.2	0.009	0.07
H247085		140	78.3	9.2	<0.002	0.45	8.49	0.9	3	0.8	115.5	0.07	0.17	0.2	0.029	0.14
H247086		310	1.9	1.4	<0.002	0.01	0.08	0.2	2	<0.2	45.0	<0.05	<0.05	<0.2	<0.005	<0.02
H247087		130	49.7	4.0	<0.002	0.28	5.22	0.6	3	0.3	119.0	<0.05	0.07	<0.2	0.010	0.05
H247088		40	45.3	1.1	<0.002	0.15	2.11	0.3	4	0.2	113.0	<0.05	0.24	<0.2	<0.005	0.08
H247089		40	89.6	1.4	<0.002	0.07	1.42	0.3	3	0.3	90.3	<0.05	0.07	<0.2	<0.005	0.05
H247090		110	283	1.8	<0.002	0.09	10.00	1.4	9	1.5	41.7	<0.05	0.36	<0.2	<0.005	0.15
H247091		40	52.6	6.2	<0.002	0.03	0.54	1.0	2	3.2	93.3	<0.05	<0.05	<0.2	0.005	0.12

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Project: RAU

Finalized Date: 22-JUL-2009
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CERTIFICATE OF ANALYSIS VA09072703

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H247056		1.7	65	18.0	23.7	611	51.2
H247057		2.7	55	343	20.5	672	41.8
H247058		0.8	19	10.0	6.8	122	25.2
H247059		0.8	24	10.6	8.0	134	20.6
H247060		1.0	28	161.5	12.8	270	14.0
H247061		0.5	15	180.0	12.8	136	13.3
H247062		0.2	9	610	11.0	167	4.9
H247063		0.5	1	1.8	0.9	14	<0.5
H247064		0.3	9	2.9	6.2	79	10.6
H247065		0.5	13	3.5	5.3	390	11.9
H247066		0.9	13	68.1	14.0	568	9.3
H247067		0.8	12	32.1	13.4	544	8.5
H247068		0.7	10	351	11.0	204	8.9
H247069		0.8	10	174.0	10.6	171	9.7
H247070		0.7	10	149.0	10.3	203	10.2
H247071		0.9	18	41.3	11.0	1440	12.8
H247072		0.4	5	35.3	4.3	12	4.6
H247073		0.8	30	21.9	11.3	388	20.7
H247074		1.0	17	590	9.1	1640	16.1
H247075		0.1	3	19.1	4.3	417	1.0
H247076		0.1	5	5.7	5.3	411	1.0
H247077		0.7	4	89.4	9.0	1800	4.4
H247078		0.5	5	146.0	11.0	907	3.0
H247079		0.4	5	175.0	9.2	1480	2.6
H247080		0.2	6	3.5	5.4	698	3.5
H247081		1.2	12	34.8	7.7	2210	14.2
H247082		0.7	5	198.5	6.9	136	2.7
H247083		0.8	7	15.7	8.5	2750	8.2
H247084		0.3	5	3.1	7.2	886	4.1
H247085		0.3	8	2.4	8.5	430	8.0
H247086		0.6	1	0.3	1.0	16	<0.5
H247087		0.2	4	1.9	8.3	204	3.7
H247088		0.2	1	51.0	7.9	182	1.0
H247089		0.2	1	6.1	6.4	300	1.8
H247090		1.4	7	6.4	15.0	1150	3.4
H247091		0.5	7	3.0	12.1	629	3.6

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072703

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE VA09072702

Project: RAU

P.O. No.: Batch 12

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 14-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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

Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072702

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247200		5.78	0.02	0.32	4.25	59	190	1.01	0.92	11.90	0.16	53.8	31.7	28	8.87	35.0
H247201		4.24	<0.01	2.10	0.09	7	240	0.17	0.38	18.30	58.8	3.00	1.0	9	0.24	12.1
H247202		2.38	0.01	6.28	0.13	8	90	0.20	0.88	17.30	147.5	2.17	1.0	3	0.24	26.3
H247203		4.06	0.12	0.52	0.10	11	800	0.16	0.73	15.40	4.34	2.71	0.7	13	0.22	5.7
H247204		2.72	0.23	1.10	0.17	1060	270	0.16	13.55	18.80	2.71	6.93	1.3	6	0.32	6.5
H247205		1.78	0.03	0.54	0.72	444	2580	0.33	2.15	19.75	2.54	17.40	1.4	3	1.29	2.5
H247206		3.34	0.04	0.64	0.13	208	520	0.09	7.52	19.45	2.86	5.91	1.0	2	0.25	2.7
H247207		3.38	3.71	27.8	0.47	>10000	2830	0.27	680	6.88	10.10	18.05	5.5	22	0.37	49.0
H247208		10.50	1.40	2.92	0.30	2230	350	0.19	185.0	16.85	3.90	8.03	1.7	3	0.51	7.7
H247209		4.92	0.63	4.09	0.28	3690	340	0.16	145.0	17.60	3.62	8.02	1.9	5	0.45	9.4
H247210		9.50	2.20	0.39	0.34	>10000	220	0.07	365	14.55	1.47	7.59	2.1	5	0.95	6.8
H247211		5.48	0.20	0.15	0.25	3230	110	<0.05	719	16.45	0.11	5.90	1.7	7	0.84	3.4
H247212		9.22	3.07	0.16	0.26	>10000	120	0.08	228	15.45	0.92	7.65	2.4	4	1.05	3.8
H247213		4.36	<0.01	0.02	0.07	23	20	0.08	1.23	18.95	0.06	1.52	0.9	1	0.16	1.8
H247214		7.10	0.04	0.09	0.15	752	60	0.13	5.91	18.15	0.59	4.27	1.2	3	0.45	1.6
H247215		10.40	0.01	0.12	0.18	365	60	0.21	1.56	18.90	1.00	4.66	1.0	3	0.41	1.7
H247216		6.02	0.10	1.68	0.08	1240	90	0.13	12.85	18.25	1.15	5.66	1.7	1	0.33	2.5
H247217		8.18	0.01	0.19	0.09	109	110	0.15	1.27	18.30	0.83	4.89	0.8	3	0.28	2.3
H247218		11.84	0.01	0.48	0.07	209	50	0.15	5.21	18.45	1.82	5.57	0.8	2	0.33	2.0
H247219		8.90	0.04	0.71	0.17	4530	60	0.16	4.50	18.45	1.82	4.72	0.9	4	0.64	2.5
H247220		3.72	0.03	0.01	0.07	28	10	0.07	0.12	19.60	0.08	1.53	1.0	1	0.16	1.6
H247221		5.48	0.01	1.54	0.17	134	1610	0.54	2.64	17.60	17.70	4.69	2.0	5	0.35	5.8
H247222		11.86	0.03	0.17	3.22	33	530	0.88	0.09	19.80	0.08	40.0	13.3	67	1.97	12.7
H247223		5.06	<0.01	0.18	3.97	20	680	1.08	0.11	18.40	0.07	43.8	15.6	73	2.45	20.5
H247224		0.28	5.50	0.23	0.12	>10000	30	<0.05	474	8.69	0.05	35.5	1.7	13	0.76	37.0
H247225		6.12	0.02	0.23	3.71	269	740	0.97	1.46	22.1	0.19	41.5	14.4	56	2.10	37.3
H247226		4.78	0.01	0.30	4.00	220	800	1.06	0.24	22.3	0.69	52.8	12.1	54	2.36	24.3
H247227		3.14	<0.01	0.28	1.00	392	5220	0.46	0.08	26.1	1.25	15.05	5.0	18	0.92	3.9
H247228		6.40	<0.01	0.28	1.49	115	420	0.58	0.06	25.1	1.03	24.0	7.0	42	0.93	5.2
H247229		4.34	0.03	0.37	1.52	516	580	0.57	0.24	19.30	1.97	23.2	5.8	40	0.99	5.8
H247230		2.96	0.17	0.53	1.69	1180	1010	0.56	0.05	23.1	3.14	26.9	8.0	47	1.27	8.0
H247231		4.76	0.02	0.38	1.85	415	850	0.69	0.03	17.55	2.63	31.2	6.8	48	1.49	7.2
H247232		8.44	0.05	0.53	0.86	346	7010	0.46	0.04	23.1	3.98	17.00	4.1	22	0.63	3.8
H247233		0.28	0.51	0.82	0.79	5860	140	0.29	96.5	12.20	0.15	34.0	5.4	14	2.00	30.4
H247234		5.04	0.02	1.10	2.31	6620	>10000	1.43	9.35	4.70	16.70	42.7	12.0	42	2.02	20.7
H247235		4.94	<0.01	0.77	1.41	381	550	0.46	0.18	28.4	4.06	26.7	6.1	38	0.89	7.6

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247200		6.67	12.25	0.16	0.5	<0.01	0.024	1.89	25.2	16.5	6.97	491	5.08	0.09	16.8	76.3
H247201		0.65	0.42	0.06	<0.1	0.45	0.015	0.03	1.9	2.5	11.00	1090	0.32	0.01	0.4	6.1
H247202		0.54	0.69	0.05	0.1	1.40	0.032	0.05	0.9	1.6	8.14	1300	1.05	0.01	0.3	6.5
H247203		1.13	0.61	<0.05	<0.1	0.01	0.044	0.04	1.7	3.0	9.15	3560	2.01	0.01	0.2	4.9
H247204		4.21	0.90	0.06	0.1	0.01	0.086	0.06	3.9	1.7	8.80	1860	0.33	0.02	0.7	3.8
H247205		2.54	2.28	0.05	0.3	0.01	0.063	0.36	8.4	3.2	7.87	1450	0.26	0.03	5.8	4.4
H247206		3.96	0.87	0.06	0.1	<0.01	0.070	0.04	2.9	1.6	8.63	3330	0.26	0.01	0.4	2.5
H247207		32.9	3.88	0.35	0.2	<0.1	0.285	0.13	8.4	1.7	2.03	3300	1.27	0.02	1.0	18.4
H247208		9.01	2.08	0.10	0.2	<0.1	0.125	0.12	3.3	1.9	7.96	5090	0.16	0.01	0.9	5.2
H247209		8.84	1.78	0.08	0.2	<0.01	0.117	0.11	3.5	1.7	7.56	4840	0.17	0.01	0.6	5.1
H247210		10.40	2.22	0.09	0.1	<0.01	0.087	0.13	3.0	2.1	7.79	4160	0.09	0.01	0.9	3.6
H247211		7.65	1.97	0.06	0.1	<0.01	0.064	0.11	2.2	2.2	8.84	4800	<0.05	0.01	0.5	4.5
H247212		8.89	1.79	0.09	0.1	<0.1	0.083	0.10	3.2	2.2	8.61	4300	0.09	0.01	0.5	5.6
H247213		0.42	0.28	0.10	<0.1	<0.01	0.005	0.03	0.8	1.3	11.95	192	0.13	0.01	0.3	3.1
H247214		2.37	0.85	0.05	0.1	<0.01	0.028	0.06	3.0	2.9	11.00	1320	0.05	0.01	0.6	3.3
H247215		1.36	1.05	0.05	0.1	<0.1	0.049	0.06	3.5	2.6	11.70	1160	<0.05	0.01	0.6	3.8
H247216		3.25	0.62	0.06	0.1	0.01	0.084	0.03	3.6	2.1	11.00	2200	0.12	0.01	0.3	4.3
H247217		1.26	0.59	0.05	0.1	<0.01	0.094	0.02	3.3	2.3	11.40	1620	0.05	0.01	0.5	3.4
H247218		2.18	0.58	0.05	<0.1	<0.01	0.276	0.03	3.6	2.0	11.00	2730	<0.05	0.01	0.3	3.0
H247219		2.87	0.92	<0.05	0.1	<0.01	0.076	0.08	3.2	2.3	11.20	1950	0.05	0.01	0.6	2.9
H247220		0.46	0.26	0.11	<0.1	<0.01	<0.005	0.03	0.8	0.9	12.30	207	0.13	0.01	0.3	3.3
H247221		2.82	0.81	0.06	0.1	<0.1	0.087	0.07	2.9	1.4	11.10	1580	4.42	0.01	0.5	11.0
H247222		3.62	8.18	0.10	0.9	<0.01	0.034	1.54	24.0	7.9	2.90	446	0.32	0.03	17.0	34.6
H247223		3.91	10.45	0.12	0.5	<0.01	0.041	1.89	25.0	9.5	2.60	468	0.31	0.04	21.5	42.7
H247224		23.5	1.00	0.26	0.1	<0.1	0.070	0.07	24.5	1.6	4.71	1440	10.55	<0.01	1.2	12.5
H247225		3.42	9.69	0.11	0.8	<0.01	0.043	1.75	23.3	8.2	0.39	700	0.63	0.04	20.8	35.7
H247226		2.82	10.90	0.12	1.0	0.01	0.041	1.87	30.2	8.9	0.37	675	0.58	0.04	23.6	30.3
H247227		2.72	2.62	0.06	0.4	0.01	0.013	0.44	9.1	4.9	0.16	1260	0.32	0.03	5.3	20.1
H247228		2.16	4.03	0.08	0.7	<0.01	0.034	0.73	14.0	4.6	2.44	526	0.39	0.02	8.6	18.8
H247229		2.89	3.78	0.07	0.7	0.01	0.043	0.74	13.8	4.8	7.51	885	0.46	0.02	8.6	18.3
H247230		5.07	4.28	0.09	0.8	0.02	0.043	0.82	15.7	5.4	2.45	1700	0.85	0.02	9.1	20.2
H247231		3.43	4.79	0.08	0.8	<0.1	0.043	0.90	18.3	7.3	8.51	1080	0.38	0.02	10.9	19.1
H247232		2.96	2.25	0.06	0.6	0.02	0.034	0.40	10.9	3.2	5.46	1320	0.38	0.04	4.9	15.4
H247233		14.65	3.51	0.18	0.2	0.01	0.067	0.39	19.9	4.5	6.69	2050	17.60	0.02	2.7	21.1
H247234		37.7	7.01	0.36	0.8	0.01	0.159	0.74	26.6	6.9	0.26	4240	1.81	0.11	2.6	56.9
H247235		4.04	3.72	0.07	0.9	0.01	0.018	0.64	16.4	3.6	0.19	995	0.48	0.02	9.2	20.5

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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247200		2230	5.7	52.4	0.017	7.36	3.90	8.9	3	1.4	59.5	1.07	<0.05	2.5	0.550	1.05
H247201		70	610	3.0	0.005	1.08	9.28	0.5	3	0.7	120.5	<0.05	<0.05	<0.2	0.007	0.14
H247202		80	723	5.7	0.007	2.39	17.10	0.5	4	3.1	376	<0.05	<0.05	<0.2	0.005	0.23
H247203		50	530	4.5	0.002	0.17	1.55	0.5	2	2.3	60.2	<0.05	<0.05	<0.2	<0.005	0.05
H247204		70	77.0	4.0	<0.002	0.03	1.62	1.1	2	0.9	47.1	<0.05	0.05	0.2	0.012	0.05
H247205		90	59.3	18.0	<0.002	0.09	0.64	1.2	2	1.2	54.3	0.41	<0.05	2.1	0.028	0.10
H247206		60	59.0	4.0	<0.002	0.03	0.55	0.9	2	1.1	64.5	<0.05	<0.05	<0.2	0.009	0.03
H247207		270	719	8.2	<0.002	0.25	13.95	4.0	15	2.9	130.5	0.05	0.71	0.9	0.014	0.11
H247208		180	219	11.9	<0.002	0.31	4.11	1.2	2	2.6	96.3	0.05	0.13	0.2	0.025	0.08
H247209		140	213	9.6	<0.002	0.33	3.60	1.2	2	2.6	94.4	<0.05	0.11	0.2	0.018	0.09
H247210		160	47.2	10.5	<0.002	0.25	9.80	0.9	2	1.4	106.5	0.05	0.11	<0.2	0.028	0.18
H247211		170	9.1	11.2	<0.002	0.65	16.05	1.6	8	1.7	120.0	<0.05	0.12	<0.2	0.014	0.08
H247212		190	15.4	12.3	<0.002	0.73	11.95	0.9	2	0.8	118.5	<0.05	0.16	<0.2	0.014	0.27
H247213		190	1.8	1.3	<0.002	0.01	0.14	0.3	2	<0.2	48.6	<0.05	<0.05	<0.2	<0.005	<0.02
H247214		100	18.2	6.5	<0.002	0.19	0.62	0.8	2	0.5	50.5	<0.05	<0.05	<0.2	0.015	0.05
H247215		90	21.1	7.5	<0.002	0.05	0.37	0.6	2	1.6	41.0	<0.05	<0.05	<0.2	0.016	0.06
H247216		50	35.6	2.8	<0.002	0.16	0.62	0.5	2	1.3	62.9	<0.05	<0.05	<0.2	0.006	0.03
H247217		40	17.2	2.2	<0.002	0.05	0.34	0.5	2	0.7	46.7	<0.05	<0.05	<0.2	0.010	0.03
H247218		40	35.0	2.7	<0.002	0.11	0.38	0.5	2	0.8	59.1	<0.05	<0.05	<0.2	0.006	0.03
H247219		70	59.4	9.7	<0.002	0.17	1.14	0.7	2	2.0	59.3	<0.05	<0.05	<0.2	0.017	0.14
H247220		200	2.0	1.2	<0.002	0.02	0.08	0.5	2	<0.2	50.8	<0.05	<0.05	<0.2	<0.005	<0.02
H247221		40	490	7.3	0.009	0.87	5.53	0.5	5	1.8	90.0	<0.05	<0.05	0.2	0.009	0.10
H247222		730	5.9	56.1	<0.002	1.10	1.07	8.4	2	0.9	681	1.08	0.05	2.9	0.456	0.19
H247223		930	5.7	69.5	0.004	1.34	0.98	10.8	2	1.1	590	1.37	<0.05	3.0	0.581	0.23
H247224		70	6.5	8.2	0.003	>10.0	23.7	0.4	8	2.1	56.3	0.07	1.45	0.3	0.007	0.16
H247225		830	7.7	64.6	<0.002	0.11	1.15	8.9	2	0.9	207	1.35	<0.05	3.1	0.511	0.27
H247226		870	9.7	72.6	<0.002	0.02	2.30	9.9	2	1.0	180.5	1.54	<0.05	3.6	0.545	0.30
H247227		270	26.9	19.6	<0.002	0.16	6.47	4.9	2	0.3	123.0	0.31	<0.05	0.9	0.132	0.14
H247228		450	44.0	31.8	0.002	0.02	2.09	4.4	2	0.4	238	0.50	<0.05	1.6	0.227	0.11
H247229		490	29.6	30.0	<0.002	0.02	2.50	4.2	2	0.4	208	0.53	<0.05	1.4	0.242	0.12
H247230		620	19.3	33.0	<0.002	0.02	3.07	4.7	2	0.5	65.2	0.56	<0.05	1.6	0.255	0.21
H247231		620	17.8	37.0	<0.002	0.02	3.19	5.4	2	0.5	169.5	0.67	<0.05	1.8	0.298	0.16
H247232		250	22.6	15.7	<0.002	0.19	4.88	3.2	2	0.3	102.0	0.29	<0.05	0.9	0.134	0.16
H247233		230	13.8	32.6	0.018	>10.0	4.34	1.8	6	3.0	84.0	0.17	0.19	0.7	0.073	0.26
H247234		700	93.6	31.2	<0.002	0.41	12.40	10.7	2	0.6	55.8	0.19	0.10	2.1	0.089	0.53
H247235		430	87.0	27.0	<0.002	0.02	4.70	4.4	2	0.4	46.2	0.51	<0.05	1.6	0.232	0.21

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
	Analyte	U	V	W	Y	Zn	Zr	Zn
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.1	1	0.1	0.1	2	0.5	0.001
H247200		11.9	156	1.4	13.9	60	20.3	
H247201		2.4	15	0.8	2.1	>10000	2.0	1.465
H247202		1.8	13	1.5	4.1	>10000	1.9	3.97
H247203		1.3	11	1.1	1.2	1160	1.0	
H247204		0.2	7	6.5	5.1	434	3.1	
H247205		0.2	8	1.2	6.1	557	4.3	
H247206		0.2	8	2.8	6.9	351	2.8	
H247207		2.0	18	394	15.5	1900	2.5	
H247208		0.4	8	4.0	10.4	698	8.1	
H247209		0.4	7	3.6	10.1	652	6.6	
H247210		0.4	8	72.8	7.4	436	6.8	
H247211		0.2	6	169.5	7.1	58	5.3	
H247212		0.3	7	58.6	7.4	222	6.1	
H247213		0.7	2	0.5	1.0	16	<0.5	
H247214		0.2	8	0.9	4.0	134	3.7	
H247215		0.2	10	1.0	4.6	207	4.1	
H247216		0.1	5	4.2	4.8	184	1.9	
H247217		0.1	7	1.2	4.6	176	3.2	
H247218		0.1	4	4.4	5.1	320	2.3	
H247219		0.2	5	4.2	4.7	297	3.9	
H247220		0.8	3	0.2	1.1	19	<0.5	
H247221		2.4	14	39.8	2.5	3910	4.5	
H247222		0.6	72	0.6	13.0	34	35.6	
H247223		0.4	85	0.7	13.7	42	16.6	
H247224		0.5	6	34.0	4.5	14	5.1	
H247225		0.8	82	1.0	15.5	136	29.2	
H247226		0.8	84	4.5	15.7	268	33.9	
H247227		0.5	26	10.5	14.2	444	17.4	
H247228		0.7	37	1.7	13.7	202	28.6	
H247229		0.7	35	3.6	9.2	412	27.5	
H247230		0.9	42	5.8	11.7	668	31.4	
H247231		0.9	47	6.3	12.6	355	33.2	
H247232		0.7	25	20.0	10.1	699	19.2	
H247233		0.4	17	59.1	7.3	36	7.0	
H247234		3.3	61	48.6	36.8	3800	28.8	
H247235		1.0	38	39.0	13.8	718	31.0	

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072702

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE VA09072701

Project: RAU

P.O. No.: Batch 13

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 14-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072701

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H247236		10.64	0.01	0.09	0.61	63	210	0.29	0.02	33.9	0.40	14.65	4.5	18	0.33	3.4
H247237		3.70	<0.01	0.01	0.09	5	10	<0.05	0.03	19.60	0.07	1.34	1.1	1	0.15	1.6
H247238		8.66	<0.01	0.11	0.66	79	170	0.18	0.02	35.0	0.32	15.90	6.0	21	0.40	3.6
H247239		11.62	<0.01	0.21	0.45	64	120	0.12	0.07	36.2	0.14	12.60	4.5	14	0.24	3.2
H247240		6.82	0.01	0.27	0.71	171	170	0.22	0.02	35.2	0.65	15.30	4.0	20	0.42	5.2
H247241		9.86	<0.01	0.16	0.39	1290	200	0.10	3.96	33.6	1.55	10.45	2.3	10	0.16	5.0
H247242		7.40	0.02	0.12	0.27	240	110	0.15	0.31	34.4	0.60	8.68	1.6	7	0.13	1.6
H247243		7.82	0.01	0.12	0.34	288	200	0.09	0.52	35.0	0.46	7.69	1.5	10	0.12	1.9
H247244		2.56	<0.01	0.06	0.79	49	160	0.19	0.25	32.8	0.18	14.30	3.4	13	1.87	4.4
H247245		0.64	<0.01	0.08	7.63	403	1670	1.46	0.66	11.30	0.26	65.1	46.7	282	53.1	65.5
H247246		1.04	0.01	<0.01	10.05	225	2210	2.41	0.21	1.45	0.12	110.5	58.8	449	47.9	21.9
H247247		0.28	1.56	1.70	0.12	>10000	30	0.06	339	12.30	0.82	53.4	1.7	5	0.70	16.8
H247248		0.48	0.02	0.09	9.94	141.0	1930	3.03	1.81	0.18	0.05	95.0	12.7	281	15.25	47.3
H247249		1.42	<0.01	<0.01	8.84	448	2230	2.65	0.80	0.88	0.22	178.5	73.7	192	78.1	40.3
H247250		0.34	<0.01	<0.01	8.87	429	3210	1.98	0.12	1.04	0.14	142.5	61.8	225	67.4	34.1
H247251		0.96	<0.01	<0.01	8.74	526	2780	1.98	0.14	0.80	0.16	132.0	54.3	171	47.9	31.1
H247252		0.94	0.01	1.24	8.25	1805	2550	2.37	0.13	0.44	0.61	87.2	35.6	232	14.20	46.2
H247253		1.38	0.02	0.51	1.95	874	550	0.50	0.13	21.3	0.77	25.3	8.6	38	3.43	20.8
H247254		2.84	0.03	0.24	0.55	615	180	0.12	0.24	33.7	0.60	8.26	2.5	17	1.12	6.5
H247255		1.34	0.05	0.19	0.44	259	170	0.14	0.69	36.0	0.33	6.94	1.9	7	0.80	4.8
H247256		2.54	0.06	0.95	0.41	496	380	0.15	1.05	30.2	0.42	6.85	2.5	7	0.38	6.3
H247257		4.38	2.19	1.19	0.36	>10000	2050	0.10	369	1.01	3.57	14.95	4.0	7	0.27	37.2
H247258		3.12	0.84	1.70	0.34	>10000	1330	0.15	357	0.46	2.81	8.20	1.6	10	0.54	44.1
H247259		1.28	5.41	0.99	0.40	>10000	1800	0.56	694	0.75	1.96	5.78	1.6	8	0.60	31.8
H247260		0.54	2.43	0.49	1.87	>10000	1570	0.91	70.5	0.94	3.14	45.9	5.3	32	1.32	87.4
H247261		3.72	<0.01	0.01	0.07	6	<10	0.09	0.14	17.90	0.07	1.58	0.9	1	0.16	2.2
H247262		1.92	0.39	0.21	2.00	>10000	2530	0.56	35.4	17.70	0.98	24.2	7.8	45	1.74	24.4
H247263		1.98	3.33	0.42	0.96	>10000	1080	0.38	245	13.95	1.05	13.10	4.9	16	0.96	26.7
H247264		1.94	0.64	0.26	0.95	5680	1010	0.54	44.1	15.55	1.17	11.10	3.4	15	1.42	26.6
H247265		0.28	0.57	0.76	0.77	5780	130	0.23	91.0	12.90	0.15	30.9	5.3	13	1.84	30.2
H247266		2.94	0.12	0.19	0.74	2960	1400	0.53	6.01	16.85	0.65	8.43	2.5	10	0.87	4.6
H247267		1.18	1.80	1.55	0.53	>10000	1200	0.35	226	4.53	3.12	14.35	3.0	6	0.34	14.4
H247268		0.24	0.75	6.16	0.66	>10000	1880	0.23	47.0	9.86	1.10	10.45	2.2	19	0.95	17.1
H247269		2.60	0.15	0.14	0.67	2050	950	0.42	10.45	16.95	0.18	8.14	2.0	12	0.45	4.1
H247270		1.58	0.19	0.20	1.13	2800	1180	0.71	18.80	15.90	0.38	10.15	2.7	19	0.95	5.2
H247271		0.76	0.22	0.31	1.17	3250	1220	0.62	31.4	15.20	0.41	10.35	2.8	18	0.96	4.9

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Project: RAU

Finalized Date: 22-JUL-2009
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CERTIFICATE OF ANALYSIS VA09072701

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247236		0.98	1.65	0.05	0.4	<0.01	0.010	0.28	8.8	2.0	0.62	496	0.25	0.01	4.4	10.7
H247237		0.44	0.28	0.07	<0.1	<0.01	<0.005	0.04	0.6	1.3	12.40	201	0.12	0.01	0.4	1.9
H247238		1.44	1.68	0.05	0.4	<0.01	0.010	0.31	9.6	2.1	0.42	430	0.53	0.01	4.7	13.0
H247239		0.83	1.08	<0.05	0.2	<0.01	0.009	0.21	7.9	1.2	0.20	310	0.23	0.01	3.0	9.1
H247240		2.31	1.69	0.06	0.4	<0.01	0.012	0.33	9.4	1.8	0.19	403	0.18	0.01	4.4	12.6
H247241		4.37	1.51	0.05	0.1	<0.01	0.028	0.15	6.9	0.9	0.25	494	0.29	0.01	1.8	6.1
H247242		1.77	0.72	<0.05	0.1	<0.01	0.014	0.12	6.1	0.8	0.66	382	0.10	<0.01	1.6	4.1
H247243		1.80	0.94	<0.05	0.1	<0.01	0.015	0.15	5.4	0.9	0.42	312	0.08	0.01	2.1	3.8
H247244		1.04	1.85	<0.05	0.3	<0.01	0.013	0.38	7.6	2.1	1.10	561	0.47	0.01	4.8	14.4
H247245		9.33	18.80	0.16	1.0	<0.01	0.080	3.60	32.5	38.4	1.16	1780	1.50	0.10	34.2	253
H247246		13.70	28.1	0.22	0.2	<0.01	0.101	5.03	51.9	47.7	1.04	1060	0.72	0.92	51.0	402
H247247		16.45	0.90	0.17	<0.1	<0.1	0.088	0.07	33.9	2.1	6.97	2160	6.20	0.01	0.6	7.6
H247248		4.95	33.0	0.20	0.5	<0.01	0.090	4.41	44.6	42.8	1.11	206	0.64	0.36	61.1	91.0
H247249		12.70	25.3	0.25	0.5	<0.01	0.069	4.39	82.0	74.0	1.66	1020	0.53	0.89	96.7	300
H247250		10.30	26.9	0.23	0.8	<0.01	0.084	4.54	72.8	50.8	1.71	1140	0.31	0.10	95.0	249
H247251		9.72	25.9	0.24	0.7	<0.01	0.086	3.98	65.5	41.1	1.76	832	0.44	0.09	90.6	270
H247252		12.85	25.5	0.21	1.4	<0.01	0.083	4.14	54.1	42.8	1.19	614	2.59	0.17	27.4	167.0
H247253		4.07	5.59	0.06	0.6	<0.01	0.024	0.85	16.2	5.7	2.91	571	0.93	0.03	16.4	36.6
H247254		1.54	1.45	<0.05	0.2	<0.01	0.007	0.22	6.3	1.6	0.44	220	0.25	0.01	4.4	14.4
H247255		0.83	1.09	<0.05	0.1	<0.01	0.007	0.19	5.6	1.1	0.34	244	0.13	0.01	2.4	6.8
H247256		1.25	1.02	<0.05	0.1	0.01	0.015	0.17	5.5	1.3	2.44	419	0.23	0.02	1.8	6.5
H247257		46.7	1.70	0.41	0.1	<0.1	0.291	0.11	6.7	1.0	0.13	1580	6.28	0.02	0.6	19.1
H247258		20.0	2.63	0.14	0.2	<0.01	0.128	0.15	4.8	1.0	0.05	598	3.61	0.01	0.6	7.2
H247259		28.2	3.00	0.19	0.3	0.01	0.168	0.12	3.0	17.3	0.06	645	3.25	0.02	1.8	9.1
H247260		44.4	8.50	0.46	0.6	0.01	0.361	0.54	23.3	6.8	0.57	1360	1.24	0.02	2.2	24.4
H247261		0.43	0.25	0.08	<0.1	<0.01	0.005	0.03	0.7	1.2	11.35	189	0.12	0.01	0.4	1.3
H247262		14.85	8.12	0.13	1.1	<0.01	0.198	0.91	13.4	9.8	1.33	1480	0.75	0.03	12.3	26.3
H247263		22.5	3.99	0.18	0.6	<0.01	0.103	0.36	7.6	5.6	2.11	1620	0.63	0.02	5.7	18.3
H247264		8.62	3.70	0.08	0.4	<0.1	0.057	0.34	6.7	2.9	8.54	784	0.27	0.01	3.7	12.7
H247265		14.30	3.38	0.15	0.1	<0.1	0.064	0.39	17.6	3.9	6.68	1970	16.55	0.02	3.2	21.2
H247266		4.60	2.86	0.06	0.4	<0.01	0.023	0.30	5.4	3.8	9.68	699	0.21	0.01	3.7	10.4
H247267		37.7	1.58	0.52	0.3	0.01	0.113	0.16	6.4	1.5	1.11	2210	1.37	0.02	1.1	12.4
H247268		11.35	2.15	0.14	0.3	<0.01	0.071	0.27	5.2	2.1	2.44	723	10.95	0.04	2.2	9.0
H247269		3.44	2.72	0.09	0.4	<0.01	0.029	0.26	5.0	6.2	10.35	720	0.20	0.02	3.3	7.4
H247270		5.29	4.73	0.11	0.7	<0.01	0.042	0.53	5.7	6.4	10.05	971	0.41	0.02	6.8	11.2
H247271		6.31	4.77	0.12	0.7	<0.01	0.047	0.54	5.9	6.3	9.29	1030	0.42	0.02	6.0	11.6

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Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072701

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247236		190	11.7	10.1	<0.002	0.02	1.73	2.3	3	0.2	258	0.23	<0.05	0.6	0.105	0.10
H247237		180	1.6	1.4	<0.002	0.02	0.10	0.4	2	<0.2	52.5	<0.05	<0.05	0.2	<0.005	<0.02
H247238		220	6.8	10.5	<0.002	0.07	2.59	2.4	3	0.2	304	0.24	<0.05	0.7	0.115	0.11
H247239		140	5.7	6.8	<0.002	0.03	2.34	1.7	2	0.2	109.5	0.16	<0.05	0.5	0.078	0.06
H247240		190	15.8	11.7	<0.002	<0.01	2.62	2.4	3	0.2	118.5	0.23	<0.05	0.8	0.109	0.09
H247241		150	19.1	5.2	<0.002	0.01	1.16	1.6	3	<0.2	135.0	0.09	0.08	0.6	0.045	0.04
H247242		80	4.6	4.3	<0.002	0.02	0.97	1.2	3	<0.2	147.5	0.08	<0.05	0.4	0.038	0.02
H247243		100	4.8	5.0	<0.002	0.03	0.69	1.3	3	<0.2	222	0.11	<0.05	0.4	0.052	0.03
H247244		80	1.9	17.1	<0.002	0.01	0.12	1.9	2	0.2	234	0.25	<0.05	0.8	0.084	0.13
H247245		1010	2.3	264	<0.002	0.21	0.23	30.2	2	4.5	102.0	1.89	<0.05	3.9	1.150	2.39
H247246		1180	1.4	212	<0.002	0.03	0.25	38.9	2	2.4	47.0	2.81	<0.05	5.7	1.875	2.07
H247247		110	15.6	7.3	0.005	>10.0	20.9	0.6	5	1.1	87.4	<0.05	0.80	0.4	0.011	0.10
H247248		570	1.6	171.0	<0.002	0.52	0.28	28.3	2	17.7	112.0	3.11	0.31	6.4	0.742	1.31
H247249		2690	1.8	256	<0.002	0.49	0.24	26.2	2	5.0	144.0	4.90	<0.05	11.4	1.320	2.95
H247250		4060	1.3	195.0	<0.002	0.01	0.18	26.0	2	3.0	50.6	5.36	<0.05	9.1	1.585	2.77
H247251		2980	1.7	157.0	<0.002	0.04	0.18	22.5	2	3.3	45.5	5.15	<0.05	10.1	1.290	1.76
H247252		1870	4.7	134.5	<0.002	0.60	0.83	19.9	2	2.2	67.7	1.52	<0.05	10.4	0.592	0.91
H247253		610	3.1	30.6	<0.002	0.03	0.56	5.2	2	0.6	135.5	0.85	<0.05	2.2	0.223	0.23
H247254		210	2.5	7.7	<0.002	0.02	0.43	1.7	3	0.2	137.0	0.22	<0.05	0.6	0.066	0.09
H247255		110	3.2	7.8	<0.002	0.03	0.25	1.2	3	0.2	148.5	0.12	<0.05	0.4	0.052	0.06
H247256		130	3.2	5.8	<0.002	0.20	1.81	1.2	2	0.2	132.5	0.10	<0.05	0.3	0.048	0.07
H247257		270	50.3	5.0	0.002	0.09	34.1	1.4	7	0.5	34.3	<0.05	0.55	0.4	0.017	0.25
H247258		110	109.5	5.5	<0.002	0.13	30.2	0.9	5	1.5	31.3	<0.05	0.51	0.5	0.026	0.16
H247259		130	46.2	6.6	<0.002	0.14	33.0	0.2	14	2.5	70.0	0.08	0.57	0.5	0.032	0.14
H247260		500	60.1	22.3	<0.002	0.06	14.70	6.8	32	1.3	18.8	0.12	0.14	1.5	0.083	0.29
H247261		180	1.4	1.6	<0.002	0.01	<0.05	0.4	1	<0.2	48.6	<0.05	<0.05	<0.2	<0.005	0.02
H247262		790	12.7	28.9	<0.002	0.01	8.41	5.6	6	1.5	17.9	0.62	0.11	2.8	0.201	0.24
H247263		350	152.0	16.5	<0.002	0.02	24.5	2.3	13	1.1	23.8	0.30	0.09	1.3	0.086	0.17
H247264		370	47.6	30.0	<0.002	0.02	8.55	2.4	8	1.5	49.1	0.19	0.07	0.8	0.092	0.28
H247265		230	13.7	27.6	0.013	>10.0	4.15	1.9	6	2.9	82.4	0.17	0.19	0.6	0.088	0.24
H247266		240	35.5	16.9	<0.002	0.03	4.17	1.9	3	0.6	62.9	0.20	<0.05	0.6	0.088	0.17
H247267		260	153.0	7.1	0.008	0.08	18.15	1.7	7	0.4	46.4	0.07	0.73	0.6	0.028	0.31
H247268		190	59.5	12.9	<0.002	0.04	13.75	1.6	3	0.5	90.0	0.12	0.25	0.7	0.047	0.18
H247269		250	5.8	10.6	<0.002	0.02	2.62	1.7	3	0.5	56.2	0.19	0.05	0.7	0.080	0.09
H247270		350	3.9	20.4	<0.002	0.02	5.33	2.3	3	0.8	50.1	0.39	0.05	1.3	0.130	0.17
H247271		370	3.9	20.2	<0.002	0.02	6.02	2.3	3	0.8	48.2	0.34	<0.05	1.3	0.119	0.19

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072701

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
H247236		0.6	18	8.1	8.4	89	19.6
H247237		1.1	3	2.1	1.0	16	0.5
H247238		0.8	19	3.2	9.6	78	20.5
H247239		0.8	14	13.2	8.1	105	14.0
H247240		0.9	28	23.6	10.1	237	19.7
H247241		0.4	11	20.1	8.5	401	8.2
H247242		0.3	8	13.3	7.1	140	6.9
H247243		0.4	12	12.8	6.2	145	8.4
H247244		0.3	9	0.8	3.6	38	14.9
H247245		1.5	196	2.9	17.7	131	34.2
H247246		0.9	204	3.1	27.9	337	10.4
H247247		0.7	6	201	7.0	139	3.2
H247248		0.9	204	5.9	9.1	83	14.8
H247249		1.0	187	3.1	35.7	411	17.9
H247250		1.3	184	1.8	33.1	212	33.3
H247251		1.3	160	2.5	32.2	166	32.1
H247252		1.3	156	3.5	19.0	298	235
H247253		0.5	38	2.2	13.7	200	27.2
H247254		0.3	9	1.2	7.0	156	12.6
H247255		0.2	8	1.1	5.0	78	7.8
H247256		0.2	8	1.7	6.0	94	5.4
H247257		4.5	17	128.0	17.6	1090	5.2
H247258		1.6	15	199.5	5.9	381	11.9
H247259		3.1	13	166.0	7.1	299	15.9
H247260		3.3	48	24.9	36.0	598	24.5
H247261		0.5	2	0.2	0.9	17	<0.5
H247262		1.6	42	12.3	16.1	330	46.3
H247263		1.2	18	4.9	12.7	711	26.9
H247264		0.7	18	9.5	9.3	265	21.1
H247265		0.4	17	60.2	6.8	33	8.7
H247266		0.5	19	11.4	6.8	193	17.4
H247267		2.5	15	980	21.6	782	11.0
H247268		1.2	12	184.5	8.2	241	12.6
H247269		0.5	14	3.9	7.2	51	16.4
H247270		0.7	26	4.7	8.9	70	27.5
H247271		0.7	27	4.9	8.8	73	25.9

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Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072701

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE VA09072700

Project: RAU

P.O. No.: Batch 7

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072700

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247020		2.48	0.01	0.04	0.32	90	3180	0.20	0.40	17.75	3.66	5.15	2.3	6	0.35	4.2
H247021		1.82	0.01	0.11	0.81	701	450	0.51	0.54	10.15	11.30	21.7	22.1	8	0.37	1285
H247022		3.90	<0.01	0.03	0.18	15	170	0.12	0.41	19.50	1.03	4.56	1.9	5	0.32	6.8
H247023		4.24	0.03	0.09	0.47	81	310	0.25	1.82	17.65	2.51	6.90	3.5	13	1.12	12.5
H247024		2.10	0.03	0.18	3.71	275	2200	1.11	0.95	10.35	6.07	27.6	20.7	56	7.81	29.8
H247025		0.28	5.32	0.14	0.12	>10000	30	<0.05	448	8.61	0.07	31.9	1.5	16	0.70	36.6
H247026		3.34	0.02	0.22	1.83	295	430	1.26	5.79	13.95	7.01	29.0	19.3	31	8.08	33.5
H247027		1.86	0.04	0.16	3.14	149	1000	0.79	6.86	10.05	6.84	41.7	23.0	109	21.9	17.7
H247028		1.52	0.10	0.49	7.93	346	2940	2.53	15.25	2.56	7.53	106.0	22.0	241	9.41	26.8
H247029		2.48	0.02	0.02	0.16	36	80	0.10	2.64	17.30	1.71	9.89	1.8	5	0.44	2.9
H247030		0.88	1.34	0.67	1.77	4780	2120	0.75	662	0.50	17.80	33.0	17.0	27	1.75	75.1
H247031		2.38	0.60	0.57	7.27	2340	1270	2.04	201	0.27	4.48	143.0	8.9	140	9.16	157.5
H247032		3.06	0.03	0.77	0.65	149	180	0.24	67.9	17.30	1.88	14.55	3.9	6	1.17	19.0
H247033		4.46	0.04	8.86	0.12	160	60	0.15	181.5	17.40	7.40	14.00	10.5	3	0.60	32.5
H247034		3.26	0.02	0.87	7.22	126	1180	2.38	1.19	11.70	10.10	139.5	9.0	126	7.49	18.4
H247035		2.00	0.01	0.15	0.11	76	50	0.19	0.43	16.00	3.70	17.95	5.9	1	1.10	5.0
H247036		3.92	<0.01	<0.01	0.09	5	20	0.09	0.11	19.65	0.10	1.66	1.2	3	0.23	1.4
H247037		4.04	0.01	0.93	8.95	127.5	1780	3.80	2.25	3.22	6.08	139.0	19.2	177	8.88	25.1
H247038		4.18	<0.01	0.26	2.11	43	350	0.66	0.15	25.4	1.41	36.8	7.0	48	2.44	15.2
H247039		2.04	0.01	0.32	2.68	55	460	0.83	0.16	24.1	1.41	46.0	7.8	56	3.00	16.5
H247040		3.36	0.01	5.05	7.68	120.5	1720	2.08	0.26	9.49	0.51	135.5	14.0	172	8.86	29.6
H247041		2.82	0.05	0.84	4.81	366	1310	1.59	2.39	13.30	4.80	125.5	24.1	64	4.36	40.2
H247042		3.66	0.40	2.74	0.90	2170	270	0.39	20.9	25.1	5.44	17.35	4.8	4	1.04	9.5
H247043		2.60	0.93	2.18	0.32	7210	100	0.22	30.7	30.5	1.61	10.00	2.6	6	0.62	5.2
H247044		1.64	4.19	5.92	0.94	>10000	380	0.36	156.0	12.50	5.33	16.80	5.6	10	1.67	11.9
H247045		0.28	1.51	1.83	0.10	>10000	30	0.05	325	12.30	0.88	59.6	1.7	8	0.71	18.0
H247046		2.64	1.63	1.00	0.34	>10000	180	0.16	39.4	26.1	1.18	7.31	2.0	6	0.71	3.5
H247047		2.88	0.25	0.16	0.18	2870	70	0.10	6.50	30.3	0.38	11.20	1.5	4	0.35	2.2
H247048		1.64	0.58	0.34	0.22	6920	90	0.08	34.6	21.7	2.97	12.90	3.9	4	0.36	3.2
H247049		1.14	0.14	0.10	0.40	655	120	0.21	3.13	17.75	2.62	7.05	4.0	6	0.47	3.6
H247050		1.08	0.62	0.32	0.13	3710	110	0.07	118.0	9.63	7.26	18.95	19.4	1	0.19	10.6
H247051		5.06	<0.01	0.01	0.05	19	20	0.05	0.29	34.9	0.11	2.22	0.7	4	0.05	1.4
H247052		5.10	<0.01	<0.01	0.05	15	50	<0.05	0.08	36.8	0.08	0.91	0.6	1	<0.05	1.4
H247053		1.44	0.12	0.65	1.19	1940	430	0.72	11.50	19.65	2.92	23.6	4.7	33	0.73	10.8
H247054		4.10	<0.01	0.02	0.08	26	20	0.07	0.19	18.70	0.06	1.67	1.0	1	0.23	1.5
H247055		0.16	0.44	31.7	3.08	>10000	1320	1.65	264	0.74	9.29	48.6	15.3	92	1.71	83.5

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Project: RAU

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072700

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247020		2.40	0.68	0.05	0.1	<0.01	0.012	0.11	2.9	2.5	11.15	572	1.75	<0.01	0.5	10.1
H247021		23.3	0.96	0.29	0.1	<0.01	0.047	0.09	11.0	2.1	6.17	2580	2.53	0.01	0.6	89.7
H247022		0.71	0.45	<0.05	0.1	<0.01	0.010	0.08	3.1	3.0	11.50	488	0.63	0.01	0.4	5.0
H247023		2.34	1.09	<0.05	0.2	<0.01	0.011	0.22	3.8	4.6	10.95	698	1.15	0.01	1.7	12.9
H247024		7.20	9.16	0.13	1.0	0.01	0.028	1.75	14.0	17.3	8.56	1740	1.18	0.03	8.5	73.1
H247025		23.3	0.95	0.31	0.1	<0.01	0.050	0.08	20.7	1.3	4.65	1420	9.85	0.01	1.5	11.7
H247026		8.16	7.37	0.12	1.1	0.02	0.026	0.60	13.3	15.9	10.70	1480	1.09	0.02	7.9	75.1
H247027		10.15	7.68	0.17	1.2	0.02	0.017	2.03	19.3	22.0	9.22	1770	1.24	0.03	9.0	81.0
H247028		13.75	22.8	0.22	1.1	0.01	0.059	3.65	53.6	18.8	2.54	804	1.45	0.07	8.5	93.1
H247029		1.57	0.77	<0.05	<0.1	<0.01	0.025	0.06	6.1	2.6	10.90	1350	0.28	0.01	0.6	4.9
H247030		33.8	7.93	0.39	0.6	0.01	0.146	0.61	18.3	5.0	0.41	2430	3.96	0.01	2.0	67.7
H247031		17.60	25.3	0.29	1.1	<0.01	0.159	3.42	80.2	19.5	1.16	1040	1.30	0.06	13.0	66.8
H247032		7.57	3.32	0.11	0.3	<0.01	0.149	0.29	6.2	2.3	6.10	7100	0.48	0.01	4.1	11.7
H247033		9.92	1.64	0.19	0.1	<0.01	0.634	0.05	5.7	1.9	7.10	9820	0.54	0.01	0.5	22.0
H247034		4.54	23.1	0.16	0.9	<0.01	0.412	3.74	61.9	10.6	0.53	2500	0.66	0.05	77.3	66.6
H247035		12.40	2.58	0.19	0.1	<0.01	6.07	0.07	9.5	0.8	1.83	33100	0.47	0.01	0.8	15.0
H247036		0.46	0.86	<0.05	<0.1	<0.01	0.015	0.04	0.8	1.5	12.90	254	0.13	0.01	0.5	1.3
H247037		4.71	34.8	0.18	1.1	<0.01	1.080	4.97	59.7	16.8	0.60	3070	1.70	0.05	94.0	118.0
H247038		2.00	6.43	0.07	0.3	<0.01	0.263	1.03	21.5	3.4	0.64	941	0.59	0.02	24.7	27.1
H247039		2.33	8.18	0.08	0.4	<0.01	0.229	1.33	26.2	4.6	0.55	1040	0.65	0.02	30.2	35.5
H247040		2.96	26.2	0.14	1.1	<0.01	0.121	4.10	59.0	27.1	1.08	376	0.86	0.05	53.9	78.1
H247041		7.79	15.55	0.17	0.7	<0.01	1.045	2.26	60.7	13.7	4.97	8700	1.88	0.03	38.1	107.0
H247042		6.92	3.94	0.15	0.3	0.01	1.435	0.44	10.7	3.6	1.58	5530	1.56	0.01	9.2	18.6
H247043		5.91	1.64	0.12	0.1	<0.01	0.128	0.16	6.2	2.4	2.09	1580	0.67	0.01	2.3	5.7
H247044		24.0	4.75	0.37	0.3	0.01	0.193	0.49	10.1	6.9	1.27	4250	1.95	0.02	5.7	16.8
H247045		16.25	1.09	0.31	0.1	<0.01	0.091	0.06	38.8	2.1	6.61	2140	6.08	0.01	0.8	7.2
H247046		5.85	1.67	0.13	0.1	<0.01	0.082	0.17	5.3	2.8	1.16	1340	0.50	0.01	2.4	4.3
H247047		2.11	1.11	0.07	0.1	<0.01	0.123	0.09	6.7	1.4	1.74	1820	0.21	0.01	1.3	1.9
H247048		9.68	1.56	0.18	0.1	<0.01	0.124	0.10	6.7	1.7	3.28	3260	0.98	0.01	1.4	13.5
H247049		2.70	2.30	0.09	0.3	<0.01	0.046	0.18	4.7	2.9	10.25	1900	0.61	0.01	3.3	8.6
H247050		38.5	1.22	0.58	0.1	<0.01	0.296	0.05	9.5	0.7	0.28	2780	4.89	0.01	0.9	73.4
H247051		0.13	0.19	<0.05	<0.1	<0.01	<0.005	0.03	1.7	0.2	0.58	117	0.05	<0.01	0.4	<0.2
H247052		0.10	0.10	<0.05	<0.1	<0.01	0.005	0.02	1.2	<0.2	0.39	130	<0.05	<0.01	0.2	0.9
H247053		5.67	6.80	0.10	0.7	0.01	0.117	0.43	12.3	3.4	5.51	1470	0.70	0.02	5.3	13.3
H247054		0.41	0.32	0.05	<0.1	<0.01	<0.005	0.04	0.8	1.4	11.90	183	<0.05	0.01	0.4	1.3
H247055		35.0	17.95	0.67	1.7	0.01	0.497	0.70	21.5	5.1	0.35	1620	2.38	0.07	1.9	57.6

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072700

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247020		30	6.9	5.2	<0.002	0.09	0.61	0.7	1	0.4	48.8	<0.05	<0.05	0.4	0.014	0.09
H247021		120	26.4	4.3	<0.002	0.02	3.20	1.9	2	0.2	16.5	<0.05	0.07	0.6	0.011	0.49
H247022		20	1.9	3.6	<0.002	0.01	0.33	0.6	1	0.2	44.2	<0.05	<0.05	0.3	0.010	0.07
H247023		50	3.9	10.3	<0.002	0.01	1.46	1.7	2	0.4	43.1	0.09	<0.05	0.6	0.039	0.18
H247024		770	7.5	80.6	<0.002	0.02	4.83	8.7	1	1.6	33.0	0.50	<0.05	2.0	0.289	0.96
H247025		70	6.1	7.6	0.004	>10.0	19.00	0.4	8	1.9	50.1	0.07	1.33	0.3	0.008	0.18
H247026		460	3.0	91.4	<0.002	0.05	8.73	5.6	2	1.3	49.2	0.37	0.22	1.7	0.149	0.66
H247027		810	3.0	154.5	<0.002	0.03	2.34	9.5	2	1.5	36.3	0.51	0.05	2.7	0.267	1.62
H247028		1980	3.2	143.0	<0.002	0.05	2.59	22.6	2	7.8	30.1	0.45	0.06	9.6	0.249	1.11
H247029		100	2.5	2.8	<0.002	0.01	0.46	0.5	1	0.3	56.4	<0.05	<0.05	0.3	0.008	0.11
H247030		970	18.1	27.3	<0.002	0.15	26.4	3.4	11	3.4	11.9	0.12	0.34	2.2	0.040	0.54
H247031		2250	33.6	178.5	<0.002	0.10	4.55	14.6	2	10.1	33.2	0.77	0.19	12.4	0.221	1.30
H247032		260	27.6	28.6	0.003	0.32	4.53	1.8	2	4.1	56.7	0.22	0.08	0.7	0.045	0.66
H247033		160	294	7.0	0.006	0.72	10.15	2.3	3	7.8	82.1	<0.05	0.29	0.3	0.005	0.45
H247034		2220	102.0	232	<0.002	0.01	7.65	18.1	2	46.5	77.5	3.39	<0.05	7.6	0.868	1.23
H247035		90	19.4	9.0	<0.002	0.06	0.83	0.6	2	5.3	41.6	<0.05	0.05	0.2	0.007	0.14
H247036		260	1.6	2.1	<0.002	0.03	0.14	0.4	2	0.2	48.8	<0.05	<0.05	<0.2	<0.005	<0.02
H247037		2950	42.7	323	<0.002	0.02	8.93	23.6	2	135.5	37.1	5.24	0.05	11.5	1.175	1.74
H247038		610	12.0	59.2	0.002	0.04	0.70	5.2	2	6.5	167.5	1.02	0.05	2.4	0.264	0.36
H247039		720	16.4	76.3	<0.002	0.03	0.86	6.5	2	8.4	159.0	1.40	<0.05	3.2	0.321	0.44
H247040		2160	2.1	146.0	<0.002	0.01	1.18	22.2	2	2.8	68.3	2.41	<0.05	7.3	1.010	1.05
H247041		1600	49.4	94.5	<0.002	0.16	2.86	11.3	2	9.1	78.4	1.72	<0.05	6.5	0.433	1.07
H247042		210	133.0	23.8	<0.002	0.05	4.36	1.2	2	5.7	115.0	0.43	0.10	1.3	0.052	0.29
H247043		120	143.0	10.1	<0.002	0.10	5.99	1.0	3	1.7	165.5	0.10	0.16	0.5	0.023	0.33
H247044		270	408	30.9	0.003	0.24	28.3	2.1	4	5.3	191.5	0.25	0.63	1.3	0.061	1.17
H247045		110	14.0	8.3	0.005	>10.0	21.0	0.6	5	1.2	85.4	<0.05	0.98	0.6	0.008	0.12
H247046		180	49.1	9.5	<0.002	0.12	8.40	1.0	3	1.0	166.0	0.10	0.22	0.5	0.028	0.30
H247047		130	5.3	4.6	<0.002	0.04	1.52	0.8	2	0.4	147.5	0.05	0.06	0.2	0.017	0.11
H247048		140	8.8	5.5	<0.002	0.03	6.66	0.8	2	0.5	114.0	0.06	0.13	0.2	0.013	0.28
H247049		160	2.6	11.5	<0.002	0.01	1.25	0.7	2	0.7	40.6	0.17	0.06	0.7	0.025	0.24
H247050		390	7.3	3.8	<0.002	0.05	17.15	0.7	6	0.3	30.9	<0.05	0.28	<0.2	0.007	0.40
H247051		60	0.7	0.7	<0.002	0.02	0.10	0.3	2	<0.2	125.0	<0.05	0.07	<0.2	0.005	<0.02
H247052		110	0.9	0.3	<0.002	0.01	0.05	0.2	1	<0.2	84.1	<0.05	<0.05	<0.2	<0.005	<0.02
H247053		290	47.0	23.3	<0.002	0.02	2.91	3.6	3	3.6	92.5	0.31	0.18	1.3	0.126	0.16
H247054		260	1.6	1.5	<0.002	0.02	0.08	0.2	2	<0.2	50.7	<0.05	<0.05	<0.2	<0.005	<0.02
H247055		760	189.0	43.0	0.002	0.06	30.4	17.8	7	5.5	18.2	0.12	2.12	2.3	0.064	0.36

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

Finalized Date: 24-JUL-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09072700

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H247020		0.5	8	1.1	3.4	575	4.0
H247021		3.0	14	2.7	12.5	3680	4.9
H247022		0.3	7	1.6	3.7	106	2.4
H247023		0.5	12	0.8	5.4	362	7.6
H247024		1.9	73	4.8	10.9	1200	42.2
H247025		0.5	7	34.2	4.5	15	4.4
H247026		2.7	34	6.4	13.9	1160	41.1
H247027		1.6	89	2.1	15.8	1800	48.9
H247028		2.3	169	9.6	20.1	2020	36.4
H247029		0.1	5	1.0	5.3	169	1.6
H247030		3.3	28	39.9	17.9	2550	24.0
H247031		2.6	140	39.7	17.8	793	38.3
H247032		0.7	14	306	20.2	487	9.9
H247033		0.7	7	650	23.5	1240	2.3
H247034		0.8	174	14.7	20.0	1490	36.1
H247035		0.5	5	1.4	11.9	1690	2.7
H247036		0.7	6	0.5	1.2	18	1.2
H247037		0.9	231	36.3	26.2	1020	42.6
H247038		0.3	46	2.0	10.3	272	11.0
H247039		0.3	56	2.4	12.1	291	16.2
H247040		1.1	209	29.3	27.2	191	46.3
H247041		1.2	95	27.8	23.0	1500	28.4
H247042		0.7	13	27.7	8.2	2000	11.1
H247043		0.7	9	37.6	7.1	442	4.9
H247044		3.1	14	417	9.8	1440	14.0
H247045		0.8	7	204	8.1	132	3.2
H247046		1.2	9	25.4	7.0	453	6.3
H247047		0.4	9	5.5	11.7	241	4.4
H247048		0.8	8	35.9	13.2	1360	5.1
H247049		0.4	8	7.5	6.3	449	10.5
H247050		4.0	6	137.0	24.9	3030	4.2
H247051		0.1	7	0.3	2.8	15	1.1
H247052		0.1	<1	0.1	2.2	16	0.9
H247053		1.3	49	10.8	14.4	333	30.5
H247054		0.9	1	0.2	1.1	15	0.5
H247055		5.1	107	196.5	33.7	1540	66.4

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Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072700

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

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

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE VA09072171

Project: RAU

P.O. No.: Batch 9

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072171

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247092		6.18	0.06	1.25	0.35	942	380	0.16	317	18.35	4.22	12.00	1.9	1	0.65	4.8
H247093		4.12	0.02	1.53	0.38	336	120	0.45	150.0	19.30	2.24	15.30	1.4	<1	0.33	5.5
H247094		0.26	0.16	0.79	0.63	8590	210	0.40	14.10	0.94	8.58	41.5	10.8	<1	0.18	2.7
H247095		1.32	0.15	0.70	1.35	8480	370	0.65	9.93	5.18	8.46	44.6	10.5	8	0.62	7.9
H247096		8.48	0.01	0.04	0.12	115	40	<0.05	0.14	35.0	0.34	3.15	1.2	2	0.09	3.0
H247097		6.64	0.01	0.06	0.04	22	10	<0.05	0.06	37.0	0.11	1.72	0.7	<1	<0.05	2.5
H247098		9.66	0.01	0.01	0.74	141	180	0.19	0.04	34.5	0.12	10.70	2.2	8	0.57	3.0
H247099		9.90	0.01	0.01	0.47	62	130	0.16	0.01	34.2	0.10	6.99	1.9	8	0.17	2.8
H247100		9.12	0.10	0.25	2.06	347	380	0.69	0.07	26.2	0.13	28.2	13.5	34	1.31	16.3
H247101		4.24	<0.01	<0.01	0.17	<5	20	0.16	0.03	19.60	0.07	2.42	0.9	<1	0.40	1.6
H247102		6.14	0.03	0.11	0.98	244	230	0.27	0.01	32.2	0.16	14.10	2.7	16	0.68	5.4
H247103		9.36	0.02	0.06	0.35	68	100	0.09	<0.01	36.3	0.17	7.08	1.3	5	0.14	1.1
H247104		9.76	0.02	0.05	1.03	237	200	0.41	0.11	29.0	0.15	14.45	2.1	13	0.94	1.8
H247105		1.80	0.05	0.16	0.65	293	160	0.18	0.12	34.6	0.56	11.00	1.7	8	0.58	1.4
H247106		0.28	1.60	1.92	0.11	>10000	30	<0.05	343	12.35	0.86	60.5	1.7	5	0.68	18.2
H247107		4.36	0.04	3.22	1.54	>10000	530	0.64	15.20	2.06	11.90	37.5	6.0	14	1.06	24.1
H247108		0.82	0.03	2.50	0.84	>10000	300	0.36	7.88	0.39	8.52	28.1	5.5	8	0.32	21.9
H247109		1.24	0.06	1.07	0.45	531	80	0.20	0.91	19.25	1.24	7.85	2.5	3	1.77	1.5
H247110		6.42	0.03	0.70	0.43	955	50	0.26	2.29	19.35	1.66	9.51	2.9	5	1.74	4.0
H247111		5.56	0.06	0.21	0.25	31	110	0.24	1.35	18.40	1.72	4.32	1.0	11	0.40	2.4
H247112		5.44	0.07	0.29	1.26	36	190	0.57	11.90	16.95	0.84	7.63	3.2	33	4.14	3.1
H247113		3.42	0.01	0.03	0.60	323	30	0.23	7.32	17.65	0.12	7.56	1.4	9	2.54	3.4
H247114		4.62	<0.01	0.01	0.06	<5	20	0.10	0.04	19.75	0.06	1.24	0.8	1	0.15	1.9
H247115		3.72	0.55	0.13	0.60	289	80	0.41	103.0	16.95	<0.02	8.36	4.5	5	2.15	4.4
H247116		3.56	0.47	0.11	0.61	109	120	0.31	35.1	17.10	0.06	14.60	24.7	27	0.90	4.6
H247117		4.46	0.09	0.03	0.79	14	110	0.31	10.65	17.90	0.03	8.13	2.3	16	1.24	2.5
H247118		5.80	0.08	0.03	0.89	15	120	0.37	8.93	17.65	0.03	9.67	4.3	16	1.37	5.4
H247119		5.92	0.25	0.02	2.45	52	480	0.82	17.20	15.35	0.03	23.3	20.3	80	2.22	11.0
H247120		2.52	0.37	0.02	2.44	54	480	0.83	13.55	14.90	0.02	22.5	21.0	80	2.13	11.5
H247121		3.18	0.09	0.03	1.01	26	260	0.35	7.98	17.10	0.04	14.55	10.8	27	0.86	5.0
H247122		3.10	0.06	<0.01	4.99	127.5	990	1.20	4.65	9.42	0.04	53.7	35.0	124	2.88	38.0
H247123		5.28	0.07	<0.01	5.21	83.3	890	1.24	27.3	9.37	0.04	50.3	33.4	140	5.51	25.5
H247124		0.28	0.49	0.77	0.80	5950	130	0.26	97.3	13.15	0.14	29.9	5.5	14	1.78	31.2
H247125		4.74	0.21	0.01	1.61	46	520	0.56	20.8	16.30	0.03	34.6	4.8	41	2.13	5.0
H247126		3.02	4.02	0.41	0.37	>10000	170	<0.05	41.5	16.15	1.32	>500	1.8	8	1.02	3.9
H247127		4.28	0.17	0.06	2.49	73	470	0.78	13.35	15.00	0.10	209	7.9	65	16.50	8.4

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072171

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247092		7.77	1.88	0.09	0.1	<0.01	0.221	0.05	4.2	2.5	8.16	8950	0.45	0.02	0.5	5.5
H247093		5.12	2.77	0.08	0.1	<0.01	0.132	0.03	6.4	2.3	9.31	7030	0.27	0.03	1.2	3.3
H247094		>50	1.39	0.38	0.1	<0.01	0.064	0.07	23.7	1.2	0.19	4890	0.79	0.01	0.5	33.2
H247095		44.3	2.85	0.39	0.3	0.01	0.225	0.33	22.2	2.4	0.26	4250	0.88	0.01	1.9	29.2
H247096		0.95	0.34	<0.05	<0.1	<0.01	<0.005	0.05	3.1	0.5	0.43	319	0.10	<0.01	0.7	1.4
H247097		0.18	0.13	<0.05	<0.1	<0.01	<0.005	0.01	2.0	0.5	0.40	194	<0.05	<0.01	0.2	<0.2
H247098		0.81	2.12	0.05	0.3	<0.01	0.013	0.39	8.6	3.1	0.61	240	0.09	0.01	4.6	5.5
H247099		0.47	1.41	<0.05	0.2	<0.01	0.010	0.23	6.3	1.4	0.64	222	0.06	0.01	3.0	3.6
H247100		1.21	6.21	0.09	1.6	<0.01	0.021	1.05	23.7	7.0	0.62	288	0.36	0.02	15.2	30.7
H247101		0.40	0.49	0.09	<0.1	<0.01	0.005	0.09	1.2	2.0	12.40	192	0.05	0.01	2.0	1.5
H247102		1.20	2.79	0.06	0.5	<0.01	0.021	0.53	11.6	3.5	0.56	225	0.11	0.01	6.2	7.0
H247103		0.45	1.01	<0.05	0.1	<0.01	0.009	0.18	5.9	1.1	0.37	177	<0.05	<0.01	2.2	1.5
H247104		1.27	2.94	0.05	0.5	<0.01	0.012	0.55	11.8	4.3	4.11	259	0.10	0.01	6.4	5.8
H247105		1.62	1.81	<0.05	0.3	<0.01	0.012	0.34	10.1	2.2	0.39	402	0.08	0.01	4.3	3.5
H247106		16.70	0.91	0.18	<0.1	<0.01	0.105	0.06	38.6	2.3	7.07	2190	5.78	<0.01	0.6	6.8
H247107		47.6	4.53	0.40	0.4	0.01	0.154	0.54	23.8	3.7	0.22	3160	1.08	0.01	1.4	23.8
H247108		>50	2.38	0.37	0.2	0.01	0.141	0.28	17.5	1.7	0.11	3520	0.92	0.01	1.1	21.3
H247109		2.71	1.82	<0.05	0.1	<0.01	0.014	0.19	6.7	4.4	10.40	1080	0.14	0.01	1.9	5.4
H247110		4.56	1.73	0.05	0.2	<0.1	0.017	0.16	6.9	3.2	9.46	1100	0.25	0.01	2.1	6.4
H247111		1.27	0.81	<0.05	0.1	<0.01	0.053	0.11	2.6	2.3	10.00	1420	0.46	0.01	1.8	2.8
H247112		2.62	7.32	0.05	0.5	<0.01	0.065	0.73	3.5	8.6	9.96	2230	0.44	0.02	4.6	10.9
H247113		3.23	4.18	0.05	0.5	<0.01	0.047	0.24	2.9	5.3	10.55	2870	0.37	0.04	3.3	4.3
H247114		0.40	0.23	0.06	<0.1	<0.01	<0.005	0.03	0.6	1.4	12.35	189	<0.05	0.01	0.3	1.3
H247115		5.21	3.74	0.15	0.4	<0.01	0.023	0.34	3.3	5.4	9.99	2120	0.42	0.02	1.3	8.6
H247116		5.15	3.89	0.06	0.5	<0.1	0.033	0.32	6.3	5.6	10.35	1940	1.50	0.02	5.2	43.4
H247117		1.54	3.36	<0.05	0.4	<0.01	0.027	0.41	4.2	6.6	11.10	1120	0.33	0.02	4.3	7.6
H247118		1.42	2.90	0.05	0.5	<0.01	0.015	0.47	5.1	7.1	11.00	964	0.71	0.01	5.9	9.6
H247119		3.20	7.21	0.07	1.1	<0.01	0.020	1.26	11.9	11.3	9.25	1440	0.86	0.03	8.5	51.4
H247120		3.14	7.34	0.07	1.1	<0.1	0.017	1.24	11.8	11.4	9.16	1320	0.91	0.03	8.8	55.3
H247121		2.81	3.65	0.05	0.5	<0.1	0.018	0.47	7.6	4.5	10.50	1340	0.72	0.02	6.3	22.6
H247122		8.11	13.50	0.13	1.2	<0.1	0.043	2.36	26.8	9.9	5.24	707	2.38	0.05	22.1	159.0
H247123		6.52	14.45	0.12	1.0	<0.01	0.042	2.60	24.3	18.8	5.46	771	0.74	0.05	18.1	145.5
H247124		14.65	3.37	0.14	0.1	<0.1	0.067	0.41	17.0	4.7	6.80	2020	16.85	0.02	3.6	22.0
H247125		2.47	6.82	0.06	0.8	<0.01	0.017	0.80	20.8	10.4	9.92	1280	0.44	0.03	7.7	17.6
H247126		7.07	4.27	0.32	0.1	<0.01	0.054	0.16	348	2.9	8.72	2920	0.22	0.02	1.2	12.6
H247127		2.99	11.50	0.20	1.5	<0.01	0.020	1.66	121.5	18.6	9.11	1120	0.36	0.04	10.3	31.4

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1016-510 W HASTINGS ST
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Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072171

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247092		90	81.6	5.7	<0.002	0.04	4.73	1.4	3	3.0	99.9	<0.05	0.29	0.6	0.012	0.21
H247093		120	62.8	2.8	0.004	0.04	2.60	1.7	2	8.1	95.9	0.08	0.16	0.4	0.028	0.13
H247094		120	27.0	5.9	<0.002	0.02	1.23	1.0	2	2.6	9.9	<0.05	<0.05	0.2	0.014	0.13
H247095		300	27.0	16.4	<0.002	0.02	1.38	2.6	3	1.9	26.7	0.12	<0.05	0.7	0.073	0.17
H247096		50	13.9	1.9	<0.002	0.05	0.43	0.5	2	<0.2	118.5	<0.05	<0.05	<0.2	0.014	0.05
H247097		30	1.4	0.4	<0.002	0.03	0.89	0.2	2	<0.2	124.0	<0.05	<0.05	<0.2	<0.005	<0.02
H247098		190	2.6	15.0	0.002	0.08	0.67	2.1	2	0.3	142.5	0.25	<0.05	0.7	0.103	0.06
H247099		230	1.6	7.6	<0.002	0.04	0.43	1.4	2	0.2	145.0	0.17	<0.05	0.5	0.069	0.05
H247100		820	6.3	36.5	<0.002	0.01	6.59	5.7	3	0.7	165.0	0.85	0.05	2.2	0.321	0.20
H247101		250	1.6	3.7	<0.002	0.01	0.09	0.3	1	<0.2	50.0	0.13	<0.05	0.2	0.008	0.02
H247102		310	2.7	17.9	<0.002	0.10	0.86	2.9	2	0.3	144.5	0.33	0.05	0.9	0.142	0.08
H247103		110	2.7	5.3	<0.002	0.05	0.14	1.1	2	<0.2	130.0	0.12	<0.05	0.4	0.047	0.02
H247104		310	4.1	21.2	<0.002	0.05	0.44	2.7	2	0.4	99.4	0.36	<0.05	1.0	0.138	0.08
H247105		270	1.9	13.8	<0.002	0.04	0.17	1.9	2	0.2	117.0	0.23	<0.05	0.7	0.087	0.09
H247106		120	15.8	7.6	0.005	>10.0	22.1	0.5	5	1.2	93.0	<0.05	0.91	0.5	0.009	0.10
H247107		640	38.5	19.4	<0.002	0.06	4.42	4.0	2	0.4	21.8	0.09	0.13	1.5	0.063	0.30
H247108		610	13.4	9.7	<0.002	0.03	1.49	2.5	2	0.3	10.0	0.07	0.08	0.8	0.040	0.17
H247109		460	2.9	23.9	<0.002	0.01	0.29	1.3	2	0.3	34.9	0.12	<0.05	0.4	0.041	0.19
H247110		330	15.7	27.1	<0.002	0.01	0.86	1.3	2	0.4	50.0	0.12	0.05	0.4	0.042	0.18
H247111		20	25.0	5.7	0.002	0.57	0.52	1.0	2	0.7	65.2	0.10	<0.05	0.3	0.040	0.14
H247112		60	28.9	53.1	<0.002	1.57	0.84	3.2	2	3.7	73.7	0.25	0.10	0.6	0.111	0.47
H247113		80	5.7	33.1	0.002	0.84	0.53	2.4	2	1.0	93.4	0.17	<0.05	0.3	0.049	0.32
H247114		230	1.4	1.2	<0.002	0.01	0.06	0.2	2	<0.2	49.2	<0.05	<0.05	<0.2	<0.005	<0.02
H247115		190	3.8	22.4	0.005	4.31	2.02	1.2	10	1.7	82.7	0.12	<0.05	0.6	0.042	0.37
H247116		450	3.5	12.4	<0.002	5.05	1.39	2.8	2	1.4	63.5	0.25	0.24	0.6	0.082	0.24
H247117		40	1.6	13.6	<0.002	1.08	0.50	2.1	2	1.1	58.7	0.23	0.06	0.5	0.081	0.15
H247118		160	1.4	14.9	<0.002	1.19	0.47	2.0	2	1.1	53.6	0.34	<0.05	0.9	0.101	0.17
H247119		500	1.5	37.6	<0.002	3.32	1.41	8.1	2	2.6	60.0	0.52	0.09	1.4	0.258	0.33
H247120		490	1.4	36.4	<0.002	3.27	1.12	7.8	1	2.6	56.8	0.55	0.06	1.5	0.261	0.30
H247121		360	1.9	13.7	<0.002	2.67	0.66	2.6	2	1.1	78.3	0.38	<0.05	1.0	0.113	0.13
H247122		1130	1.9	60.5	<0.002	9.15	0.66	15.9	2	2.1	88.1	1.29	<0.05	3.4	0.510	0.35
H247123		1500	2.1	76.8	<0.002	7.50	1.30	18.1	2	2.7	85.5	0.96	<0.05	3.4	0.453	0.39
H247124		230	14.1	27.9	0.017	>10.0	4.01	1.9	7	2.8	83.8	0.21	0.18	0.7	0.104	0.25
H247125		280	2.7	26.8	<0.002	2.12	0.63	3.8	2	2.0	69.4	0.45	<0.05	1.4	0.161	0.26
H247126		430	27.6	8.9	0.014	5.84	4.57	3.1	13	1.9	123.0	<0.05	<0.05	1.8	0.036	0.52
H247127		620	14.9	134.5	<0.002	2.72	1.27	6.7	2	2.4	71.9	0.59	0.05	3.0	0.214	1.18

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Project: RAU

Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072171

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H247092		1.0	9	21.6	17.4	674	5.6
H247093		0.6	10	378	19.4	270	6.7
H247094		3.5	10	9.4	60.4	3230	5.3
H247095		3.8	22	7.3	55.7	2900	15.5
H247096		0.2	2	0.6	4.8	76	2.9
H247097		0.1	1	<0.1	3.9	9	1.1
H247098		0.4	14	<0.1	10.1	22	16.3
H247099		0.6	13	<0.1	7.0	11	12.5
H247100		1.8	49	1.1	17.7	30	59.5
H247101		0.8	3	<0.1	1.1	14	2.3
H247102		0.5	23	<0.1	11.7	38	21.5
H247103		0.1	5	<0.1	6.7	20	6.4
H247104		0.5	23	0.1	11.2	46	21.2
H247105		0.4	13	<0.1	11.4	118	15.7
H247106		1.0	7	199.0	7.8	133	3.1
H247107		3.8	31	38.9	31.8	2250	19.6
H247108		3.1	23	7.4	28.3	2010	11.3
H247109		0.4	13	0.7	8.0	312	8.3
H247110		0.6	12	0.8	9.5	430	10.7
H247111		0.4	9	65.1	4.6	410	5.7
H247112		1.1	23	10.0	7.0	192	20.1
H247113		2.2	16	2.1	10.8	59	21.3
H247114		0.5	2	<0.1	0.9	12	0.5
H247115		1.0	11	2670	9.7	20	19.4
H247116		0.8	20	23.2	11.3	29	20.9
H247117		0.5	15	3.7	6.5	7	16.0
H247118		0.6	14	4.4	5.9	7	20.5
H247119		1.1	71	3.4	10.3	9	39.9
H247120		1.1	70	3.5	9.5	9	39.3
H247121		0.7	20	2.4	9.7	13	22.4
H247122		0.8	134	1.8	14.9	35	39.6
H247123		0.9	125	3.0	14.7	26	40.4
H247124		0.4	18	61.9	6.8	32	8.8
H247125		0.9	39	12.2	7.6	13	30.8
H247126		10.1	17	5390	20.1	416	6.5
H247127		3.3	62	7.2	12.0	42	52.4

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 22-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072171

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE VA09072170

Project: RAU

P.O. No.: Batch 11

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex

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

Project: RAU

Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072170

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H247164		3.04	0.01	<0.01	6.89	17	920	2.27	42.3	12.30	0.03	129.5	46.5	44	29.6	17.3
H247165		1.96	0.14	3.00	5.04	>10000	1650	2.10	105.5	0.54	10.65	80.5	6.1	49	5.36	28.4
H247166		3.90	0.11	0.39	5.06	7520	1030	2.17	34.4	0.42	6.00	46.4	19.5	61	10.60	65.2
H247167		4.78	0.83	0.54	3.76	705	750	1.25	45.3	0.51	0.98	17.00	12.0	49	9.63	19.6
H247168		3.32	0.18	0.39	2.16	818	540	0.94	13.75	3.96	0.36	74.0	38.8	45	5.48	177.5
H247169		8.70	0.02	0.09	9.08	66.2	1900	3.07	5.06	0.60	0.04	172.0	8.6	74	15.30	21.2
H247170		7.04	0.17	<0.01	8.68	17.1	1350	2.64	0.63	1.81	0.04	153.5	21.5	68	37.7	2.2
H247171		11.08	<0.01	<0.01	9.42	6.2	1520	2.72	0.12	1.21	0.02	161.0	22.6	72	50.1	<0.2
H247172		3.16	0.05	<0.01	8.94	5.5	1380	2.29	0.16	4.63	0.04	130.5	19.0	67	55.6	4.4
H247173		9.32	0.01	<0.01	4.87	33	710	1.13	0.08	19.50	0.11	90.7	28.2	29	19.00	12.1
H247174		3.56	0.01	0.03	0.10	<5	20	0.05	0.06	19.50	0.06	2.02	0.9	1	0.26	1.7
H247175		2.44	<0.01	0.16	0.83	50	190	0.44	0.18	33.5	0.72	15.20	2.7	15	0.71	7.6
H247176		5.00	0.02	0.15	1.12	97	250	0.58	0.30	33.1	0.73	17.70	3.9	15	1.86	14.0
H247177		1.38	<0.01	0.87	5.72	177	1340	2.12	0.72	11.90	1.22	90.5	10.1	55	11.20	5.4
H247178		3.86	<0.01	0.11	9.63	108.5	2290	3.50	0.20	0.25	0.48	197.5	8.2	48	23.6	1.8
H247179		2.00	0.01	0.16	9.57	62.2	1960	3.85	0.25	0.29	0.65	221	8.6	118	14.45	0.8
H247180		0.82	0.01	0.14	9.90	97.5	2010	3.83	1.38	0.32	0.57	210	6.1	124	16.60	<0.2
H247181		0.68	0.01	<0.01	10.25	61.0	1850	3.85	0.45	0.12	0.47	145.0	18.6	35	7.77	5.0
H247182		1.06	0.61	4.11	7.67	3330	1350	2.88	136.0	0.23	1.17	91.3	5.9	115	5.32	7.4
H247183		0.28	5.48	0.24	0.15	>10000	30	0.05	469	8.45	0.04	40.0	1.7	15	0.78	38.7
H247184		0.38	0.93	46.0	0.87	>10000	480	0.46	936	0.48	5.98	23.2	4.2	18	1.14	15.6
H247185		3.88	<0.01	0.07	0.09	33	30	0.08	1.44	19.65	0.06	1.84	0.8	1	0.20	1.1
H247186		9.40	0.47	17.40	0.48	>10000	600	0.19	515	0.53	10.10	11.90	4.7	15	0.52	9.3
H247187		2.64	0.91	18.95	0.69	>10000	610	0.27	475	0.48	9.07	50.8	4.7	15	1.11	14.9
H247188		1.04	0.97	26.3	0.76	>10000	630	0.23	375	0.53	7.69	19.40	3.7	22	1.61	39.9
H247189		1.22	5.37	9.36	0.08	>10000	2280	<0.05	216	1.59	1.08	1.15	1.3	3	0.05	3.5
H247190		4.98	4.72	15.60	0.41	>10000	4530	0.26	758	0.44	3.08	12.25	1.7	13	0.36	8.0
H247191		2.88	6.58	9.50	3.52	9710	1950	1.38	1145	6.85	1.90	54.5	6.1	72	4.54	27.1
H247192		8.44	15.25	5.79	1.72	>10000	2760	0.70	1665	1.17	2.14	22.1	2.4	42	1.16	18.6
H247193		4.10	10.60	6.72	1.55	>10000	2920	0.78	1420	2.59	1.80	14.30	1.1	42	1.48	38.4
H247194		8.22	1.86	6.21	1.35	>10000	2630	0.78	498	1.83	14.95	62.6	3.4	64	0.51	99.2
H247195		0.28	1.55	1.75	0.11	>10000	30	<0.05	345	11.85	0.85	56.2	1.5	6	0.67	15.7
H247196		2.90	3.63	18.60	1.05	>10000	2850	0.76	602	1.07	14.55	43.2	4.6	44	0.23	98.1
H247197		1.32	1.22	22.3	0.14	6430	620	0.10	304	3.23	6.86	8.75	4.6	5	0.26	20.2
H247198		0.88	0.90	8.64	0.27	6410	500	0.34	129.0	16.40	9.20	12.80	2.7	3	0.15	18.4
H247199		0.26	2.40	11.55	0.55	>10000	1110	0.49	713	13.30	8.33	15.70	4.0	16	0.31	23.0

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Finalized Date: 23-JUL-2009
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CERTIFICATE OF ANALYSIS VA09072170

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H247164		2.88	26.3	0.21	1.4	<0.01	0.075	3.97	60.5	35.8	2.58	1300	0.34	0.10	39.9	114.0
H247165		20.6	22.6	0.27	0.9	<0.01	0.157	2.05	49.5	11.0	0.81	707	0.88	0.08	7.2	22.7
H247166		26.8	21.0	0.28	1.6	<0.01	0.121	1.87	25.9	20.0	1.62	1150	1.00	0.05	7.7	56.5
H247167		10.70	18.85	0.13	1.3	<0.01	0.047	1.86	10.0	11.3	1.24	646	0.97	0.03	7.0	34.4
H247168		29.7	14.45	0.30	0.8	<0.01	0.043	0.85	40.0	9.0	2.52	1460	1.10	0.04	6.3	114.0
H247169		6.90	35.4	0.29	0.7	<0.01	0.091	4.93	77.5	35.0	1.30	256	0.50	0.15	26.7	56.6
H247170		11.10	26.6	0.31	1.8	0.1	0.113	4.68	67.7	36.6	1.61	919	0.17	0.09	65.6	86.5
H247171		11.75	29.7	0.33	2.3	<0.01	0.123	4.44	73.8	50.4	1.48	716	0.14	0.10	87.8	92.2
H247172		10.30	28.8	0.29	2.3	<0.01	0.125	4.76	57.5	43.9	1.55	829	0.17	0.10	82.4	92.5
H247173		4.34	14.85	0.17	0.7	<0.01	0.072	2.60	40.4	19.4	1.06	852	0.27	0.07	41.7	59.8
H247174		0.41	0.35	0.07	<0.1	<0.01	0.005	0.05	0.9	1.3	12.35	188	0.20	0.01	0.6	0.8
H247175		0.96	2.66	0.08	0.4	<0.01	0.015	0.40	9.5	1.6	0.27	716	0.17	0.01	5.1	4.7
H247176		1.40	3.53	0.07	0.4	<0.01	0.016	0.56	10.5	2.4	0.25	648	0.25	0.01	6.1	10.0
H247177		5.20	18.55	0.19	0.9	0.01	0.063	2.99	45.1	18.5	0.71	824	0.34	0.06	48.8	37.1
H247178		6.06	33.6	0.30	0.8	0.01	0.128	5.33	84.8	36.7	0.96	328	0.36	0.10	98.2	32.8
H247179		4.27	36.0	0.28	0.7	0.3	0.126	5.44	106.0	36.6	0.82	398	0.89	0.10	68.0	29.9
H247180		4.61	35.7	0.27	0.6	<0.1	0.124	5.35	104.5	37.1	0.88	333	0.99	0.10	57.9	28.1
H247181		3.13	38.2	0.24	1.5	<0.1	0.118	5.13	62.5	30.7	0.81	188	0.78	0.08	85.5	26.5
H247182		20.5	25.3	0.28	1.0	<0.1	0.090	3.86	46.5	13.5	0.57	58	4.14	0.06	11.2	16.7
H247183		23.7	1.16	0.27	0.1	0.1	0.080	0.09	24.2	1.4	4.70	1440	11.25	0.01	1.5	12.3
H247184		49.0	3.23	0.57	0.4	0.1	0.625	0.42	11.7	2.2	0.18	278	6.38	0.02	4.6	12.3
H247185		0.50	0.29	<0.05	<0.1	<0.1	<0.005	0.04	0.8	1.3	12.55	182	0.12	0.01	0.4	0.6
H247186		49.2	2.35	0.62	0.2	0.1	0.282	0.13	5.8	1.1	0.18	389	6.41	0.02	1.1	13.4
H247187		47.8	3.27	0.54	0.4	<0.1	0.284	0.21	31.5	1.4	0.19	512	6.79	0.03	1.8	13.0
H247188		42.9	3.24	0.46	0.3	<0.1	0.217	0.30	10.2	2.0	0.18	422	6.34	0.03	4.0	15.0
H247189		43.6	0.64	0.41	0.2	<0.1	0.058	0.02	0.6	0.3	0.08	66	5.01	0.03	0.4	5.6
H247190		31.0	2.80	0.30	0.6	<0.1	0.072	0.05	7.1	0.9	0.15	225	5.21	0.06	2.5	6.7
H247191		19.70	16.20	0.32	2.2	<0.1	0.201	1.50	27.2	8.7	0.48	792	4.10	0.07	4.5	24.2
H247192		28.0	14.15	0.29	1.6	<0.1	0.340	0.78	12.5	5.4	0.16	485	1.34	0.06	4.6	9.9
H247193		26.1	13.75	0.46	1.8	<0.1	1.155	0.74	8.6	5.0	0.15	465	1.20	0.06	4.7	4.8
H247194		41.7	20.8	0.50	0.7	<0.1	1.565	0.44	28.7	3.8	0.12	1020	1.11	0.03	1.6	15.2
H247195		16.50	1.02	0.22	0.1	<0.1	0.098	0.06	36.1	2.1	6.73	2120	6.14	0.01	0.6	5.9
H247196		47.0	13.50	0.56	0.2	<0.1	0.749	0.32	18.1	5.1	0.11	1530	1.34	0.03	0.5	18.2
H247197		23.4	1.03	0.20	0.1	0.02	0.182	0.03	3.2	0.7	0.38	2050	1.57	0.01	0.2	13.9
H247198		23.0	1.57	0.21	0.1	0.01	0.144	0.07	6.4	0.9	2.02	1820	0.58	0.01	0.5	8.9
H247199		20.5	4.35	0.29	0.3	0.02	0.224	0.23	7.5	1.7	0.95	2840	1.16	0.06	1.6	11.9

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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H247164		2490	3.3	328	<0.002	0.73	0.61	16.4	2	13.5	70.9	2.28	0.10	5.1	1.150	2.05
H247165		860	10.9	109.0	<0.002	0.19	7.88	10.6	3	3.1	92.6	0.43	0.77	4.5	0.257	0.79
H247166		1480	11.9	142.0	<0.002	0.08	7.26	10.2	3	2.7	43.8	0.43	0.45	4.3	0.333	1.43
H247167		1700	6.1	137.5	<0.002	0.23	2.24	6.8	2	2.3	42.6	0.43	0.23	3.8	0.193	1.73
H247168		3270	3.0	73.6	<0.002	0.56	0.98	5.4	3	2.7	92.0	0.33	0.36	3.5	0.138	1.04
H247169		1820	3.3	294	<0.002	0.82	0.98	21.8	2	20.0	102.0	1.41	0.21	5.8	0.675	1.92
H247170		1020	3.2	331	<0.002	0.83	1.05	20.4	2	14.4	38.0	3.83	0.05	6.0	1.960	3.21
H247171		1350	2.3	317	<0.002	0.03	0.59	23.0	2	14.2	41.8	5.15	<0.05	6.9	2.53	3.80
H247172		2510	1.9	332	<0.002	0.14	0.58	21.5	3	13.3	83.0	4.83	<0.05	6.4	2.43	3.89
H247173		2270	3.1	120.0	<0.002	0.02	0.54	11.1	3	2.8	236	2.36	<0.05	3.5	1.200	1.10
H247174		430	1.5	2.4	<0.002	0.01	<0.05	0.4	2	<0.2	71.9	<0.05	<0.05	0.2	0.008	0.02
H247175		220	7.3	18.8	<0.002	0.01	0.37	3.0	3	0.4	173.5	0.28	<0.05	0.9	0.114	0.11
H247176		390	13.5	33.6	<0.002	<0.01	0.63	3.6	2	0.4	94.8	0.35	<0.05	1.2	0.144	0.26
H247177		1530	36.9	162.0	<0.002	<0.01	3.72	10.8	2	2.5	65.2	2.96	<0.05	8.8	0.638	1.23
H247178		640	11.0	233	<0.002	<0.01	1.15	12.5	2	6.3	18.1	6.33	<0.05	27.5	0.611	1.47
H247179		1210	1.2	258	<0.002	<0.01	1.11	19.7	2	8.4	28.5	4.00	<0.05	22.9	0.801	1.14
H247180		1310	2.2	269	<0.002	<0.01	1.02	21.3	2	7.9	29.5	3.45	<0.05	18.9	0.831	1.16
H247181		550	0.9	193.0	<0.002	<0.01	0.99	11.9	2	12.7	10.5	5.58	<0.05	31.7	0.428	0.85
H247182		660	84.2	141.5	<0.002	0.09	6.43	12.7	3	8.1	12.7	0.55	0.45	8.6	0.250	0.86
H247183		70	6.3	9.0	0.002	>10.0	25.3	0.5	9	2.3	57.1	0.09	1.55	0.4	0.010	0.17
H247184		420	543	21.7	0.002	0.12	19.65	1.9	13	2.2	8.1	0.26	1.04	2.3	0.051	0.17
H247185		370	1.7	1.8	<0.002	0.02	0.06	0.3	2	<0.2	46.5	<0.05	<0.05	<0.2	<0.005	<0.02
H247186		180	370	6.8	<0.002	0.06	21.9	1.4	14	2.1	10.9	0.10	1.02	1.0	0.021	0.08
H247187		280	363	13.5	<0.002	0.06	20.8	1.6	5	2.0	12.4	0.09	1.10	1.8	0.028	0.13
H247188		200	223	18.0	<0.002	0.06	14.15	1.4	4	1.4	12.7	0.22	1.02	1.6	0.046	0.15
H247189		120	83.0	1.2	<0.002	0.08	14.05	0.1	4	0.8	34.5	<0.05	0.44	<0.2	0.006	0.04
H247190		70	250	2.9	<0.002	0.15	43.7	0.6	12	2.5	28.7	0.16	1.65	0.6	0.039	0.10
H247191		630	262	82.1	<0.002	0.10	98.1	5.8	26	6.3	44.3	1.23	1.74	3.7	0.364	0.83
H247192		360	366	35.6	<0.002	0.49	127.5	4.5	22	6.9	204	0.24	2.10	2.0	0.108	0.49
H247193		780	1015	34.1	<0.002	0.45	122.0	14.5	56	6.2	357	0.26	3.86	1.9	0.100	0.69
H247194		760	441	32.2	<0.002	0.49	95.3	19.9	19	3.4	457	0.09	2.26	7.9	0.022	0.74
H247195		120	15.2	8.1	0.005	>10.0	22.7	0.5	5	1.2	87.9	<0.05	0.89	0.5	0.009	0.08
H247196		500	499	10.3	<0.002	0.55	31.8	8.8	18	5.7	390	0.05	1.05	4.7	0.016	0.43
H247197		120	553	2.2	<0.002	0.05	3.33	1.8	7	0.5	12.3	<0.05	0.24	0.2	<0.005	0.08
H247198		160	261	4.9	<0.002	0.04	3.17	1.6	8	1.2	20.7	<0.05	0.14	0.2	0.009	0.05
H247199		260	403	9.7	0.003	0.14	18.80	2.7	14	2.2	111.0	0.08	0.56	0.8	0.042	0.22

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	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
H247164		0.9	174	10.2	20.1	24	55.9
H247165		3.9	145	29.0	25.6	1070	36.1
H247166		4.6	170	19.4	31.0	1360	70.3
H247167		1.9	81	5.3	10.0	383	55.8
H247168		2.5	182	7.9	22.5	380	29.8
H247169		0.9	171	8.9	16.8	31	24.6
H247170		0.2	133	1.7	19.2	55	76.6
H247171		0.2	150	1.1	20.1	73	106.5
H247172		0.4	183	1.3	23.5	66	103.5
H247173		0.5	158	0.7	17.9	36	29.3
H247174		0.7	2	0.1	1.3	14	<0.5
H247175		0.3	17	2.1	9.2	60	10.3
H247176		0.3	22	2.2	9.7	139	13.1
H247177		0.8	92	10.7	18.3	901	36.7
H247178		0.5	76	4.3	25.0	158	27.0
H247179		0.5	141	5.9	28.6	67	28.1
H247180		0.5	147	5.2	26.3	75	22.4
H247181		0.6	75	6.1	17.3	46	52.2
H247182		1.8	113	72.8	6.9	287	38.4
H247183		0.5	6	38.6	4.6	10	4.7
H247184		4.7	13	43.0	4.1	1480	13.9
H247185		0.6	2	0.2	1.1	17	0.5
H247186		4.6	11	22.5	6.1	1790	10.5
H247187		3.2	15	46.5	5.5	1280	12.5
H247188		2.8	14	126.5	3.8	981	10.5
H247189		2.1	3	4.7	0.4	63	2.9
H247190		2.8	10	191.0	2.0	405	<0.5
H247191		2.3	82	355	19.7	1180	50.4
H247192		3.4	63	280	12.1	832	66.3
H247193		3.4	56	274	6.0	328	73.8
H247194		3.9	57	99.0	23.2	2240	24.3
H247195		0.7	6	186.5	7.1	138	3.1
H247196		4.0	46	880	20.1	2050	9.6
H247197		1.5	9	22.6	10.0	950	2.1
H247198		1.3	11	6.5	12.5	1250	3.7
H247199		1.5	18	386	10.9	1600	14.9

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

e: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09072170

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE VA09071909

Project: RAU

P.O. No.: Batch 10

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071909

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247128		3.02	0.01	0.03	0.86	460	40	0.24	8.45	18.80	0.03	12.30	2.0	14	5.02	1.7
H247129		4.42	0.02	0.10	0.76	125	40	0.39	234	17.50	0.05	93.9	2.9	12	8.21	3.8
H247130		4.86	0.20	0.11	1.27	454	350	0.52	15.65	15.05	0.03	28.8	3.8	23	16.35	9.7
H247131		4.24	0.13	0.17	2.17	211	240	0.82	26.1	15.05	0.03	34.4	6.9	41	22.4	15.6
H247132		5.04	0.04	0.08	0.45	194	20	0.23	38.0	16.50	0.03	10.40	2.1	3	4.25	4.6
H247133		6.16	0.05	0.05	0.25	788	20	0.15	38.1	16.90	0.05	9.93	1.5	3	2.62	3.2
H247134		4.34	0.29	0.17	0.17	7680	30	0.10	57.7	12.40	0.02	9.59	0.9	3	1.36	9.3
H247135		5.62	0.13	0.12	0.14	250	20	0.10	48.4	17.85	0.06	13.10	0.8	1	1.17	2.1
H247136		4.12	<0.01	0.02	0.06	10	10	0.06	0.14	19.35	0.06	1.36	1.1	<1	0.17	1.6
H247137		5.64	0.10	0.11	0.30	4160	20	0.21	34.2	15.65	0.06	8.84	1.3	3	3.33	3.7
H247138		2.48	0.19	0.15	0.04	5620	10	<0.05	153.0	9.85	0.03	33.0	0.8	1	0.49	4.1
H247139		4.74	0.08	0.12	0.23	1140	10	<0.05	140.5	7.44	0.03	13.55	1.4	7	2.39	4.6
H247140		3.88	0.28	0.08	0.93	8930	190	0.40	58.4	16.05	0.04	13.00	1.6	5	9.26	3.0
H247141		2.46	0.04	0.10	1.35	402	380	0.50	2.60	17.75	0.04	10.35	2.0	9	11.20	2.6
H247142		3.56	0.61	0.20	0.09	>10000	20	<0.05	2820	7.09	<0.02	17.90	0.7	4	0.79	7.9
H247143		6.10	0.49	0.11	0.18	>10000	10	0.13	121.5	12.05	0.03	21.8	1.3	3	1.52	4.9
H247144		0.28	1.48	1.86	0.10	>10000	20	<0.05	340	12.20	0.88	64.4	1.9	6	0.80	17.5
H247145		4.66	0.48	0.08	0.25	>10000	60	0.15	72.0	12.15	0.03	32.9	0.9	3	3.65	3.8
H247146		3.02	1.63	0.11	0.12	>10000	10	<0.05	130.5	7.27	<0.02	39.5	0.8	1	1.44	4.2
H247147		0.28	5.79	0.25	0.11	>10000	30	0.07	450	8.08	0.04	42.3	2.0	12	0.92	42.5
H247148		4.46	2.37	0.07	0.60	3190	20	0.31	39.2	16.20	0.04	10.30	1.5	5	5.26	3.6
H247149		5.58	0.62	0.10	0.72	506	40	0.39	46.0	16.45	0.04	12.80	1.4	6	9.64	2.7
H247150		5.66	0.11	0.09	0.38	4360	20	0.22	72.5	17.30	0.05	26.1	1.2	3	3.56	2.9
H247151		4.38	0.17	0.09	0.27	6050	10	<0.05	160.5	12.85	<0.02	25.7	1.3	1	2.85	5.2
H247152		3.36	0.17	0.11	0.54	5340	20	<0.05	56.3	16.30	0.03	9.09	2.4	4	5.53	3.5
H247153		6.88	0.76	0.17	0.13	>10000	20	0.05	57.3	9.48	<0.02	88.9	0.6	2	1.55	3.9
H247154		5.32	1.21	0.15	0.02	>10000	<10	<0.05	117.5	4.92	0.02	106.0	0.4	<1	0.17	4.1
H247155		5.32	1.31	0.10	0.14	>10000	20	0.08	60.4	14.55	0.07	25.0	2.5	2	1.09	3.1
H247156		3.66	0.16	0.06	0.03	6840	10	<0.05	145.5	14.45	0.09	29.5	0.9	<1	0.44	2.8
H247157		4.66	0.14	0.08	0.02	2020	<10	<0.05	128.5	13.30	0.06	39.6	0.5	<1	0.26	2.9
H247158		4.54	<0.01	0.01	0.07	18	20	0.06	0.75	19.25	0.04	1.01	0.7	1	0.16	2.0
H247159		6.06	0.35	0.05	0.63	1840	70	0.20	527	10.80	0.02	23.6	7.1	6	2.44	8.9
H247160		5.16	0.04	0.21	6.54	86.0	210	2.25	84.4	4.28	<0.02	105.5	40.2	47	25.7	20.3
H247161		2.42	0.05	0.19	6.35	91.7	200	2.10	51.4	4.21	0.02	94.1	40.7	48	24.8	24.4
H247162		4.10	0.08	0.16	4.81	51	370	1.45	169.0	11.00	<0.02	63.2	56.6	27	58.9	20.1
H247163		3.14	0.02	0.16	5.13	67.3	160	1.54	273	9.45	0.02	73.0	53.2	31	47.6	21.9

***** See Appendix Page for comments regarding this certificate *****

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To: ATAC RESOURCES LTD.
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071909

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
H247128		2.17	3.52	<0.05	0.5	<0.01	0.008	0.51	7.0	6.2	11.15	1220	0.25	0.04	4.6	8.1
H247129		2.61	4.60	0.11	0.5	<0.01	0.026	0.52	57.6	7.2	10.35	1380	0.22	0.03	5.5	9.2
H247130		3.06	6.94	0.09	0.7	<0.01	0.025	1.04	16.7	13.7	9.07	1370	0.16	0.02	7.2	15.5
H247131		4.86	12.30	0.12	1.2	<0.01	0.032	1.57	18.0	19.4	8.97	1620	0.42	0.04	11.1	23.5
H247132		5.68	2.95	0.11	0.2	<0.01	0.023	0.26	5.4	4.7	10.00	1140	0.07	0.02	2.2	6.4
H247133		4.87	1.82	0.08	0.1	<0.01	0.028	0.16	5.0	4.2	10.00	1220	0.09	0.02	1.4	3.9
H247134		9.73	1.38	0.15	<0.1	<0.01	0.032	0.09	4.2	2.8	7.25	1320	0.12	0.01	0.6	2.1
H247135		3.47	1.06	0.08	<0.1	<0.01	0.027	0.07	7.7	3.5	10.90	1230	0.08	0.01	0.6	2.1
H247136		0.42	0.25	<0.05	<0.1	<0.01	0.006	0.03	0.7	1.1	12.40	189	0.08	<0.01	0.3	1.6
H247137		6.99	2.11	0.11	0.1	<0.01	0.025	0.20	5.1	3.6	9.79	958	0.23	0.01	1.5	4.1
H247138		17.05	0.54	0.26	<0.1	<0.01	0.026	0.03	20.3	1.3	5.68	1160	0.13	0.01	0.3	1.4
H247139		11.95	1.65	0.20	<0.1	<0.01	<0.005	0.16	7.9	2.2	4.20	670	0.19	0.01	0.9	4.3
H247140		5.39	4.86	0.09	0.4	<0.01	0.028	0.67	7.8	10.1	9.66	1440	0.10	0.02	4.7	5.4
H247141		1.51	6.14	0.07	0.4	<0.01	0.018	1.02	7.0	15.7	10.65	894	0.19	0.02	7.3	6.5
H247142		15.85	0.93	0.20	<0.1	<0.01	0.027	0.05	10.4	2.0	3.87	652	0.11	0.01	0.4	2.6
H247143		12.70	1.27	0.20	<0.1	<0.01	0.043	0.09	13.2	2.1	7.36	872	0.21	0.01	0.7	5.2
H247144		16.90	1.09	0.25	<0.1	<0.01	0.109	0.06	43.6	2.2	6.92	2200	6.14	0.01	0.6	7.3
H247145		13.45	1.66	0.19	0.1	<0.01	0.048	0.20	21.1	3.9	7.07	1060	0.17	0.01	1.1	2.7
H247146		22.3	0.86	0.27	<0.1	<0.01	0.078	0.09	26.4	2.5	3.89	789	0.25	0.01	0.7	2.5
H247147		22.8	1.17	0.28	<0.1	<0.01	0.085	0.07	27.1	1.7	4.58	1430	11.90	0.01	1.4	14.2
H247148		4.15	3.06	0.08	0.3	<0.01	0.023	0.32	6.0	5.4	9.53	1310	0.11	0.03	3.7	5.0
H247149		3.71	3.42	0.07	0.3	<0.01	0.024	0.61	7.7	8.0	9.52	1200	0.10	0.01	4.1	3.9
H247150		4.26	2.28	0.09	0.2	<0.01	0.028	0.21	16.0	4.0	9.77	1600	0.08	0.02	2.7	2.7
H247151		12.10	1.93	0.21	0.1	<0.01	0.025	0.20	12.7	3.0	7.02	1660	0.08	0.01	0.6	3.5
H247152		6.03	3.25	0.15	0.2	<0.01	0.009	0.38	4.5	4.5	9.31	1230	0.08	0.02	2.8	8.0
H247153		21.8	1.08	0.34	<0.1	<0.01	0.046	0.10	61.1	2.0	5.24	1020	0.29	<0.01	0.8	1.3
H247154		31.4	0.75	0.44	<0.1	<0.01	0.075	0.01	74.1	1.1	2.59	662	0.27	<0.01	0.3	0.8
H247155		11.75	1.12	0.14	<0.1	<0.01	0.093	0.07	14.6	2.5	7.57	3150	0.15	0.01	0.7	4.0
H247156		12.55	0.47	0.17	<0.1	<0.01	0.046	0.02	18.3	2.0	8.20	2710	0.06	0.01	0.2	0.4
H247157		13.25	0.45	0.18	<0.1	<0.01	0.046	0.01	25.1	1.9	7.69	2360	0.10	0.01	0.1	<0.2
H247158		0.43	0.23	<0.05	<0.1	<0.01	<0.005	0.03	0.5	0.8	12.10	193	0.06	<0.01	0.2	0.4
H247159		12.30	3.06	0.17	0.1	<0.01	0.032	0.34	14.0	4.8	5.97	2210	0.22	0.01	4.0	19.0
H247160		12.65	27.4	0.29	2.0	<0.01	0.064	3.56	48.5	39.6	2.22	1180	0.46	0.08	25.9	115.0
H247161		13.45	25.4	0.28	1.7	<0.01	0.064	3.47	44.9	38.4	2.20	1180	0.57	0.09	25.5	126.0
H247162		7.92	23.1	0.22	1.8	<0.01	0.042	3.56	33.2	54.1	5.17	2960	0.18	0.11	21.9	74.2
H247163		8.83	20.5	0.22	1.1	<0.01	0.036	3.96	38.5	46.5	4.75	1660	0.19	0.08	27.1	76.9

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Project: RAU

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071909

Sample Description	Method Analyte Units LOR	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02
H247128		210	2.3	69.9	<0.002	1.62	0.35	1.4	2	0.8	56.7	0.26	<0.05	0.6	0.077	0.37
H247129		230	4.5	89.3	<0.002	1.48	2.50	2.2	3	1.3	82.2	0.29	0.24	1.3	0.069	0.53
H247130		300	2.8	101.0	<0.002	2.17	1.96	3.2	3	1.2	75.4	0.42	0.08	1.4	0.092	0.95
H247131		540	2.9	145.5	0.002	3.88	2.65	4.6	5	2.3	86.7	0.66	0.08	2.2	0.153	1.28
H247132		180	2.9	57.7	<0.002	5.86	1.55	1.2	5	0.8	103.5	0.13	0.07	0.7	0.032	0.30
H247133		170	2.7	34.6	<0.002	4.88	1.06	1.0	3	0.5	120.5	0.05	0.07	0.2	0.021	0.18
H247134		140	5.3	12.7	0.022	9.56	5.44	1.2	12	1.8	71.8	<0.05	<0.05	0.2	0.009	0.44
H247135		110	2.8	10.9	0.007	2.54	0.96	0.7	3	0.4	70.4	<0.05	0.08	0.3	0.009	0.16
H247136		210	1.5	1.3	<0.002	0.02	0.09	0.2	2	<0.2	52.3	<0.05	<0.05	<0.2	<0.005	<0.02
H247137		120	3.0	44.0	<0.002	7.18	1.76	0.9	5	0.6	64.7	0.08	0.14	0.3	0.021	0.22
H247138		60	2.9	3.6	0.005	>10.0	3.07	0.9	6	0.3	63.2	<0.05	0.27	0.2	<0.005	0.10
H247139		70	3.5	28.4	0.012	>10.0	2.36	0.8	9	1.4	40.0	0.05	<0.05	0.2	0.011	0.43
H247140		150	2.8	67.4	<0.002	4.85	3.58	1.0	3	0.8	72.3	0.29	0.19	1.2	0.043	0.55
H247141		160	2.0	94.9	<0.002	1.05	0.46	1.7	2	0.9	57.6	0.36	0.10	1.0	0.070	0.80
H247142		50	14.3	8.9	0.031	>10.0	154.0	0.5	19	1.6	41.0	<0.05	1.45	0.2	0.006	0.52
H247143		100	2.7	17.2	<0.002	>10.0	8.43	0.7	8	0.5	55.5	<0.05	1.01	0.3	0.011	0.11
H247144		120	15.2	7.5	0.005	>10.0	23.6	0.5	5	1.3	91.4	<0.05	1.00	0.5	0.009	0.09
H247145		90	3.1	23.3	<0.002	>10.0	6.22	0.8	7	0.4	65.4	0.05	1.20	0.4	0.015	0.24
H247146		50	23.5	10.3	<0.002	>10.0	17.90	0.6	21	1.2	40.3	<0.05	4.85	0.4	0.007	0.12
H247147		70	6.8	7.9	0.003	>10.0	26.6	0.4	9	2.4	60.0	0.08	1.79	0.4	0.008	0.16
H247148		200	3.3	47.0	<0.002	3.61	2.16	1.1	3	0.8	69.2	0.19	0.13	0.7	0.041	0.33
H247149		180	2.4	79.1	<0.002	3.30	1.66	0.9	4	0.7	69.2	0.22	0.10	0.8	0.041	0.59
H247150		150	2.8	45.6	<0.002	3.38	2.60	0.7	3	0.6	81.7	0.15	0.19	0.9	0.025	0.23
H247151		130	4.3	42.9	0.046	>10.0	5.72	1.1	16	1.6	81.1	<0.05	0.14	0.4	0.016	0.85
H247152		300	3.9	81.1	0.012	5.82	2.67	1.0	12	1.8	71.7	0.15	<0.05	0.5	0.050	0.59
H247153		100	3.2	11.4	<0.002	>10.0	11.35	0.4	17	1.2	52.3	<0.05	3.16	0.5	0.009	0.12
H247154		40	5.2	0.9	0.009	>10.0	17.50	0.3	24	1.1	32.6	<0.05	5.73	0.4	<0.005	0.18
H247155		150	3.1	8.6	<0.002	9.59	5.23	0.6	3	0.5	103.5	<0.05	0.30	<0.2	0.016	0.10
H247156		30	3.3	2.6	<0.002	>10.0	5.97	0.4	4	0.3	100.0	<0.05	0.35	0.2	<0.005	0.04
H247157		10	3.1	1.4	0.002	>10.0	4.24	0.4	5	0.2	101.0	<0.05	0.22	0.2	<0.005	0.04
H247158		230	1.3	1.2	<0.002	0.03	0.06	0.1	2	<0.2	38.5	<0.05	<0.05	<0.2	<0.005	<0.02
H247159		580	5.2	15.6	<0.002	>10.0	7.20	1.7	11	1.6	80.6	0.17	0.47	0.4	0.090	0.19
H247160		1950	2.3	192.5	<0.002	>10.0	0.98	16.3	3	8.0	42.2	1.55	0.11	4.9	0.787	1.86
H247161		1790	2.0	182.5	<0.002	>10.0	0.78	15.0	3	8.1	40.0	1.51	0.08	4.4	0.805	1.77
H247162		2930	2.3	311	<0.002	5.80	1.28	11.1	2	12.2	79.3	1.25	0.15	3.2	0.679	2.82
H247163		3290	2.8	418	<0.002	8.15	1.72	11.3	3	10.0	59.6	1.55	0.31	3.1	0.833	2.70

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071909

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
H247128		0.7	22	2.8	5.7	12	20.1
H247129		1.4	19	18.8	8.9	12	24.2
H247130		0.8	27	135.0	10.3	11	26.7
H247131		1.6	42	208	13.9	14	47.7
H247132		0.5	10	9.4	6.8	10	11.2
H247133		0.2	8	3.0	6.3	13	6.3
H247134		0.2	7	2800	6.8	10	7.5
H247135		4.3	7	760	8.6	11	3.5
H247136		0.5	2	2.5	0.9	14	<0.5
H247137		0.3	8	18.0	6.9	14	9.0
H247138		0.3	4	610	5.9	7	0.7
H247139		0.5	6	2550	3.8	6	5.6
H247140		0.7	10	94.4	5.6	11	16.8
H247141		0.4	13	9.4	6.5	9	17.1
H247142		0.3	3	4070	4.6	4	2.3
H247143		0.4	5	165.5	4.9	6	4.8
H247144		1.1	6	210	7.5	135	3.3
H247145		0.4	7	170.0	4.9	7	6.0
H247146		0.5	5	176.5	2.6	3	2.7
H247147		0.6	6	39.6	4.8	8	5.3
H247148		0.4	7	10.0	5.8	10	9.7
H247149		0.5	7	59.3	5.9	11	11.4
H247150		0.4	5	70.4	6.3	11	10.5
H247151		0.4	6	2200	9.9	9	7.1
H247152		0.5	8	1950	6.0	12	16.7
H247153		1.2	5	47.6	3.0	6	3.0
H247154		1.1	3	1180	2.6	2	<0.5
H247155		0.2	9	117.0	6.0	15	4.1
H247156		0.4	4	112.0	4.9	23	0.7
H247157		1.8	4	221	5.1	11	<0.5
H247158		0.3	1	1.5	0.7	13	<0.5
H247159		0.5	25	113.0	7.6	11	2.3
H247160		1.2	139	7.6	16.4	13	78.3
H247161		1.0	136	0.6	15.0	13	71.5
H247162		1.7	116	95.3	19.5	27	64.0
H247163		1.2	126	7.5	21.4	22	40.4

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 24-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071909

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

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Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE VA09071813

Project:

P.O. No.:

This report is for 12 Other samples submitted to our lab in Vancouver, BC, Canada on 21-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis
FND-03	Find Reject for Addn Analysis
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA14	Ore Grade Au Cyanide AA, 1000g	AAS
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

Signature:

Milder Mascaraqui, Laboratory Manager, Peru

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Finalized Date: 31-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071813

Sample Description	Method Analyte Units LOR	Au-AA26 Au ppm 0.01	Au-AA14 Au ppm 0.01	Ag-GRA21 Ag ppm 5
RAU-CY-A - Reject		85.7	82.6	416
RAU-CY-A - Pulp		83.5		512
RAU-CY-B - Reject		7.76	7.50	<5
RAU-CY-B - Pulp		7.87		<5
RAU-CY-C - Reject		4.69	4.51	<5
RAU-CY-C - Pulp		4.30		<5
RAU-CY-D - Reject		2.70	2.68	<5
RAU-CY-D - Pulp		2.44		<5
RAU-CY-E - Reject		0.83	0.77	<5
RAU-CY-E - Pulp		0.81		<5
RAU-CY-F - Reject		0.25	0.26	<5
RAU-CY-F - Pulp		0.29		<5

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Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE VA09071609

Project: RAU

P.O. No.:

This report is for 43 Soil samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071609

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC44549		0.24	0.057	0.8	0.50	5470	<10	990	0.6	14	2.69	9.8	23	13	28	12.05
CC44550		0.26	0.690	5.8	0.52	2560	<10	210	<0.5	408	1.13	1.4	10	20	9	26.1
CC44551		0.22	9.88	0.8	1.50	>10000	<10	700	<0.5	178	3.40	<0.5	19	68	73	17.2
CC54081		0.20	0.008	0.9	0.43	57	<10	860	<0.5	2	6.37	2.1	50	42	95	7.23
CC54082		0.30	0.004	<0.2	3.49	32	<10	440	0.6	<2	2.41	<0.5	39	143	60	6.51
CC54083		0.24	0.002	<0.2	0.60	12	<10	70	<0.5	<2	16.8	<0.5	6	12	10	1.63
CC54084		0.30	0.002	<0.2	0.23	7	<10	10	<0.5	<2	19.7	<0.5	5	3	6	1.75
CC54085		0.30	0.003	0.3	0.10	13	<10	70	<0.5	<2	>25.0	0.5	2	4	5	0.60
CC54086		0.34	0.003	1.4	1.86	148	<10	1930	1.3	13	3.14	25.9	26	37	215	6.12
CC54087		0.30	0.002	0.4	0.80	8	<10	70	<0.5	<2	14.00	<0.5	7	17	16	2.16
CC54088		0.28	0.015	<0.2	0.25	62	<10	150	<0.5	3	11.10	4.4	10	6	14	1.82
CC54089		0.20	0.003	0.5	0.61	104	<10	420	0.7	<2	3.81	2.2	9	17	24	2.86
CC54090		0.30	0.002	1.4	0.62	34	<10	710	1.6	<2	2.46	5.0	19	25	146	5.23
CC54091		0.34	0.006	1.7	0.40	21	<10	830	0.7	<2	2.50	3.4	9	22	91	2.31
CC54124		0.20	0.007	<0.2	1.59	11	<10	220	0.9	<2	0.98	<0.5	18	26	86	4.22
CC54125		0.30	0.006	<0.2	1.20	126	<10	100	0.9	<2	1.23	<0.5	26	25	111	5.17
CC54126		0.40	0.015	<0.2	1.14	569	<10	140	1.0	<2	1.05	<0.5	25	26	125	5.96
CC54127		0.30	0.003	0.2	1.07	21	<10	60	0.9	<2	0.53	<0.5	21	56	44	4.49
CC54128		0.24	0.003	1.0	1.99	15	<10	230	0.5	<2	0.10	0.5	8	32	22	2.90
CC54129		0.24	0.003	0.3	2.07	17	<10	450	0.7	<2	0.29	<0.5	10	40	22	2.82
CC54130		0.22	0.002	3.0	1.24	19	<10	310	<0.5	<2	0.07	<0.5	4	24	7	2.48
CC54131		0.22	0.002	2.5	2.18	16	<10	360	0.5	<2	0.08	<0.5	9	38	19	3.70
CC54132		0.24	0.003	1.3	2.43	13	<10	280	0.8	<2	0.11	<0.5	10	37	19	3.43
CC54133		0.22	0.003	1.4	1.71	11	<10	200	<0.5	<2	0.09	<0.5	6	31	11	2.70
CC54134		0.26	0.003	2.6	2.15	13	<10	290	0.5	<2	0.11	<0.5	9	34	20	3.08
CC54135		0.20	0.003	5.2	2.33	18	<10	260	0.7	<2	0.09	0.7	11	42	24	4.03
CC54136		0.26	0.003	0.4	2.09	12	<10	360	0.6	<2	0.17	0.5	10	39	27	3.01
CC54137		0.28	0.003	2.2	0.98	11	<10	200	<0.5	<2	0.80	1.2	7	26	29	2.13
CC54138		0.26	0.004	1.0	1.34	14	<10	300	<0.5	<2	0.10	<0.5	5	39	30	2.12
CC54139		0.22	0.005	1.2	1.50	15	<10	150	<0.5	<2	0.08	<0.5	6	26	22	2.62
CC54140		0.26	0.004	3.4	1.40	37	<10	360	<0.5	<2	0.13	<0.5	5	27	23	3.20
CC54141		0.22	0.004	0.3	0.42	13	<10	110	<0.5	<2	0.03	<0.5	1	20	8	0.56
CC54142		0.26	0.005	0.9	1.66	26	<10	350	0.5	<2	0.08	<0.5	7	31	44	2.76
CC54143		0.22	0.002	0.2	1.62	14	<10	560	0.7	<2	2.51	0.7	8	27	19	2.55
CC54144		0.24	0.002	<0.2	1.72	16	<10	660	0.7	<2	1.40	<0.5	7	30	15	2.99
CC54145		0.24	0.002	<0.2	1.73	19	<10	260	0.7	<2	1.10	1.0	10	32	14	3.27
CC54146		0.22	0.002	<0.2	1.57	17	<10	230	0.6	<2	0.66	0.5	11	29	20	3.28
CC54147		0.26	0.001	<0.2	1.87	17	<10	200	0.8	<2	0.51	0.5	11	38	17	3.35
CC54148		0.28	0.005	0.3	1.59	15	<10	210	0.6	<2	0.77	0.5	8	30	19	3.10
CC54149		0.26	0.002	<0.2	1.66	16	<10	220	0.7	<2	0.64	0.6	8	28	20	3.17

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071609

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC44549		<10	<1	0.05	40	0.27	3690	1	0.02	81	1920	194	0.03	12	5	38
CC44550		<10	<1	0.03	<10	0.66	3120	4	0.01	73	490	155	0.05	11	8	9
CC44551		<10	<1	0.77	10	3.26	693	1	0.03	93	460	17	0.68	12	6	62
CC54081		<10	<1	0.07	10	0.83	632	1	0.02	252	1150	135	0.16	8	3	38
CC54082		10	<1	0.69	20	3.03	809	<1	0.01	133	1150	10	0.03	<2	9	66
CC54083		<10	<1	0.04	10	1.33	499	<1	0.02	14	420	12	0.06	<2	2	168
CC54084		<10	<1	0.02	10	1.38	245	<1	0.01	12	120	6	<0.01	<2	2	258
CC54085		<10	<1	0.03	<10	0.22	214	<1	0.02	6	100	8	<0.01	<2	2	189
CC54086		10	<1	0.19	20	1.42	5000	1	0.02	148	580	397	0.05	70	8	33
CC54087		<10	<1	0.13	10	0.93	361	<1	0.02	25	410	14	0.04	<2	2	195
CC54088		<10	<1	0.02	10	7.49	1335	<1	0.02	16	1440	909	0.04	4	1	37
CC54089		<10	<1	0.10	10	1.93	902	1	0.02	25	760	74	0.09	<2	4	58
CC54090		<10	<1	0.10	10	0.24	429	4	0.01	253	3360	17	0.22	<2	7	128
CC54091		<10	<1	0.10	<10	0.22	191	8	0.01	124	1560	11	0.14	<2	5	101
CC54124		<10	<1	0.09	10	0.84	629	<1	0.01	31	700	16	0.09	<2	8	43
CC54125		<10	<1	0.07	10	0.92	759	1	0.01	39	610	20	0.09	<2	9	41
CC54126		<10	1	0.08	10	0.65	850	1	0.01	41	580	17	0.10	<2	13	39
CC54127		<10	<1	0.08	<10	0.46	923	4	0.01	56	530	42	0.12	<2	6	54
CC54128		<10	<1	0.08	10	0.48	205	5	0.01	24	300	18	0.03	<2	3	13
CC54129		<10	<1	0.06	20	0.58	532	3	0.01	31	260	15	0.02	<2	6	18
CC54130		10	<1	0.06	10	0.20	122	9	0.01	10	360	15	0.07	<2	2	13
CC54131		<10	<1	0.05	10	0.49	276	4	0.01	27	270	18	0.02	<2	3	14
CC54132		10	<1	0.05	10	0.54	256	3	0.01	26	250	18	0.01	<2	4	10
CC54133		<10	<1	0.03	10	0.38	160	2	0.02	17	220	15	0.05	<2	3	11
CC54134		10	<1	0.04	10	0.55	361	2	0.01	25	280	19	0.03	<2	3	10
CC54135		<10	<1	0.06	10	0.43	234	5	0.01	42	470	25	0.03	<2	3	13
CC54136		<10	<1	0.05	20	0.44	234	2	0.01	34	240	15	0.02	<2	4	24
CC54137		<10	<1	0.05	10	0.21	206	4	0.01	45	810	11	0.05	<2	2	70
CC54138		<10	<1	0.03	10	0.18	85	3	0.01	37	240	11	0.03	<2	3	32
CC54139		<10	<1	0.05	10	0.33	172	6	0.01	21	450	15	0.04	<2	2	28
CC54140		10	1	0.07	10	0.32	202	5	0.01	15	1340	13	0.07	2	3	34
CC54141		<10	<1	0.04	20	0.03	10	7	<0.01	6	380	13	0.04	3	1	46
CC54142		<10	<1	0.06	10	0.31	306	8	0.01	24	580	17	0.07	5	3	46
CC54143		<10	<1	0.04	10	1.20	402	2	0.02	28	680	19	0.06	<2	3	23
CC54144		<10	<1	0.05	20	0.93	301	2	0.01	30	580	18	0.05	<2	3	18
CC54145		<10	1	0.05	10	0.87	883	2	0.02	28	350	26	0.04	<2	3	15
CC54146		<10	<1	0.06	10	0.75	883	2	0.01	27	310	26	0.04	2	4	12
CC54147		10	<1	0.05	20	0.79	623	2	0.01	33	180	23	0.02	2	6	11
CC54148		<10	<1	0.06	10	0.74	409	1	0.01	24	310	22	0.03	2	4	14
CC54149		<10	<1	0.06	10	0.70	483	2	0.01	27	250	24	0.03	2	4	13

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071609

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC44549		<20	0.02	<10	<10	16	80	2860
CC44550		<20	0.01	<10	<10	16	100	627
CC44551		<20	0.05	<10	<10	28	10	65
CC54081		<20	0.01	<10	<10	20	<10	1460
CC54082		<20	0.14	<10	<10	65	<10	216
CC54083		<20	0.01	<10	<10	15	<10	116
CC54084		<20	<0.01	<10	<10	1	<10	19
CC54085		<20	<0.01	<10	10	1	<10	156
CC54086		<20	0.08	30	<10	37	50	9330
CC54087		<20	0.02	<10	<10	11	<10	120
CC54088		<20	0.01	<10	<10	27	<10	900
CC54089		<20	<0.01	<10	<10	25	<10	515
CC54090		<20	<0.01	<10	<10	52	<10	1240
CC54091		<20	<0.01	<10	<10	56	<10	598
CC54124		<20	0.01	<10	<10	43	<10	95
CC54125		<20	0.01	<10	<10	47	<10	87
CC54126		<20	<0.01	<10	<10	58	<10	87
CC54127		<20	<0.01	<10	<10	24	<10	96
CC54128		<20	0.02	<10	<10	79	<10	73
CC54129		<20	0.03	<10	<10	72	<10	88
CC54130		<20	0.04	<10	<10	101	<10	40
CC54131		<20	0.05	<10	<10	79	<10	88
CC54132		<20	0.04	<10	<10	75	<10	84
CC54133		<20	0.04	<10	<10	66	<10	68
CC54134		<20	0.03	<10	<10	61	<10	73
CC54135		<20	0.03	<10	<10	74	<10	112
CC54136		<20	0.05	<10	<10	65	<10	107
CC54137		<20	0.02	<10	<10	37	<10	160
CC54138		<20	0.04	<10	<10	64	<10	91
CC54139		<20	0.06	<10	<10	71	<10	72
CC54140		<20	0.04	<10	<10	87	<10	62
CC54141		<20	0.02	<10	<10	32	<10	21
CC54142		<20	0.07	<10	<10	91	<10	61
CC54143		<20	0.02	<10	<10	51	<10	86
CC54144		<20	0.02	<10	<10	55	<10	65
CC54145		<20	0.03	<10	<10	60	<10	139
CC54146		<20	0.03	<10	<10	60	<10	93
CC54147		<20	0.03	<10	<10	66	<10	94
CC54148		<20	0.02	<10	<10	57	<10	86
CC54149		<20	0.02	<10	<10	60	<10	94

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071609

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC54150		0.24	0.002	0.3	1.90	12	<10	220	0.7	<2	0.73	0.5	9	31	14	3.15
CC54151		0.22	0.003	<0.2	1.90	15	<10	220	0.7	<2	1.06	0.9	10	31	19	3.03
CC54152		0.26	0.003	0.5	1.75	17	<10	250	0.8	<2	0.92	1.5	18	32	31	3.31

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Project: RAU

Finalized Date: 28-JUL-2009
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CERTIFICATE OF ANALYSIS VA09071609

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
CC54150		10	1	0.04	10	0.74	506	1	0.01	24	210	20	0.03	2	4	12
CC54151		<10	<1	0.06	20	0.77	401	1	0.01	31	280	30	0.03	<2	4	14
CC54152		<10	<1	0.07	20	0.48	861	2	0.01	59	230	29	0.03	<2	5	14

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Project: RAU

Finalized Date: 28-JUL-2009
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CERTIFICATE OF ANALYSIS VA09071609

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC54150		<20	0.03	<10	<10	61	<10	89
CC54151		<20	0.02	<10	<10	65	<10	116
CC54152		<20	0.02	<10	<10	66	<10	167

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Finalized Date: 29-JUL-2009
Account: RCM

CERTIFICATE VA09071608

Project: RAU

P.O. No.:

This report is for 12 Soil samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 29-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071608

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC44201		0.34	0.011	3.7	0.85	16	<10	140	1.0	<2	10.15	0.5	3	13	17	1.32
CC44247		0.12	0.002	<0.2	0.02	1490	<10	240	13.3	8	2.30	5.6	26	<1	<1	40.1
CC44248		0.26	0.009	0.5	0.99	64	<10	310	1.3	3	8.23	2.6	8	17	23	3.18
CC44249		0.48	0.005	0.4	1.17	41	<10	710	0.6	2	0.84	26.7	12	24	83	3.07
CC44474		0.32	0.004	<0.2	0.40	513	<10	500	7.1	3	17.0	5.4	114	8	11	12.95
CC44475		0.34	0.002	<0.2	0.05	1130	<10	490	12.8	6	10.00	3.8	168	<1	<1	26.1
CC44476		0.44	0.002	<0.2	0.10	315	<10	210	4.7	<2	>25.0	3.7	88	<1	1	8.75
CC44477		0.40	0.002	<0.2	0.07	814	<10	390	9.3	3	18.3	4.2	150	3	1	19.1
CC44478		0.28	0.002	<0.2	0.08	824	<10	360	9.8	3	17.3	5.2	133	<1	<1	19.7
CC44479		0.46	0.006	0.6	0.92	45	<10	300	1.0	<2	8.83	3.9	10	15	20	3.39
CC44480		0.34	0.002	<0.2	0.09	1165	<10	520	13.0	4	10.85	6.9	180	<1	<1	27.6
CC44484		0.34	0.006	<0.2	0.21	522	<10	320	7.5	2	17.9	4.3	128	2	3	17.2

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Project: RAU

Finalized Date: 29-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071608

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
CC44201		<10	<1	0.06	10	7.11	568	2	0.02	11	380	24	0.03	<2	2	62
CC44247		<10	<1	0.01	<10	0.21	3260	46	0.01	128	250	21	0.08	<2	<1	42
CC44248		<10	1	0.07	10	5.30	254	7	0.03	76	730	31	0.47	2	2	73
CC44249		<10	<1	0.06	10	0.58	425	4	0.04	65	1150	56	0.04	3	3	30
CC44474		<10	1	0.04	10	0.88	17500	18	0.02	871	370	16	0.04	<2	1	40
CC44475		10	<1	0.01	<10	0.11	27600	43	0.02	1515	180	16	0.02	<2	<1	51
CC44476		<10	<1	0.01	<10	0.13	11950	7	0.02	636	250	8	<0.01	2	<1	30
CC44477		<10	<1	0.01	<10	0.11	23200	23	0.02	916	180	16	0.05	<2	<1	35
CC44478		<10	<1	0.01	<10	0.10	20000	20	0.02	799	240	15	0.06	<2	<1	31
CC44479		<10	<1	0.06	10	5.92	463	7	0.02	70	620	34	0.14	<2	2	75
CC44480		<10	<1	0.01	<10	0.34	29300	54	0.03	1360	270	19	<0.01	3	<1	50
CC44484		<10	<1	0.01	<10	0.12	16100	11	0.03	846	460	12	<0.01	<2	<1	29

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Project: RAU

Finalized Date: 29-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071608

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC44201		<20	0.02	<10	<10	17	<10	606
CC44247		<20	<0.01	<10	20	2	50	3360
CC44248		<20	0.02	<10	<10	27	10	1540
CC44249		<20	0.02	<10	<10	54	<10	755
CC44474		<20	0.01	40	10	10	30	6110
CC44475		<20	<0.01	70	10	2	60	6600
CC44476		<20	<0.01	20	20	1	30	5350
CC44477		<20	<0.01	30	10	1	50	6570
CC44478		<20	<0.01	30	10	2	50	7020
CC44479		<20	0.02	<10	<10	29	10	1020
CC44480		<20	<0.01	50	<10	3	50	7980
CC44484		<20	0.01	30	10	3	40	7140

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Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE VA09071607

Project: RAU

P.O. No.:

This report is for 10 Rock samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

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

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071607

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247490		1.74	0.01	0.33	1.08	<5	40	171.5	3.95	10.90	<0.02	7.08	28.3	6	0.50	426
H247491		0.32	0.01	0.58	0.94	5.5	40	144.0	5.14	9.40	<0.02	5.47	19.2	5	0.47	526
H247492		0.02	<0.01	0.18	3.55	41.3	570	2.04	0.22	0.50	0.59	32.3	7.9	20	3.29	24.6
H247493		0.86	<0.01	0.05	7.01	<5	30	14.80	0.31	16.05	0.11	50.5	3.5	52	0.35	2.7
H247494		1.10	<0.01	0.02	0.05	148	130	2.25	0.01	32.1	1.82	1.37	46.7	<1	0.08	2.0
H247495		0.76	<0.01	0.02	0.09	282	170	4.52	0.03	28.3	4.15	2.75	82.2	<1	0.08	1.9
H248808		0.30	0.14	0.50	2.73	131.5	830	1.93	0.03	0.64	1.14	253	182.5	69	1.49	878
H248809		1.06	0.13	0.61	1.07	2620	240	0.36	17.25	0.42	3.15	31.7	11.2	60	0.91	27.9
H248810		0.84	0.01	0.66	2.92	118.0	480	1.86	1.10	0.17	16.40	53.6	43.1	39	1.14	25.5
H248811		1.26	0.05	14.85	0.45	2010	120	0.32	1170	0.52	2.63	5.83	14.2	14	0.51	149.0

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071607

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H247490		18.70	26.0	0.32	0.2	4.85	0.23	3.2	7.6	2.78	6170	2.15	0.21	25.0	7.2	70
H247491		23.0	25.9	0.40	0.2	3.34	0.20	2.3	6.8	2.14	5060	2.38	0.18	26.8	4.2	80
H247492		7.91	10.30	0.26	0.9	0.111	1.21	15.4	11.4	0.38	2600	2.44	0.21	4.4	26.0	210
H247493		8.62	35.1	0.27	1.3	1.505	0.06	26.1	13.5	1.08	20600	0.47	0.09	23.8	5.5	330
H247494		3.98	0.61	0.11	<0.1	0.008	0.01	0.9	0.4	0.17	5560	7.87	0.01	0.2	297	30
H247495		7.28	1.17	0.18	<0.1	0.016	0.01	1.9	0.6	0.17	9600	23.9	0.01	0.4	714	50
H248808		33.1	7.12	1.01	0.9	0.093	0.65	101.5	8.8	0.20	1090	6.88	0.02	2.3	390	9290
H248809		50.0	7.57	0.73	0.1	0.070	0.25	19.2	2.7	0.20	632	11.05	0.01	3.5	39.6	2280
H248810		36.5	12.75	0.65	0.3	0.109	0.52	23.2	14.4	0.14	4020	29.4	0.02	8.8	79.9	960
H248811		47.9	8.20	0.86	<0.1	0.069	0.07	3.4	2.0	1.05	500	12.75	0.02	0.7	29.7	80

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Project: RAU

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071607

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H247490		5.7	8.1	0.010	3.04	0.37	1.8	3	43.3	13.9	0.64	0.37	1.6	0.045	0.26	0.9
H247491		11.3	4.6	<0.002	1.22	1.42	1.3	5	36.3	13.4	0.72	0.05	1.1	0.043	<0.02	0.5
H247492		19.8	63.3	0.002	0.08	4.14	8.5	3	2.0	38.0	0.85	<0.05	3.8	0.118	0.58	1.6
H247493		1.0	2.2	<0.002	0.01	0.27	9.8	3	115.5	16.3	0.73	<0.05	6.7	0.298	0.02	6.9
H247494		1.9	0.6	<0.002	0.06	0.74	0.3	3	0.3	30.3	<0.05	<0.05	<0.2	<0.005	11.05	3.7
H247495		4.1	0.7	0.002	0.06	1.48	0.4	2	0.9	27.9	<0.05	<0.05	<0.2	<0.005	37.9	3.9
H248808		13.7	17.5	0.002	0.11	2.20	12.1	6	0.6	103.5	0.14	<0.05	29.7	0.068	0.62	21.7
H248809		52.5	10.6	0.002	0.09	1.43	2.9	3	0.7	14.2	0.19	0.17	3.0	0.083	0.35	4.8
H248810		60.6	23.6	<0.002	0.07	2.62	6.7	3	0.9	8.0	0.46	<0.05	5.5	0.139	1.40	9.4
H248811		875	8.3	<0.002	0.19	51.3	<0.1	10	6.4	5.8	<0.05	2.42	0.8	0.022	0.12	3.7

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Project: RAU

Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071607

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H247490		10	920	28.6	190	14.7
H247491		9	1060	25.7	149	13.6
H247492		38	9.8	22.1	72	25.3
H247493		43	51.0	27.5	97	44.2
H247494		<1	7.9	13.7	2760	0.5
H247495		<1	17.1	27.9	5210	0.9
H248808		41	12.2	56.8	346	59.6
H248809		36	78.8	9.4	1880	12.1
H248810		114	19.2	16.7	4450	19.5
H248811		12	15.5	3.3	1780	4.3

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071607

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

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Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE VA09071602

Project: RAU

P.O. No.:

This report is for 54 Soil samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071602

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC54153		0.16	0.003	0.2	4.09	10	<10	350	<0.5	<2	3.39	0.7	34	229	65	6.10
CC54154		0.18	0.004	0.2	3.33	13	<10	350	<0.5	<2	5.42	1.4	31	184	59	5.67
CC54155		0.14	0.013	1.2	0.50	46	<10	450	<0.5	4	10.85	9.2	7	17	20	3.19
CC54156		0.16	0.006	<0.2	0.44	32	<10	200	<0.5	<2	14.8	5.6	3	12	10	1.67
CC54157		0.12	0.004	0.4	0.72	14	<10	160	0.6	<2	11.45	0.9	5	14	13	1.51
CC54158		0.14	0.005	0.5	0.15	20	<10	180	<0.5	<2	17.9	3.7	2	7	9	1.08
CC54159		0.08	0.003	0.5	0.53	9	<10	770	<0.5	<2	13.00	4.6	5	17	13	1.52
CC54160		0.14	0.002	<0.2	0.44	9	<10	120	<0.5	<2	19.9	<0.5	8	11	9	2.62
CC54161		0.14	0.001	<0.2	0.49	11	<10	100	<0.5	<2	14.30	<0.5	14	49	38	3.26
CC54162		0.16	0.003	2.6	0.40	29	<10	1820	<0.5	<2	16.4	12.6	10	11	19	3.30
CC54163		0.12	0.003	0.6	0.71	31	<10	470	0.5	<2	9.36	2.5	15	19	20	3.94
CC54164		0.12	0.004	0.9	0.71	17	<10	260	<0.5	<2	7.00	2.6	9	19	16	2.59
CC54165		0.10	0.003	0.4	1.22	22	<10	260	0.6	<2	3.47	1.3	13	33	21	3.71
CC54166		0.16	0.003	<0.2	0.60	14	<10	140	<0.5	<2	8.69	0.8	9	15	16	2.34
CC54167		0.10	0.003	<0.2	0.83	21	<10	330	0.5	<2	8.35	0.7	20	25	19	5.22
CC54168		0.14	0.003	0.6	0.42	16	<10	670	<0.5	<2	18.1	1.5	11	10	14	2.99
CC54169		0.12	0.003	0.5	0.50	11	<10	140	<0.5	<2	17.0	2.4	8	12	12	2.87
CC54170		0.12	0.002	0.2	0.48	9	<10	90	<0.5	<2	21.3	<0.5	8	9	10	2.76
CC54171		0.18	0.004	0.2	1.06	15	<10	160	0.6	<2	8.48	2.6	7	21	17	2.23
CC54172		0.14	0.004	1.1	0.70	22	<10	210	<0.5	<2	10.90	6.1	5	14	12	1.85
CC54173		0.18	0.003	0.3	0.55	13	<10	100	<0.5	<2	12.60	1.8	4	14	10	1.37
CC54174		0.10	0.003	<0.2	0.93	14	<10	390	<0.5	<2	3.41	<0.5	83	66	188	10.70
CC54175		0.12	0.005	<0.2	1.34	17	<10	310	0.7	<2	3.85	1.4	12	29	23	3.01
CC54176		0.14	0.006	0.2	1.41	22	<10	400	0.7	<2	3.23	3.0	11	26	20	3.56
CC54177		0.14	0.005	0.3	0.56	12	<10	160	<0.5	<2	10.75	1.5	5	13	12	1.93
CC54178		0.12	0.003	<0.2	1.08	8	<10	370	0.7	<2	1.57	0.9	10	21	11	4.34
CC54179		0.10	0.004	0.3	0.91	12	<10	290	0.5	<2	2.70	1.8	8	30	14	3.23
CC54251		0.12	0.003	<0.2	0.98	10	<10	230	0.6	<2	2.20	0.5	9	24	17	3.05
CC54252		0.10	0.003	0.2	0.68	10	<10	190	<0.5	<2	1.40	0.7	8	22	10	3.70
CC54253		0.10	0.002	0.3	0.75	11	<10	230	0.5	<2	7.02	3.3	8	18	14	2.75
CC54254		0.12	0.004	0.5	1.05	18	<10	180	0.6	<2	4.12	1.1	7	28	17	2.93
CC54255		0.12	0.004	0.5	1.17	19	<10	130	0.6	<2	3.23	0.7	7	27	17	3.11
CC54256		0.14	0.004	0.5	1.37	25	<10	170	0.6	2	2.35	0.5	9	33	24	3.24
CC54257		0.12	0.002	<0.2	0.47	11	<10	60	<0.5	<2	18.5	0.5	11	12	13	2.82
CC54258		0.22	0.002	2.5	0.63	26	<10	290	<0.5	<2	7.64	2.6	16	17	22	3.68
CC54259		0.14	0.072	3.6	0.13	99	<10	810	<0.5	19	17.1	3.4	3	7	26	2.06
CC54260		0.16	0.007	0.6	1.26	23	<10	200	0.5	<2	2.22	0.7	9	28	21	3.08
CC54261		0.14	0.005	0.5	1.44	22	<10	160	0.7	<2	1.06	0.8	10	33	19	3.91
CC54262		0.12	0.004	<0.2	0.95	13	<10	270	0.5	<2	5.62	0.9	8	23	21	2.54
CC54263		0.14	0.005	<0.2	1.03	9	<10	250	0.6	<2	2.00	0.5	9	22	21	2.84

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Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071602

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC54153		10	<1	0.37	10	6.31	898	<1	0.01	164	880	56	0.02	<2	14	30
CC54154		<10	<1	0.26	10	6.47	1735	<1	0.02	152	790	166	0.04	<2	11	51
CC54155		<10	1	0.05	10	7.29	5530	3	0.03	35	640	1175	0.07	4	2	73
CC54156		<10	<1	0.02	10	9.29	2530	3	0.03	24	480	294	0.06	<2	1	75
CC54157		<10	<1	0.04	10	7.65	883	3	0.02	18	840	73	0.08	<2	1	58
CC54158		<10	<1	0.01	10	11.10	2590	1	0.03	16	350	335	0.05	2	1	93
CC54159		<10	<1	0.04	10	8.34	1790	2	0.03	23	600	317	0.08	2	1	97
CC54160		<10	<1	0.08	20	1.02	374	<1	0.02	24	690	32	<0.01	<2	3	856
CC54161		<10	<1	0.14	20	1.37	352	<1	0.02	39	900	21	0.13	<2	3	546
CC54162		<10	<1	0.06	20	2.61	1405	1	0.03	34	930	1195	0.12	11	3	351
CC54163		<10	<1	0.12	20	2.86	1420	1	0.02	52	1280	389	0.12	7	3	231
CC54164		<10	<1	0.05	20	4.07	589	1	0.02	27	880	227	0.08	3	3	58
CC54165		<10	<1	0.07	20	1.45	909	1	0.02	40	900	98	0.07	3	3	63
CC54166		<10	<1	0.05	10	5.69	584	1	0.02	24	810	47	0.05	2	2	58
CC54167		<10	<1	0.16	30	1.82	883	1	0.02	59	1410	29	0.10	<2	4	228
CC54168		<10	<1	0.09	20	0.84	617	<1	0.02	33	840	157	<0.01	<2	3	613
CC54169		<10	<1	0.10	20	1.42	415	<1	0.02	26	820	227	<0.01	<2	2	598
CC54170		<10	<1	0.08	20	0.84	325	<1	0.01	26	770	27	<0.01	<2	3	938
CC54171		<10	<1	0.05	20	5.22	956	1	0.02	24	620	207	0.05	<2	3	73
CC54172		<10	<1	0.03	10	7.12	2480	1	0.03	20	550	776	0.05	3	2	72
CC54173		<10	<1	0.03	10	8.48	924	4	0.02	21	490	162	0.06	<2	1	66
CC54174		<10	<1	0.30	10	1.86	1205	1	0.02	236	990	36	0.91	<2	6	62
CC54175		<10	<1	0.06	20	2.10	986	1	0.02	38	960	105	0.11	<2	2	31
CC54176		<10	<1	0.08	20	2.03	1245	1	0.02	33	760	242	0.06	3	3	27
CC54177		<10	1	0.06	10	6.84	660	1	0.02	20	630	123	0.06	<2	2	74
CC54178		<10	<1	0.15	30	0.51	456	<1	0.01	22	1060	117	0.16	<2	2	31
CC54179		<10	<1	0.08	20	1.37	536	1	0.01	35	720	141	0.08	<2	3	27
CC54251		<10	<1	0.11	20	0.89	487	1	0.01	27	1000	55	0.12	<2	3	33
CC54252		<10	<1	0.21	30	0.78	244	1	0.01	23	770	76	0.31	<2	2	32
CC54253		<10	<1	0.06	20	4.25	860	1	0.02	22	1030	168	0.11	2	2	48
CC54254		<10	<1	0.06	20	2.20	488	1	0.02	27	1110	70	0.09	2	2	29
CC54255		<10	<1	0.06	20	1.97	464	1	0.01	28	830	65	0.05	<2	3	25
CC54256		<10	<1	0.06	20	1.56	531	1	0.01	36	710	62	0.04	3	4	22
CC54257		<10	<1	0.07	20	1.92	298	<1	0.02	32	890	31	<0.01	<2	3	532
CC54258		<10	1	0.16	20	1.25	780	<1	0.02	46	1650	575	0.07	5	4	177
CC54259		<10	<1	0.02	10	10.80	1450	1	0.03	18	710	688	<0.01	11	1	81
CC54260		<10	<1	0.05	10	1.22	488	1	0.01	31	1030	92	0.06	2	3	27
CC54261		<10	<1	0.05	20	0.69	460	1	<0.01	35	990	91	0.05	2	4	16
CC54262		<10	<1	0.06	10	3.40	473	1	0.02	25	990	66	0.05	<2	2	41
CC54263		<10	<1	0.09	20	0.74	360	<1	0.01	26	1360	44	0.09	<2	2	42

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071602

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC54153		<20	0.15	<10	<10	111	<10	332
CC54154		<20	0.10	<10	<10	91	<10	508
CC54155		<20	0.02	<10	<10	44	10	2850
CC54156		<20	0.01	<10	<10	72	10	1370
CC54157		<20	0.01	<10	<10	33	<10	292
CC54158		<20	<0.01	<10	10	18	<10	910
CC54159		<20	0.01	<10	<10	19	<10	1480
CC54160		<20	0.01	<10	10	9	<10	205
CC54161		<20	0.02	<10	<10	18	<10	117
CC54162		<20	0.01	<10	<10	10	10	4200
CC54163		<20	0.02	<10	<10	18	<10	1240
CC54164		<20	0.02	<10	<10	27	<10	757
CC54165		<20	0.02	<10	<10	36	<10	389
CC54166		<20	0.02	<10	<10	23	<10	332
CC54167		<20	0.01	<10	<10	16	<10	301
CC54168		<20	0.01	<10	<10	8	<10	809
CC54169		<20	0.01	<10	<10	10	<10	959
CC54170		<20	0.01	<10	10	8	<10	210
CC54171		<20	0.02	<10	<10	39	<10	813
CC54172		<20	0.02	<10	<10	30	<10	1180
CC54173		<20	0.01	<10	10	44	<10	592
CC54174		<20	0.06	<10	<10	33	<10	175
CC54175		<20	0.02	<10	<10	48	<10	514
CC54176		<20	0.03	<10	<10	43	<10	1210
CC54177		<20	0.01	<10	<10	20	<10	569
CC54178		<20	0.03	<10	<10	24	<10	436
CC54179		<20	0.02	<10	<10	25	<10	567
CC54251		<20	0.03	<10	<10	27	<10	154
CC54252		<20	0.03	<10	<10	21	<10	290
CC54253		<20	0.01	<10	<10	27	<10	763
CC54254		<20	0.02	<10	<10	39	<10	332
CC54255		<20	0.02	<10	<10	37	<10	284
CC54256		<20	0.02	<10	<10	44	<10	203
CC54257		<20	0.01	<10	<10	9	<10	160
CC54258		<20	0.01	<10	<10	13	<10	1980
CC54259		<20	<0.01	<10	10	14	10	1050
CC54260		<20	0.02	<10	<10	42	<10	237
CC54261		<20	0.02	<10	<10	46	<10	303
CC54262		<20	0.02	<10	<10	29	<10	299
CC54263		<20	0.02	<10	<10	28	<10	188

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Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071602

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC54264		0.12	0.003	0.2	1.29	17	<10	230	0.7	<2	4.31	2.7	8	31	16	3.16
CC54265		0.16	0.003	0.5	1.47	19	<10	190	0.9	<2	3.20	3.3	9	26	16	3.40
CC54266		0.12	0.003	1.8	0.82	17	<10	420	0.5	<2	10.65	4.2	7	22	13	2.17
CC54267		0.08	0.005	0.6	0.76	21	<10	190	<0.5	<2	6.85	2.0	11	23	22	3.03
CC54268		0.10	0.004	0.7	0.85	17	<10	250	<0.5	<2	5.46	2.1	12	24	27	3.17
CC54269		0.16	0.004	0.5	1.12	12	<10	270	0.6	<2	1.94	0.6	11	25	24	3.10
CC54270		0.20	0.006	0.3	0.88	12	<10	180	<0.5	<2	7.41	0.8	15	41	26	4.09
CC54271		0.16	0.003	0.3	1.40	8	<10	200	0.5	<2	1.68	<0.5	28	83	39	4.67
CC54272		0.26	0.003	<0.2	1.15	4	<10	200	<0.5	<2	2.97	<0.5	27	87	39	5.72
CC54273		0.14	0.003	1.7	0.64	9	<10	170	0.6	<2	2.45	<0.5	9	22	25	2.80
CC54274		0.24	0.003	<0.2	1.19	8	<10	230	<0.5	<2	8.99	0.7	20	78	30	4.46
CC54275		0.18	0.004	0.5	0.80	8	<10	150	<0.5	<2	11.80	<0.5	13	34	24	4.42
CC54276		0.18	0.004	0.4	0.32	24	<10	110	<0.5	<2	13.50	1.3	7	17	14	2.43
CC54277		0.20	0.003	<0.2	0.20	12	<10	120	<0.5	<2	11.30	0.9	7	9	11	3.06

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Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071602

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC54264		<10	1	0.05	20	2.35	1685	1	0.02	31	1060	100	0.09	<2	2	30
CC54265		<10	<1	0.06	20	1.75	1295	2	0.01	25	990	137	0.09	3	2	24
CC54266		<10	<1	0.03	20	7.05	2460	1	0.02	29	880	246	0.06	<2	2	63
CC54267		<10	<1	0.06	10	4.15	1180	1	0.02	43	1050	146	0.07	<2	3	53
CC54268		<10	1	0.11	20	2.94	753	1	0.01	40	1390	111	0.08	2	3	47
CC54269		<10	<1	0.07	20	0.92	646	1	0.01	30	1180	61	0.08	2	2	31
CC54270		<10	<1	0.16	20	2.81	559	<1	0.02	64	1300	95	0.11	<2	3	121
CC54271		<10	<1	0.16	20	0.94	602	1	0.01	138	1560	39	0.10	<2	4	33
CC54272		<10	<1	0.33	20	1.16	689	<1	0.01	135	1710	35	0.21	<2	3	55
CC54273		<10	<1	0.14	20	0.23	367	<1	0.01	29	1500	105	0.10	<2	1	34
CC54274		<10	<1	0.28	10	2.90	703	<1	0.02	101	1210	69	0.29	<2	4	90
CC54275		<10	<1	0.15	10	4.60	479	<1	0.02	52	1800	36	0.24	<2	3	96
CC54276		<10	<1	0.08	10	7.07	428	<1	0.02	28	780	113	0.10	<2	2	144
CC54277		<10	<1	0.05	10	7.36	310	<1	0.01	21	940	73	0.15	<2	2	92

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Project: RAU

Finalized Date: 31-JUL-2009
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CERTIFICATE OF ANALYSIS VA09071602

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC54264		<20	0.02	<10	<10	41	<10	612
CC54265		<20	0.02	<10	<10	51	<10	541
CC54266		<20	0.02	<10	<10	39	<10	913
CC54267		<20	0.01	<10	<10	25	<10	697
CC54268		<20	0.03	<10	<10	26	<10	565
CC54269		<20	0.02	<10	<10	32	<10	247
CC54270		<20	0.04	<10	<10	22	<10	326
CC54271		<20	0.09	<10	<10	33	<10	219
CC54272		<20	0.09	<10	<10	32	<10	171
CC54273		<20	0.03	<10	<10	13	<10	226
CC54274		<20	0.07	<10	<10	34	<10	313
CC54275		<20	0.03	<10	<10	20	<10	201
CC54276		<20	0.02	<10	<10	13	<10	364
CC54277		<20	0.01	<10	<10	12	<10	237

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Finalized Date: 5-AUG-2009
Account: RCM

CERTIFICATE VA09071601

Project: RAU

P.O. No.:

This report is for 13 Rock samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test

ANALYTICAL PROCEDURES

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

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 5-AUG-2009
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CERTIFICATE OF ANALYSIS VA09071601

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247489		0.30	0.01	0.70	0.41	2520	210	0.08	907	0.20	0.35	7.11	2.5	38	0.53	41.1
H247496		0.62	0.07	57.8	1.39	4690	250	1.50	514	0.27	10.15	13.80	45.3	15	0.64	1185
H247497		1.52	<0.01	1.07	2.54	14.9	200	1.40	1550	0.47	<0.02	19.30	171.0	22	0.50	1235
H247498		1.02	<0.01	1.50	0.94	406	70	0.41	111.0	0.50	0.16	103.5	24.2	11	5.28	2010
H247499		0.50	0.03	6.47	1.02	1050	460	0.32	479	0.12	0.80	1.15	28.5	4	0.49	56.6
H247500		0.48	<0.01	0.78	1.96	898	230	0.78	1060	0.28	0.11	5.51	20.3	18	20.5	23.2
H248801		1.04	0.06	10.40	0.69	218	5560	0.33	15.30	6.03	233	8.75	8.4	11	0.91	72.7
H248802		0.86	0.24	0.83	0.19	681	170	0.50	73.4	0.80	10.45	7.17	23.9	<1	0.11	86.9
H248803		1.18	0.20	2.32	0.11	2100	810	0.10	12.75	2.55	2.98	25.5	1.1	2	0.15	23.6
H248804		1.24	0.01	0.06	0.45	<5	20	23.5	7.28	12.05	0.13	15.05	4.3	14	0.35	48.1
H248805		1.30	0.01	0.28	2.30	4.5	950	8.70	6.98	9.65	0.11	63.2	3.6	34	6.58	339
H248806		1.26	0.32	35.6	0.27	4960	240	0.14	463	0.21	7.79	3.95	7.3	21	0.35	27.2
H248807		0.58	0.03	0.78	1.26	2560	100	1.15	601	0.55	2.35	130.0	8.6	7	0.87	29.6

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 5-AUG-2009
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CERTIFICATE OF ANALYSIS VA09071601

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H247489		46.3	12.20	0.77	0.3	0.048	0.13	3.6	2.7	0.53	158	3.45	0.03	0.7	15.5	140
H247496		47.4	8.23	0.74	0.5	17.00	0.59	12.2	6.5	0.24	2110	6.85	0.02	1.0	74.1	390
H247497		36.2	10.15	0.46	0.6	<0.005	0.17	8.3	3.7	0.87	319	2.20	0.18	6.3	156.0	220
H247498		46.5	5.46	1.00	0.4	0.124	0.42	64.5	9.0	1.46	385	1.62	0.02	1.1	12.6	190
H247499		47.9	4.19	0.65	0.3	<0.005	0.04	0.7	0.9	0.17	53	24.2	0.01	1.1	60.6	60
H247500		29.5	10.90	0.53	0.5	0.014	1.17	2.8	54.5	3.20	89	6.52	0.01	2.2	21.8	140
H248801		37.2	7.83	0.68	0.3	51.3	0.30	6.8	1.3	0.31	36500	16.85	0.04	2.2	37.5	210
H248802		>50	1.46	0.98	0.1	0.063	0.03	4.5	0.6	0.48	601	16.35	0.01	0.5	71.8	1940
H248803		>50	2.16	0.75	<0.1	45.8	0.04	23.7	0.4	0.15	15850	7.60	<0.01	0.5	20.5	30
H248804		6.06	7.85	0.08	0.2	0.836	0.09	14.9	6.9	8.25	3510	1.47	0.12	1.0	24.8	660
H248805		6.69	15.40	0.17	0.7	0.317	1.02	66.8	27.1	5.99	2150	63.5	0.40	5.1	101.5	960
H248806		>50	0.97	0.64	<0.1	0.212	0.09	3.1	0.9	0.18	119	8.09	0.01	0.8	25.1	880
H248807		39.7	6.57	0.77	0.4	0.065	0.24	83.8	4.0	0.56	352	4.74	0.06	1.1	15.6	140

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CERTIFICATE OF ANALYSIS VA09071601

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H247489		37.4	14.0	<0.002	0.23	22.8	3.0	12	1.1	11.2	0.06	0.89	0.9	0.070	0.66	2.4
H247496		1160	32.6	<0.002	0.09	76.9	5.4	13	287	9.1	0.06	2.40	1.8	0.040	0.02	5.2
H247497		20.6	13.9	<0.002	0.07	10.20	12.4	12	12.7	44.8	0.35	3.50	6.4	0.147	0.38	3.5
H247498		6.6	87.0	0.005	0.14	1.18	3.4	3	6.8	8.5	0.07	1.31	3.9	0.044	1.03	3.8
H247499		91.5	9.8	<0.002	>10.0	42.7	1.0	27	1.9	6.8	0.05	1.51	2.1	0.038	0.49	7.5
H247500		53.1	343	<0.002	1.39	16.15	3.4	13	2.8	8.2	0.14	1.67	4.3	0.109	3.07	3.3
H248801		3860	35.2	<0.002	0.25	26.8	1.7	4	34.9	62.9	0.15	0.05	0.5	0.072	12.00	3.8
H248802		654	2.4	<0.002	0.02	38.9	2.7	4	0.6	4.5	<0.05	0.17	<0.2	0.005	0.21	1.7
H248803		238	2.8	<0.002	0.03	11.20	0.5	2	17.0	9.0	<0.05	0.07	0.4	<0.005	0.36	3.8
H248804		4.8	6.4	0.004	0.02	0.26	1.5	2	7.6	11.3	0.12	0.18	1.4	0.022	0.04	6.3
H248805		9.9	198.0	0.061	0.10	0.27	3.9	14	4.0	39.4	0.26	0.37	4.3	0.099	0.96	16.2
H248806		397	4.2	<0.002	0.05	67.3	0.9	5	1.6	4.2	0.07	1.11	0.2	0.015	0.16	4.0
H248807		36.7	17.7	<0.002	1.76	9.53	0.8	2	3.5	23.7	0.08	4.90	3.1	0.046	0.27	4.9

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 5-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071601

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001
H247489		23	23.5	5.2	38	8.8	
H247496		34	9.9	15.8	3550	18.3	
H247497		29	298	18.1	21	19.4	
H247498		14	392	11.0	20	13.0	
H247499		17	9.4	2.2	6790	12.7	
H247500		24	54.7	2.4	20	17.2	
H248801		45	4.1	5.9	>10000	14.0	3.65
H248802		115	3.2	8.7	4630	3.8	
H248803		17	18.8	5.6	3890	1.5	
H248804		99	9.5	14.4	196	7.4	
H248805		737	38.9	28.4	135	29.0	
H248806		38	6.1	3.6	1600	3.0	
H248807		19	41.3	6.8	435	14.8	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 5-AUG-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09071601

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

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Finalized Date: 15-JUL-2009
Account: RCM

CERTIFICATE VA09070026

Project: RAU

P.O. No.: BATCH 3

This report is for 19 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 13-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
As-OG46	Ore Grade As - Aqua Regia	VARIABLE
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 15-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09070026

Sample Description	Method / Analyte / Units / LOR	As-OG46 As % 0.01
H246880		1.75
H246881		2.47
H246882		3.57
H246883		3.40
H246884		4.65
H246885		3.17
H246886		2.87
H246887		2.74
H246888		3.24
H246889		3.16
H246890		3.33
H246891		3.38
H246892		2.46
H246893		2.83
H246895		1.71
H246896		2.52
H246897		2.44
H246904		2.62
H246911		1.52

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Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE VA09068946

Project: RAU

P.O. No.: Batch 6

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068946

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H246984		5.16	<0.01	0.09	0.99	59	190	0.36	0.49	33.8	0.66	14.55	4.2	24	1.06	6.0
H246985		3.86	<0.01	0.64	2.05	141	480	0.84	2.22	28.0	1.54	27.3	11.5	44	2.94	20.7
H246986		5.94	<0.01	0.09	0.80	49	300	0.29	0.33	34.6	1.02	13.95	3.5	22	0.55	3.9
H246987		4.18	0.01	0.27	0.91	114	480	0.38	0.32	33.2	2.48	16.95	6.1	22	0.89	7.2
H246988		4.10	0.01	0.45	4.22	446	1280	1.47	3.48	19.30	3.16	39.1	20.9	83	6.30	40.8
H246989		4.20	<0.01	0.01	0.09	8	20	0.10	0.11	19.60	0.08	1.71	1.2	1	0.21	2.3
H246990		2.06	0.01	0.50	4.38	512	1320	1.43	3.04	18.70	3.24	42.0	22.0	90	6.52	41.1
H246991		9.54	0.03	0.31	0.74	163	410	0.36	0.15	25.9	1.19	12.20	6.2	19	0.84	6.0
H246992		7.18	0.03	0.50	1.03	256	580	0.44	0.28	28.7	1.79	13.65	4.6	28	0.94	7.3
H246993		6.12	0.04	0.52	0.77	234	340	0.32	0.71	28.5	1.81	17.25	4.4	20	1.29	7.7
H246994		5.40	0.02	0.67	1.61	412	710	0.64	1.20	30.2	3.73	24.0	8.0	37	2.44	16.3
H246995		6.86	0.16	0.54	1.22	340	520	0.55	8.65	28.9	1.54	15.60	9.2	28	1.77	7.0
H246996		1.96	0.07	1.13	1.03	611	590	0.41	7.92	24.4	3.22	17.80	7.5	27	1.39	13.2
H246997		6.42	0.03	1.06	4.87	1150	1320	1.52	22.2	10.75	5.68	46.3	25.3	113	5.99	63.4
H246998		6.74	0.05	0.94	3.36	933	830	1.17	27.0	22.7	3.48	33.9	12.8	85	3.41	36.4
H246999		6.28	0.02	0.19	1.41	182	3210	0.65	2.22	32.4	0.70	22.4	7.9	39	0.74	8.9
H247000		4.58	0.07	3.71	4.88	2450	>10000	2.45	66.6	15.25	5.92	48.9	17.7	114	5.75	70.9
H247001		5.52	1.42	4.87	0.74	>10000	3470	0.45	396	0.95	5.27	22.4	8.4	24	1.74	77.2
H247002		8.28	3.22	0.81	0.14	>10000	8750	0.13	321	1.30	2.48	9.98	2.6	9	0.13	229
H247003		1.40	89.2	6.03	0.17	>10000	3090	0.75	5260	1.79	0.02	8.15	0.8	2	0.28	3.5
H247004		0.28	1.64	1.75	0.10	>10000	50	0.06	361	12.05	0.83	54.6	1.7	5	0.68	17.9
H247005		2.12	48.0	4.01	0.19	>10000	8960	<0.05	>10000	0.98	1.43	12.00	1.0	1	<0.05	8.5
H247006		8.26	10.30	5.56	1.60	>10000	3230	<0.05	957	0.59	2.80	24.2	3.4	20	1.69	11.9
H247007		5.46	2.10	2.91	0.40	>10000	420	0.23	494	1.94	4.68	16.20	2.3	14	0.34	10.5
H247008		4.14	1.03	6.07	0.87	>10000	740	0.47	433	0.46	5.32	22.4	2.6	24	0.89	20.0
H247009		3.24	0.35	16.20	0.56	>10000	1720	0.58	68.9	0.39	2.50	47.1	9.4	7	0.92	51.6
H247010		9.40	0.21	4.50	0.48	>10000	650	1.26	563	0.30	6.00	17.60	4.8	15	0.30	90.4
H247011		9.76	0.62	2.70	0.29	>10000	480	2.28	406	0.29	6.28	20.8	6.8	8	0.11	22.5
H247012		7.76	0.46	3.24	0.51	>10000	1240	1.11	262	0.53	7.71	39.2	13.6	7	0.17	38.6
H247013		5.80	0.04	1.83	1.93	>10000	>10000	1.73	647	0.38	15.25	59.2	12.7	17	2.19	25.7
H247014		0.28	5.63	0.21	0.12	>10000	50	<0.05	497	8.82	0.03	36.4	1.8	12	0.72	42.1
H247015		3.56	0.06	0.68	0.91	>10000	610	0.70	10.55	1.44	9.74	26.0	8.9	10	1.10	28.5
H247016		7.16	0.06	1.18	1.95	>10000	360	1.61	6.32	2.20	12.35	38.7	9.8	4	0.29	24.8
H247017		3.76	0.03	0.02	0.06	37	20	0.05	0.47	18.40	0.06	1.42	1.0	<1	0.15	9.4
H247018		5.40	0.04	0.21	0.18	270	70	0.12	0.97	30.3	0.51	6.56	1.8	2	0.11	2.6
H247019		4.26	0.01	0.06	0.31	96	230	0.27	0.89	18.65	1.61	5.72	2.2	3	0.48	2.1

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Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068946

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H246984		1.07	2.44	0.06	0.5	0.016	0.37	9.0	4.7	0.29	525	0.13	<0.01	4.4	16.3	240
H246985		2.30	5.52	0.07	0.9	0.042	0.73	16.1	13.8	0.52	750	0.48	<0.01	8.1	44.4	370
H246986		0.71	2.16	<0.05	0.5	0.015	0.36	8.5	3.3	0.27	422	0.16	<0.01	4.5	12.3	230
H246987		1.13	2.46	0.06	0.5	0.020	0.39	11.6	4.6	0.30	468	0.28	<0.01	4.3	22.8	230
H246988		3.89	10.85	0.11	1.5	0.075	1.55	21.3	24.1	1.02	1180	0.89	0.02	13.3	77.5	590
H246989		0.42	0.30	<0.05	<0.1	<0.005	0.03	0.8	1.4	12.75	191	0.10	<0.01	0.3	3.0	280
H246990		3.94	11.30	0.11	1.7	0.070	1.60	23.5	25.1	1.10	1210	0.89	0.02	14.1	78.0	600
H246991		0.77	1.93	<0.05	0.5	0.024	0.34	8.2	4.0	5.94	505	0.23	<0.01	4.3	15.1	200
H246992		1.11	2.83	<0.05	0.6	0.030	0.43	8.6	6.5	3.89	588	0.17	<0.01	5.3	15.2	280
H246993		1.10	2.06	<0.05	0.4	0.031	0.31	10.6	4.6	1.69	589	0.21	<0.01	3.3	17.2	190
H246994		1.92	4.47	0.07	0.7	0.034	0.66	15.7	8.7	0.72	1340	0.38	<0.01	7.5	25.9	350
H246995		1.45	3.99	<0.05	0.8	0.020	0.50	10.6	6.4	2.98	814	0.27	<0.01	6.4	22.5	280
H246996		2.85	3.52	0.06	0.5	0.053	0.39	11.6	5.6	2.44	1460	0.40	<0.01	4.0	22.3	240
H246997		7.14	13.75	0.14	1.6	0.133	1.70	26.2	30.3	1.11	2290	1.78	0.02	12.5	102.5	720
H246998		5.07	9.19	0.11	1.1	0.106	1.23	20.7	19.2	0.67	1880	0.91	<0.01	10.0	59.7	650
H246999		1.39	3.89	0.05	1.0	0.031	0.61	14.5	5.1	0.24	649	0.21	0.04	9.1	23.4	430
H247000		10.60	13.30	0.22	1.8	0.147	1.71	30.4	26.5	0.92	1760	1.58	0.21	13.4	89.4	950
H247001		>50	2.96	0.87	0.4	0.195	0.24	11.5	3.6	0.34	2530	5.10	0.04	1.3	27.8	490
H247002		49.0	1.16	0.73	0.1	0.125	0.03	4.3	0.6	0.13	489	2.72	0.14	0.4	9.2	230
H247003		22.2	1.59	<0.05	1.1	0.306	0.17	5.3	11.7	0.08	47	2.28	0.04	1.9	4.8	880
H247004		16.40	1.01	0.25	0.1	0.104	0.06	35.4	2.1	6.87	2180	5.75	<0.01	0.4	7.9	120
H247005		32.9	2.01	<0.05	1.3	0.517	0.06	7.2	7.3	0.05	97	13.65	0.14	0.8	2.3	1360
H247006		42.2	9.74	<0.05	1.4	0.452	0.74	14.3	8.7	0.23	865	3.87	0.05	2.8	13.7	690
H247007		>50	3.12	0.89	0.3	0.234	0.16	8.3	1.3	0.26	898	4.95	<0.01	0.6	9.1	380
H247008		49.4	6.82	0.94	0.6	0.222	0.38	12.5	1.9	0.19	1160	4.00	<0.01	1.3	15.7	480
H247009		>50	3.43	0.80	0.2	0.589	0.23	25.6	1.7	0.12	6070	1.64	0.01	0.7	22.2	960
H247010		>50	4.81	0.93	0.4	0.538	0.12	6.7	1.5	0.22	1880	3.11	<0.01	1.6	38.9	750
H247011		>50	3.46	1.28	0.1	0.336	0.03	8.4	1.1	0.24	2470	3.33	<0.01	0.2	50.2	600
H247012		>50	3.91	0.90	0.3	0.339	0.08	18.4	0.7	0.14	5090	2.82	<0.01	0.5	51.7	750
H247013		43.6	7.20	0.67	0.7	0.262	0.52	31.8	5.5	0.25	4330	2.01	0.29	2.2	65.3	750
H247014		23.5	1.49	0.29	0.1	0.082	0.07	22.4	2.2	4.74	1460	10.35	<0.01	1.1	13.7	80
H247015		49.2	4.62	0.62	0.2	0.173	0.18	14.8	2.0	0.14	3620	1.10	<0.01	0.7	35.6	380
H247016		45.9	2.03	0.57	0.2	0.098	0.09	18.9	2.2	0.23	4670	1.30	<0.01	0.5	34.5	480
H247017		0.47	0.33	0.13	<0.1	<0.005	0.02	0.7	1.1	12.55	190	0.38	<0.01	0.2	2.4	210
H247018		1.64	0.55	0.06	0.1	<0.005	0.07	4.9	1.0	3.85	488	0.15	<0.01	0.9	5.4	100
H247019		1.73	0.89	<0.05	0.1	0.008	0.12	3.2	2.7	12.10	578	1.87	<0.01	0.6	8.5	30

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Project: RAU

CERTIFICATE OF ANALYSIS VA09068946

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H246984		20.8	16.5	<0.002	0.01	0.93	3.1	3	0.4	153.0	0.26	<0.05	1.0	0.131	0.19	0.5
H246985		134.5	42.6	<0.002	0.01	3.56	6.5	3	1.5	152.5	0.47	0.05	2.2	0.232	0.90	0.9
H246986		13.9	13.4	<0.002	<0.01	0.61	2.9	3	0.3	202	0.25	<0.05	0.9	0.122	0.15	0.4
H246987		24.0	15.3	<0.002	<0.01	2.22	3.6	3	0.4	50.0	0.24	<0.05	1.0	0.117	0.22	0.5
H246988		233	77.0	<0.002	0.01	7.09	11.1	2	3.0	62.3	0.81	0.07	4.1	0.411	1.22	1.5
H246989		2.4	1.5	<0.002	0.03	0.15	0.5	3	<0.2	51.6	<0.05	<0.05	<0.2	0.005	<0.02	0.6
H246990		210	80.1	<0.002	0.01	7.01	11.0	2	3.2	50.0	0.85	0.06	4.3	0.435	1.27	1.7
H246991		5.6	13.1	<0.002	0.01	1.70	2.8	3	0.3	74.2	0.24	<0.05	0.8	0.112	0.12	0.6
H246992		12.0	15.7	<0.002	0.01	1.72	3.3	3	0.4	50.5	0.29	<0.05	1.1	0.144	0.18	0.7
H246993		31.3	13.3	<0.002	0.01	1.51	3.5	3	0.4	79.2	0.19	<0.05	0.9	0.091	0.25	0.5
H246994		45.3	26.7	<0.002	0.01	2.81	5.0	3	0.9	78.2	0.44	<0.05	1.7	0.213	0.63	0.8
H246995		14.1	19.4	<0.002	0.01	3.23	3.6	3	0.6	40.5	0.37	0.05	1.2	0.173	0.26	1.0
H246996		41.6	17.6	<0.002	0.02	3.31	4.1	3	0.7	41.2	0.22	<0.05	1.4	0.114	0.48	0.7
H246997		369	79.1	<0.002	0.01	13.40	13.2	2	4.1	23.8	0.75	0.11	4.6	0.423	2.04	2.1
H246998		155.5	54.0	0.002	0.03	9.69	9.2	2	2.2	66.1	0.59	0.07	2.9	0.310	1.28	1.8
H246999		20.9	21.6	<0.002	0.09	6.71	4.0	3	0.7	69.9	0.53	0.05	1.6	0.244	0.25	1.6
H247000		291	76.2	0.003	0.27	35.2	13.3	3	3.3	49.5	0.81	0.24	4.7	0.403	1.62	4.2
H247001		75.1	15.7	<0.002	0.11	36.8	3.3	7	1.2	19.2	0.08	0.98	0.9	0.041	1.04	5.5
H247002		14.7	2.0	<0.002	0.28	49.7	1.1	4	0.4	41.2	<0.05	0.47	0.2	0.005	0.19	6.0
H247003		2850	4.7	<0.002	0.36	750	<0.1	25	16.4	319	<0.05	8.31	0.4	0.062	0.93	3.3
H247004		16.5	7.0	0.006	>10.0	21.3	0.5	5	1.1	87.0	<0.05	0.97	0.5	0.007	0.10	0.7
H247005		1350	3.9	<0.002	0.27	478	<0.1	31	13.7	125.0	<0.05	13.15	0.2	0.067	0.86	2.0
H247006		464	53.5	<0.002	0.10	52.9	<0.1	4	17.6	57.9	0.17	1.05	1.0	0.096	1.07	1.6
H247007		123.5	9.8	0.003	0.04	30.4	1.7	5	1.0	20.1	<0.05	1.17	0.9	0.017	0.28	1.6
H247008		373	28.0	0.003	0.08	31.6	2.7	6	3.2	22.2	0.07	0.88	1.1	0.039	0.38	1.8
H247009		502	10.7	0.003	0.28	13.15	3.9	7	0.9	45.3	<0.05	0.31	0.8	0.023	0.58	3.6
H247010		1110	9.5	0.019	0.07	191.5	1.2	6	3.7	17.7	<0.05	0.50	0.8	0.015	0.82	11.3
H247011		862	2.2	0.011	0.05	179.5	1.4	5	6.4	15.9	<0.05	0.34	0.7	<0.005	1.22	10.3
H247012		365	2.7	0.007	0.14	70.0	3.3	4	1.1	26.6	<0.05	0.55	1.0	0.008	0.52	5.6
H247013		317	23.6	<0.002	0.45	64.4	3.6	2	3.5	80.1	0.15	0.73	1.3	0.062	0.72	6.0
H247014		7.6	7.2	<0.002	>10.0	22.8	<0.1	7	3.1	61.7	0.06	1.30	0.3	0.007	0.16	0.5
H247015		40.1	7.0	<0.002	0.10	5.50	3.2	2	0.2	29.2	<0.05	0.13	1.2	0.022	0.14	4.1
H247016		19.9	3.1	<0.002	0.03	2.93	4.2	3	<0.2	17.2	<0.05	0.08	0.5	0.012	0.24	4.7
H247017		2.1	1.1	<0.002	0.01	0.25	0.3	2	<0.2	46.7	<0.05	<0.05	<0.2	<0.005	<0.02	0.7
H247018		4.8	2.2	<0.002	0.03	0.72	0.7	3	<0.2	104.0	0.05	<0.05	0.2	0.019	0.03	0.2
H247019		8.6	8.2	<0.002	0.02	0.57	0.8	2	0.4	52.2	<0.05	<0.05	0.5	0.016	0.09	0.3

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068946

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62
	Analyte	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	0.01
H246984		23	4.4	8.2	196	17.5	
H246985		39	14.8	12.6	782	27.8	
H246986		22	1.2	8.3	102	18.6	
H246987		30	1.2	11.5	204	19.6	
H246988		82	6.1	18.2	1730	56.0	
H246989		2	0.2	1.0	19	0.6	
H246990		88	5.9	18.1	1830	60.1	
H246991		27	1.6	8.7	98	19.7	
H246992		38	1.2	8.9	163	24.3	
H246993		21	1.8	12.8	272	14.9	
H246994		40	4.0	13.6	530	28.6	
H246995		33	3.9	9.5	147	28.7	
H246996		31	7.9	12.5	397	21.3	
H246997		96	22.1	22.7	1940	57.5	
H246998		86	29.7	19.2	1150	42.0	
H246999		40	24.3	10.7	209	41.3	
H247000		105	191.5	30.1	2540	68.5	
H247001		20	118.5	26.8	1410	10.4	1.83
H247002		4	20.0	9.5	638	4.1	4.11
H247003		5	419	1.0	47	48.3	17.60
H247004		4	200	7.2	139	3.1	2.65
H247005		8	391	2.4	379	45.1	15.75
H247006		41	82.5	10.4	1400	56.1	6.19
H247007		20	169.0	9.0	2060	10.0	2.73
H247008		29	150.5	11.2	4040	23.6	2.63
H247009		38	148.5	25.8	5090	9.7	3.10
H247010		60	1760	19.4	4970	12.2	1.82
H247011		23	1400	22.1	6040	3.0	1.61
H247012		29	630	36.4	6450	8.6	2.22
H247013		51	610	45.6	5670	19.5	1.73
H247014		4	40.9	4.5	18	5.7	4.76
H247015		16	28.2	27.9	3610	6.1	1.64
H247016		12	10.5	45.1	3490	4.4	1.21
H247017		2	0.8	1.0	20	<0.5	
H247018		9	1.4	7.2	128	3.5	
H247019		7	1.2	3.9	376	4.3	

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068946

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

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Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE VA09068685

Project: RAU

P.O. No.: Batch 4

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG62	Ore Grade As - Four Acid	VARIABLE

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068685

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H246912		1.18	0.10	3.74	2.83	>10000	330	1.36	0.90	0.65	7.43	48.9	21.2	20	2.76	58.8
H246913		2.32	0.02	0.12	1.99	278	340	0.73	0.13	16.05	0.17	31.2	12.0	15	2.44	8.4
H246914		3.04	0.04	10.30	2.39	2830	610	1.01	0.27	13.75	2.37	38.2	19.7	26	2.74	16.5
H246915		3.74	<0.01	0.05	0.08	11	50	0.10	0.11	19.95	0.06	1.61	1.2	1	0.21	1.7
H246916		11.18	<0.01	0.22	2.20	57	690	0.94	0.16	17.50	0.21	33.1	8.1	24	2.11	13.5
H246917		4.86	<0.01	0.05	0.30	14	130	0.15	0.40	36.9	0.53	5.22	1.7	8	0.44	2.8
H246918		3.64	<0.01	0.13	0.51	55	210	0.21	0.71	36.6	0.96	7.27	2.2	13	0.65	4.7
H246919		2.38	0.22	16.75	0.77	5800	500	0.20	1225	0.33	19.20	13.15	8.3	37	1.04	28.8
H246920		2.14	0.47	8.55	0.55	6080	3060	0.12	564	0.29	5.94	6.80	7.6	18	0.47	20.6
H246921		1.20	0.10	1.54	0.45	2330	480	0.15	309	0.14	5.78	5.38	6.7	22	0.67	15.9
H246922		0.28	0.50	0.81	0.79	5130	130	0.27	94.3	12.85	0.13	31.9	5.6	15	1.88	31.2
H246923		2.38	0.09	1.83	1.33	2420	610	0.43	244	0.32	5.49	10.75	9.5	47	0.93	55.6
H246924		0.74	0.08	3.90	0.92	5030	2980	0.24	229	0.60	10.90	15.90	6.2	23	2.36	15.3
H246925		0.94	<0.01	0.67	0.05	159.5	230	<0.05	3.31	0.09	0.53	1.54	1.6	12	0.34	2.3
H246926		3.94	<0.01	0.02	0.07	14	20	0.07	0.54	20.4	0.07	1.53	1.0	1	0.17	1.5
H246927		3.22	0.02	0.60	0.39	1460	930	0.19	29.4	27.0	3.62	10.50	2.7	13	0.76	2.6
H246928		1.62	0.06	1.04	0.68	1180	2440	0.29	15.65	30.1	6.34	13.90	4.7	19	1.10	2.5
H246929		2.26	0.15	2.65	0.62	117	3040	0.40	17.80	24.6	0.88	10.30	2.0	17	1.17	4.3
H246930		4.82	0.02	0.26	0.92	33	300	0.53	4.03	21.7	0.19	10.10	2.2	22	0.95	2.5
H246931		1.36	0.06	1.14	1.00	1430	1280	0.45	115.0	24.7	3.86	12.05	5.4	33	0.69	2.9
H246932		2.04	0.29	2.28	0.72	1020	2160	0.42	128.5	26.6	4.70	11.80	4.6	19	0.63	4.0
H246933		2.50	0.05	1.13	0.66	245	730	0.38	8.97	27.9	1.97	9.80	2.2	16	0.46	2.8
H246934		1.24	0.05	1.05	0.62	222	680	0.40	9.85	28.0	1.91	10.30	2.3	14	0.44	3.8
H246935		2.06	0.07	4.30	0.68	961	1380	0.38	83.3	28.5	6.58	11.65	2.6	18	0.44	8.4
H246936		2.92	0.02	3.37	0.78	185	6890	0.55	11.75	21.6	5.32	9.09	3.3	23	0.50	5.9
H246937		2.84	0.02	1.19	0.75	60	7150	0.48	5.04	19.45	13.20	9.56	3.3	14	0.74	5.9
H246938		4.88	0.01	0.14	0.53	19	550	0.35	1.13	19.35	1.19	7.76	2.2	10	0.81	2.5
H246939		5.26	0.03	0.06	1.05	16	160	0.44	4.33	16.00	0.04	12.35	3.4	17	3.35	4.7
H246940		2.96	0.06	0.13	2.40	41	360	0.81	9.97	13.80	0.06	19.40	9.6	47	7.05	7.1
H246941		3.64	0.11	0.24	2.37	48	350	0.91	14.70	12.00	0.61	22.6	13.8	36	7.96	11.4
H246942		3.22	0.19	0.83	1.10	78	210	0.43	15.05	13.45	2.89	18.40	8.9	12	2.47	8.2
H246943		0.28	5.62	0.25	0.12	>10000	30	0.05	483	8.90	0.04	37.1	1.8	13	0.75	42.9
H246944		4.22	0.14	0.50	2.25	45	270	0.99	12.20	13.05	1.94	12.55	4.5	24	3.83	7.0
H246945		1.90	0.31	7.21	3.67	276	640	1.39	31.0	11.55	9.30	10.05	7.8	33	3.11	13.9
H246946		1.66	0.04	0.15	2.53	58	570	0.92	4.27	16.20	0.41	10.30	2.4	28	4.22	4.7
H246947		2.42	0.13	5.99	2.08	6730	170	0.71	95.3	9.40	15.70	15.05	17.1	36	1.15	87.0

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Project: RAU

Finalized Date: 28-JUL-2009
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CERTIFICATE OF ANALYSIS VA09068685

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246912		35.0	7.04	0.62	0.5	0.1	0.081	0.39	27.8	8.8	0.27	2140	4.19	0.02	2.7	83.2
H246913		3.12	6.17	0.09	0.7	<0.01	0.011	0.86	22.1	9.0	7.34	892	0.35	0.02	8.4	22.5
H246914		11.15	8.56	0.24	0.8	<0.1	0.022	1.01	25.7	6.4	2.76	4090	2.54	0.03	12.0	38.5
H246915		0.43	0.46	0.16	<0.1	<0.01	<0.005	0.03	0.7	1.3	12.85	193	0.09	0.01	0.4	1.4
H246916		4.19	7.19	0.17	0.6	<0.01	0.023	1.11	22.4	6.4	4.22	362	0.31	0.03	13.0	22.5
H246917		0.41	0.96	0.11	0.1	<0.01	0.005	0.11	4.9	1.3	0.34	218	0.10	0.01	1.3	2.7
H246918		0.68	1.46	0.11	0.2	0.01	0.010	0.19	5.8	2.3	0.25	253	0.15	0.01	2.2	6.9
H246919		46.9	3.61	0.81	0.3	<1	0.049	0.18	8.8	4.2	0.25	414	9.89	0.03	1.6	28.6
H246920		45.9	4.00	0.82	0.4	0.1	0.182	0.10	3.0	1.5	0.19	541	8.60	0.07	0.8	23.7
H246921		16.40	3.30	0.21	0.5	0.05	0.020	0.05	2.5	1.3	0.16	193	2.23	0.04	0.6	15.8
H246922		14.25	3.67	0.26	0.2	0.03	0.069	0.38	18.4	4.1	6.59	2010	14.25	0.02	3.1	20.6
H246923		17.65	7.57	0.20	1.3	0.04	0.089	0.27	5.2	2.7	0.36	718	2.17	0.08	1.7	31.4
H246924		31.2	4.26	0.40	0.4	0.06	0.137	0.28	7.6	3.6	0.24	6830	4.02	0.06	1.3	23.8
H246925		1.14	0.42	<0.05	<0.1	0.01	0.016	0.02	0.9	0.8	0.02	934	0.35	0.01	0.2	2.5
H246926		0.45	0.34	0.06	<0.1	<0.01	<0.005	0.03	0.7	1.3	13.15	207	0.24	0.01	0.4	0.9
H246927		10.60	2.59	0.16	0.2	0.02	0.174	0.13	4.4	1.0	0.24	2660	1.24	0.02	1.0	5.8
H246928		8.00	4.74	0.15	0.5	0.02	0.128	0.19	6.5	1.5	0.36	3020	1.46	0.05	2.5	8.0
H246929		1.53	3.60	0.08	0.4	0.03	0.023	0.26	6.4	3.6	6.84	1180	0.39	0.05	3.7	4.1
H246930		1.36	5.29	0.08	0.7	0.01	0.018	0.37	6.6	5.2	10.35	1080	0.32	0.03	6.0	5.4
H246931		11.55	6.41	0.19	0.7	0.02	0.118	0.45	5.7	2.3	0.45	2960	1.87	0.03	4.3	13.7
H246932		9.49	4.29	0.15	0.5	0.03	0.050	0.30	6.6	1.7	0.73	2710	1.71	0.04	2.8	13.8
H246933		4.31	4.44	0.09	0.4	0.02	0.117	0.28	4.5	2.2	3.19	2810	0.94	0.02	2.7	5.2
H246934		4.44	4.21	0.10	0.4	0.02	0.123	0.26	4.6	2.1	3.10	2900	1.03	0.02	2.8	6.2
H246935		10.60	4.44	0.18	0.4	0.04	0.150	0.28	5.5	1.8	0.72	2410	1.64	0.03	2.1	8.1
H246936		3.55	4.77	0.09	0.5	0.03	0.090	0.34	5.6	2.8	7.84	1560	0.79	0.10	2.5	9.5
H246937		1.92	3.71	0.08	0.5	0.06	0.037	0.34	6.8	2.9	10.50	1280	0.35	0.10	3.8	8.0
H246938		1.07	1.80	<0.05	0.3	<0.1	<0.005	0.25	6.5	3.3	10.40	853	0.13	0.02	3.0	7.5
H246939		1.09	3.52	0.06	0.7	<0.1	0.005	0.62	10.4	7.8	9.58	511	0.31	0.02	6.3	11.6
H246940		1.88	8.07	0.08	1.6	<0.1	0.016	1.32	15.2	13.9	9.19	556	0.48	0.03	15.5	24.8
H246941		3.89	9.65	0.10	1.1	<0.1	0.020	1.28	15.1	13.5	8.41	952	0.53	0.02	11.2	35.7
H246942		5.32	4.80	0.11	0.3	<0.1	0.018	0.52	11.1	4.9	8.61	1040	0.41	0.02	4.9	25.9
H246943		24.0	1.18	0.34	0.1	0.2	0.049	0.07	24.3	1.7	4.92	1460	11.20	<0.01	1.6	14.0
H246944		3.51	10.75	0.07	1.2	<0.1	0.017	1.00	8.8	6.7	8.20	1220	0.54	0.03	6.1	14.9
H246945		9.61	23.4	0.15	2.0	0.1	0.067	1.58	4.7	7.2	6.74	2700	0.69	0.04	8.3	28.2
H246946		2.44	14.35	0.08	1.6	<0.1	0.042	1.19	6.4	11.5	9.63	1740	0.44	0.03	16.1	7.2
H246947		18.55	12.70	0.20	2.0	0.1	0.463	0.11	6.5	2.9	5.41	3880	1.15	0.15	4.2	49.8

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

Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068685

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H246912		1500	212	23.6	0.002	0.03	20.1	6.2	6	0.5	21.3	0.16	0.16	1.8	0.091	0.57
H246913		1060	7.6	25.9	0.003	0.60	0.52	4.7	2	0.5	74.2	0.49	0.05	2.0	0.240	0.16
H246914		1230	17.7	33.9	0.002	0.65	1.04	5.6	3	0.7	88.9	0.74	0.06	2.5	0.313	0.31
H246915		320	1.8	1.6	<0.002	0.01	0.07	0.5	2	<0.2	54.2	<0.05	<0.05	<0.2	0.005	<0.02
H246916		1170	8.5	30.8	0.002	1.74	0.53	5.3	2	0.7	99.4	0.78	0.05	2.5	0.319	0.11
H246917		100	9.2	5.2	<0.002	0.01	0.30	1.1	2	0.2	117.0	0.07	<0.05	0.3	0.034	0.06
H246918		150	16.8	9.0	<0.002	0.01	0.73	1.7	3	0.3	101.0	0.12	<0.05	0.5	0.058	0.11
H246919		630	283	9.6	<0.002	0.03	24.4	1.8	4	2.6	11.7	0.13	2.36	0.8	0.041	0.35
H246920		430	257	4.8	<0.002	0.10	8.47	2.5	3	3.4	14.4	0.05	1.03	0.4	0.023	0.10
H246921		340	50.6	4.0	<0.002	0.02	5.95	1.2	2	1.2	8.0	<0.05	0.79	0.4	0.020	0.08
H246922		240	13.7	28.5	0.017	>10.0	4.16	1.8	6	3.0	81.4	0.18	0.20	0.7	0.085	0.25
H246923		950	96.8	37.6	<0.002	0.03	5.94	3.1	2	6.7	14.7	0.09	0.64	1.8	0.058	0.38
H246924		2090	115.0	17.9	<0.002	0.06	6.68	5.7	3	1.1	18.7	0.06	0.56	1.6	0.046	0.84
H246925		30	6.2	1.2	<0.002	<0.01	0.62	0.6	2	0.2	2.7	<0.05	<0.05	<0.2	0.005	0.10
H246926		270	2.3	1.4	<0.002	0.01	0.08	0.4	2	<0.2	51.4	<0.05	<0.05	<0.2	<0.005	<0.02
H246927		610	38.2	11.8	<0.002	0.02	1.69	4.0	3	0.5	16.4	0.05	0.11	0.3	0.026	0.14
H246928		1050	47.3	27.1	<0.002	0.06	1.40	4.6	2	1.1	36.3	0.13	0.16	0.8	0.069	0.29
H246929		250	21.9	22.1	<0.002	0.09	0.83	2.2	2	1.1	76.1	0.20	0.13	0.8	0.094	0.15
H246930		370	10.9	24.9	<0.002	0.02	0.55	2.5	2	1.5	92.5	0.34	0.08	1.1	0.150	0.15
H246931		930	42.1	26.3	<0.002	0.03	3.56	5.4	3	1.3	25.8	0.24	0.22	1.1	0.109	0.29
H246932		420	133.0	20.1	<0.002	0.05	6.92	3.4	4	1.0	29.2	0.15	0.26	0.7	0.074	0.22
H246933		260	112.0	17.0	<0.002	0.02	4.96	5.1	3	1.4	53.5	0.14	0.10	0.4	0.070	0.14
H246934		280	119.0	16.5	<0.002	0.02	4.35	5.2	3	1.4	54.1	0.15	0.09	0.6	0.072	0.15
H246935		460	120.0	16.6	<0.002	0.04	4.01	4.3	4	1.5	37.3	0.11	0.18	0.5	0.054	0.18
H246936		270	104.5	20.4	<0.002	0.19	3.21	2.8	3	3.1	138.0	0.13	0.11	0.7	0.069	0.17
H246937		250	60.7	27.9	<0.002	0.22	1.45	2.2	4	1.7	184.0	0.21	0.08	0.8	0.098	0.22
H246938		210	18.7	17.8	<0.002	0.02	0.80	1.6	2	0.5	98.1	0.15	<0.05	0.5	0.076	0.15
H246939		330	10.3	56.1	<0.002	0.14	0.84	2.7	2	0.8	86.5	0.34	0.11	1.1	0.130	0.37
H246940		930	16.2	110.5	<0.002	0.37	0.97	5.5	2	2.1	74.6	0.81	0.29	2.6	0.294	0.78
H246941		910	26.6	97.5	<0.002	0.13	1.16	5.3	2	3.2	62.8	0.58	0.08	2.2	0.247	0.94
H246942		880	102.0	36.2	<0.002	0.12	1.15	3.7	3	1.2	80.5	0.23	0.05	0.9	0.125	0.51
H246943		70	16.1	8.1	0.002	>10.0	23.4	0.4	9	2.1	63.3	0.08	1.51	0.3	0.008	0.16
H246944		810	77.9	70.7	<0.002	0.18	1.06	4.4	2	3.0	73.7	0.32	0.09	1.4	0.153	0.85
H246945		1050	837	95.9	<0.002	1.89	3.70	5.2	2	5.3	84.7	0.45	0.39	3.7	0.180	1.17
H246946		940	7.1	83.6	0.003	0.13	1.07	4.1	3	3.9	96.0	0.95	0.14	1.9	0.400	0.73
H246947		2130	278	15.5	0.002	1.68	9.26	4.4	8	7.6	155.5	0.24	1.89	2.4	0.099	2.24

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068685

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.01
H246912		5.1	60	45.6	36.7	2090	19.8	1.84
H246913		0.8	47	1.3	12.1	65	25.2	
H246914		1.4	71	58.2	19.7	596	29.7	
H246915		0.8	3	0.4	1.1	15	0.5	
H246916		0.6	54	1.3	12.2	53	23.9	
H246917		0.2	7	0.5	5.0	134	5.4	
H246918		0.3	10	3.6	5.9	343	9.1	
H246919		4.0	16	56.6	8.7	5110	13.9	
H246920		3.1	15	77.4	8.2	3680	18.1	
H246921		1.6	13	5.3	6.4	857	17.5	
H246922		0.4	16	56.8	7.1	35	6.7	
H246923		2.1	36	9.3	10.1	1760	49.4	
H246924		2.2	26	21.2	16.0	3430	15.0	
H246925		0.1	2	9.6	1.4	122	0.8	
H246926		0.7	2	0.5	1.1	20	<0.5	
H246927		0.7	21	7.3	9.7	995	8.2	
H246928		0.8	27	10.8	12.0	1000	18.7	
H246929		0.6	22	2.9	6.9	226	18.1	
H246930		0.8	31	4.0	7.1	106	27.2	
H246931		1.3	34	73.7	12.2	1170	28.0	
H246932		1.1	22	11.8	12.3	1200	19.5	
H246933		0.9	22	8.1	10.8	529	17.8	
H246934		1.0	22	8.1	11.7	520	18.9	
H246935		1.2	22	4.6	11.4	1100	17.3	
H246936		0.8	24	6.2	7.8	898	18.9	
H246937		0.8	22	3.4	6.6	2050	19.5	
H246938		0.4	15	1.8	6.6	235	13.3	
H246939		0.8	28	1.4	11.5	24	26.7	
H246940		1.6	87	3.2	15.4	48	59.0	
H246941		1.2	82	3.6	12.2	609	43.9	
H246942		0.5	33	2.1	10.2	1020	17.0	
H246943		0.4	6	39.7	4.9	11	5.5	4.56
H246944		1.0	47	3.5	10.5	556	42.8	
H246945		1.9	79	9.9	15.1	2970	74.6	
H246946		1.5	71	7.1	8.5	371	67.5	
H246947		3.4	75	9.2	18.5	3750	89.6	

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To: ATAC RESOURCES LTD.
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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068685

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE VA09068430

Project: RAU

P.O. No.: Batch 19

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 21-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068430

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H248602		0.78	0.15	0.33	3.83	402	820	0.94	32.6	10.90	0.50	19.35	17.9	83	4.92	30.5
H248603		2.74	0.04	0.13	1.35	170	210	0.34	14.15	14.10	0.36	8.41	4.1	18	1.89	14.5
H248604		1.28	0.04	0.25	4.43	1420	360	1.08	12.40	9.87	7.10	32.3	14.2	86	4.41	24.5
H248605		3.36	<0.01	0.05	0.10	13	20	0.08	0.26	20.5	0.07	1.19	1.0	<1	0.19	3.1
H248606		3.84	0.01	0.10	0.87	123	220	0.30	3.23	18.65	0.44	8.10	3.0	16	1.03	5.1
H248607		0.28	5.43	0.24	0.13	>10000	20	<0.05	500	9.39	0.07	35.5	1.8	11	0.76	44.9
H248608		5.12	0.03	0.16	0.92	69	360	0.37	5.96	17.35	0.21	8.26	3.2	17	1.49	11.2
H248609		5.26	0.03	0.26	0.64	145	370	0.28	50.8	17.00	0.90	6.28	2.7	10	1.32	10.6
H248610		2.50	0.02	0.19	0.71	149	430	0.29	9.87	18.60	1.13	7.25	2.8	11	1.45	7.7
H248611		5.68	0.02	0.35	0.53	80	550	0.27	5.08	17.60	0.81	5.91	2.8	8	1.39	40.7
H248612		5.66	0.08	0.16	0.66	88	60	0.29	10.20	19.05	0.75	7.87	2.2	8	1.78	4.3
H248613		5.68	0.02	0.17	0.33	210	30	0.18	25.2	18.90	2.06	6.63	1.5	2	0.82	3.8
H248614		4.06	<0.01	0.08	0.33	53	40	0.18	3.39	19.85	0.48	6.56	2.6	3	1.42	4.2
H248615		4.96	0.03	0.08	4.29	512	110	1.21	401	8.32	0.54	125.0	29.0	29	27.9	14.0
H248616		5.88	0.01	0.08	5.22	351	250	1.12	119.0	10.20	2.22	81.4	43.8	24	38.1	14.5
H248617		2.66	0.01	0.01	4.11	369	120	1.08	122.5	13.10	4.46	153.5	33.9	21	45.8	8.0
H248618		5.60	<0.01	<0.01	6.54	84	630	1.16	4.94	10.30	0.09	88.1	43.1	39	30.3	14.1
H248619		4.74	<0.01	<0.01	8.18	179.0	550	1.40	16.65	2.20	0.76	87.5	57.2	55	7.92	15.6
H248620		3.42	<0.01	<0.01	8.82	114.0	210	1.53	5.97	2.89	0.17	112.0	71.6	59	9.36	25.1
H248621		7.68	0.02	0.13	0.31	71	130	0.11	0.29	37.9	0.33	5.31	1.5	4	0.46	3.1
H248622		3.20	<0.01	0.13	0.50	206	170	0.14	0.50	37.2	0.46	5.32	2.3	8	1.34	6.2
H248623		5.92	0.01	0.15	0.28	123	110	0.12	0.20	38.7	0.52	4.88	1.4	4	0.58	3.5
H248624		0.28	1.50	1.77	0.11	>10000	10	<0.05	376	12.90	0.83	58.7	1.7	3	0.67	17.6
H248625		4.48	0.01	0.24	0.22	48	120	0.10	0.15	37.6	0.43	4.77	1.4	5	0.24	2.7
H248626		4.86	0.01	0.19	0.50	126	210	0.19	0.84	36.1	0.41	6.78	1.8	10	0.65	3.3
H248627		4.54	0.01	0.26	0.94	157	310	0.33	0.70	34.4	0.77	14.30	3.2	25	0.78	5.2
H248628		2.76	0.02	0.26	0.98	157	390	0.36	0.94	35.1	1.42	15.15	8.6	22	1.27	8.9
H248629		3.54	0.02	1.73	0.87	122	240	0.24	2.05	35.4	1.15	12.10	3.4	16	1.18	10.4
H248630		2.40	1.67	4.13	3.77	1800	1040	1.52	700	2.00	3.18	30.9	10.9	62	3.04	64.4
H248631		4.28	10.85	2.80	0.21	7110	200	0.05	774	0.46	0.49	4.44	1.8	17	0.28	451
H248632		7.16	1.91	5.60	2.46	6720	530	0.64	424	0.33	4.70	20.6	10.8	52	4.33	203
H248633		3.56	1.59	3.08	0.53	>10000	540	0.15	407	0.67	7.86	9.55	2.8	14	0.82	11.5
H248634		4.12	0.01	0.03	0.11	22	30	0.11	1.26	18.90	0.08	1.86	1.2	<1	0.22	2.8
H248635		8.50	4.65	2.48	0.29	>10000	2170	0.05	324	1.41	6.59	4.32	1.4	5	0.30	5.9
H248636		3.44	8.94	63.8	0.24	>10000	150	0.07	2440	1.99	1.31	13.65	0.3	5	0.39	10.7
H248637		2.88	2.95	3.41	0.89	>10000	180	0.25	4400	1.59	9.88	33.2	0.7	12	23.8	14.9

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068430

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H248602		11.65	14.15	0.19	1.7	0.01	0.026	1.65	10.8	15.1	7.92	891	1.19	0.02	21.1	53.7
H248603		5.37	4.83	0.11	0.5	<0.01	0.021	0.56	5.4	8.6	9.71	630	0.30	<0.01	8.4	14.3
H248604		17.85	10.60	0.27	0.8	0.02	0.017	0.84	14.5	23.0	6.06	1640	0.47	<0.01	11.5	76.9
H248605		0.50	0.32	0.06	<0.1	<0.01	<0.005	0.04	0.6	1.1	13.60	194	0.18	<0.01	0.4	2.6
H248606		1.96	2.88	0.05	0.4	<0.01	0.010	0.41	5.5	8.8	12.70	591	0.13	<0.01	6.2	13.3
H248607		24.0	1.24	0.33	0.2	0.01	0.068	0.07	23.9	1.7	5.13	1520	10.70	<0.01	1.5	15.9
H248608		2.42	3.04	0.07	0.5	<0.01	0.012	0.43	4.9	8.7	11.40	618	0.22	0.01	4.3	11.0
H248609		2.65	2.25	0.06	0.3	<0.01	0.013	0.25	4.0	4.4	11.05	948	0.14	<0.01	3.7	10.0
H248610		2.76	2.45	0.07	0.4	<0.01	0.015	0.28	4.6	4.9	12.20	1080	0.15	<0.01	3.8	10.3
H248611		2.37	2.27	0.06	0.3	<0.01	0.021	0.25	4.1	2.9	11.60	884	0.25	<0.01	2.8	8.1
H248612		2.76	3.00	0.07	0.4	<0.01	0.016	0.20	5.4	3.0	12.40	1060	0.10	<0.01	3.8	7.9
H248613		3.89	1.81	0.08	0.2	<0.01	0.023	0.11	4.5	2.3	12.15	1060	0.09	<0.01	1.7	3.9
H248614		2.70	1.72	0.06	0.2	<0.01	0.023	0.15	4.6	2.6	12.60	1310	0.22	<0.01	1.9	6.3
H248615		14.25	19.40	0.25	1.9	<0.01	0.019	3.21	76.5	23.8	4.96	398	0.40	0.02	14.7	80.1
H248616		10.80	22.2	0.21	3.2	<0.01	0.018	4.41	42.3	36.8	5.96	863	0.20	0.03	14.6	85.9
H248617		7.58	24.0	0.18	2.6	<0.01	0.014	3.63	97.8	35.9	7.55	776	0.26	<0.01	11.4	57.2
H248618		3.26	23.5	0.15	4.2	<0.01	0.033	4.70	45.5	30.2	4.42	466	0.22	0.05	34.4	80.7
H248619		7.47	28.4	0.21	2.6	<0.01	0.059	4.28	41.4	20.4	1.63	166	0.28	0.08	32.5	142.5
H248620		5.66	29.1	0.21	1.8	<0.01	0.075	4.69	51.1	23.0	1.48	177	0.33	0.05	40.3	129.0
H248621		0.38	0.86	<0.05	0.1	<0.01	0.007	0.12	4.2	1.0	0.52	280	0.13	<0.01	1.9	5.2
H248622		0.77	1.23	<0.05	0.2	<0.01	0.009	0.18	4.5	2.2	0.32	367	0.17	<0.01	1.9	11.2
H248623		0.50	0.75	<0.05	0.1	<0.01	0.005	0.10	4.4	0.9	0.27	292	0.12	<0.01	1.5	5.5
H248624		17.15	0.94	0.26	0.1	<0.01	0.089	0.07	38.3	1.8	7.52	2350	5.82	<0.01	0.7	7.4
H248625		0.34	0.66	0.06	0.1	<0.01	<0.005	0.09	4.0	1.0	0.31	243	0.08	<0.01	1.5	4.8
H248626		0.70	1.27	<0.05	0.2	<0.01	0.007	0.21	5.3	1.8	0.29	300	0.15	<0.01	3.0	7.4
H248627		1.36	2.35	0.06	0.4	0.01	0.022	0.44	9.8	3.5	0.35	455	0.17	<0.01	5.6	13.9
H248628		1.19	2.40	0.05	0.6	0.01	0.038	0.41	10.2	4.0	0.28	647	0.29	<0.01	5.5	19.0
H248629		1.20	2.20	0.05	0.3	0.01	0.048	0.31	8.2	4.1	0.28	635	0.32	<0.01	3.7	16.3
H248630		32.5	23.3	0.55	1.7	0.05	0.112	1.07	15.9	13.0	1.52	5250	4.11	0.03	10.8	57.0
H248631		>50	2.78	0.67	0.2	0.04	1.810	0.06	2.1	0.9	0.14	703	9.31	<0.01	0.7	7.9
H248632		41.4	9.91	0.59	0.9	0.02	0.839	0.85	11.3	8.4	0.38	527	7.26	<0.01	5.2	49.0
H248633		>50	3.09	0.57	0.3	0.02	0.121	0.16	4.6	1.1	0.13	330	6.12	<0.01	1.1	14.4
H248634		0.52	0.40	0.13	<0.1	<0.01	0.005	0.04	0.9	1.5	12.45	184	0.33	0.01	0.6	2.8
H248635		>50	1.77	0.41	0.3	0.02	0.116	0.13	2.2	1.4	0.11	486	3.54	0.01	0.9	7.0
H248636		23.4	3.18	0.47	1.1	0.02	0.520	1.25	7.9	2.9	0.04	28	0.95	<0.01	3.4	1.1
H248637		37.6	10.30	0.60	0.5	0.01	0.487	2.14	18.5	11.9	0.06	321	1.29	<0.01	0.7	2.5

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Project: RAU

Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068430

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H248602		780	7.3	59.4	0.002	0.64	6.16	7.1	9	2.3	47.5	1.09	0.09	4.8	0.315	0.84
H248603		320	2.7	21.3	0.002	0.94	2.21	2.1	7	0.7	43.6	0.42	0.05	1.6	0.108	0.20
H248604		1240	49.4	44.5	0.003	1.34	5.01	8.1	5	1.5	44.9	0.65	0.07	2.2	0.261	0.59
H248605		220	1.7	1.9	<0.002	0.01	0.10	0.3	2	<0.2	50.1	<0.05	<0.05	<0.2	0.005	<0.02
H248606		320	2.5	14.2	<0.002	0.67	0.94	2.0	2	0.5	55.4	0.32	<0.05	0.8	0.101	0.13
H248607		70	10.8	7.9	<0.002	>10.0	23.7	0.4	8	3.1	59.7	0.07	1.33	0.4	0.008	0.19
H248608		220	5.2	17.3	<0.002	2.53	3.12	2.1	3	0.7	57.8	0.23	<0.05	0.9	0.083	0.22
H248609		290	26.2	17.9	0.002	1.93	12.65	1.5	3	0.5	68.7	0.20	0.08	0.6	0.067	0.19
H248610		300	19.2	19.3	<0.002	1.87	4.53	1.7	2	0.5	76.5	0.21	0.06	0.7	0.068	0.20
H248611		260	33.1	27.2	<0.002	1.83	13.75	1.1	2	0.9	62.5	0.15	0.08	0.4	0.055	0.22
H248612		350	16.8	33.2	<0.002	2.20	1.49	1.6	2	0.8	63.2	0.21	0.14	0.6	0.076	0.24
H248613		300	19.8	18.1	<0.002	3.91	1.35	0.9	3	0.6	71.3	0.09	0.11	0.3	0.035	0.15
H248614		260	2.7	23.9	0.002	1.92	0.76	0.9	2	0.4	72.7	0.10	<0.05	0.3	0.037	0.31
H248615		2840	5.4	560	0.002	>10.0	4.20	7.9	3	3.9	35.9	0.84	0.47	2.9	0.522	2.38
H248616		3940	3.7	730	0.002	>10.0	1.64	10.8	2	5.1	49.7	0.85	0.43	3.3	0.555	3.19
H248617		2320	14.0	860	0.002	8.59	2.47	8.6	3	3.9	61.9	0.63	0.16	2.7	0.453	3.49
H248618		3300	2.2	610	<0.002	3.58	0.40	13.6	2	5.7	57.1	2.06	0.12	4.6	1.145	2.46
H248619		4230	3.3	227	0.002	8.41	0.92	17.8	3	7.7	39.8	1.93	0.06	5.2	1.155	1.09
H248620		3910	3.5	226	<0.002	6.43	0.90	20.6	3	9.5	40.6	2.46	0.08	5.8	1.350	1.22
H248621		80	4.8	5.7	<0.002	0.04	0.33	1.0	2	0.2	138.0	0.10	<0.05	0.3	0.037	0.05
H248622		120	18.5	8.8	<0.002	0.02	0.61	1.4	2	0.3	146.5	0.09	<0.05	0.4	0.052	0.10
H248623		70	12.9	4.9	<0.002	0.01	0.47	0.9	2	0.2	133.5	0.07	<0.05	0.3	0.033	0.06
H248624		130	16.2	7.6	0.006	>10.0	21.8	0.5	5	1.2	95.7	<0.05	0.84	0.5	0.009	0.11
H248625		60	7.2	3.4	<0.002	0.02	0.36	0.7	2	0.2	117.0	0.07	<0.05	0.2	0.025	0.03
H248626		140	9.7	8.3	<0.002	0.03	0.65	1.3	2	0.3	98.2	0.16	<0.05	0.6	0.058	0.09
H248627		320	7.1	16.2	<0.002	0.01	0.85	2.9	2	0.5	117.0	0.30	<0.05	0.9	0.148	0.15
H248628		240	16.1	18.9	<0.002	0.01	2.17	3.3	2	0.8	93.3	0.29	<0.05	1.0	0.147	0.24
H248629		160	51.1	14.5	<0.002	<0.01	1.33	2.7	2	0.8	173.5	0.20	<0.05	0.9	0.095	0.23
H248630		1500	66.9	66.0	<0.002	0.01	16.00	7.6	3	12.1	16.5	0.67	0.81	4.0	0.205	0.83
H248631		640	64.3	3.4	<0.002	0.03	18.10	1.5	4	284	6.7	0.07	0.83	0.3	0.013	0.06
H248632		630	554	52.2	0.002	0.02	12.60	6.4	3	93.0	9.7	0.29	0.82	3.0	0.158	0.49
H248633		350	181.5	8.6	<0.002	0.04	11.35	1.7	4	2.1	12.4	0.05	0.55	0.6	0.029	0.10
H248634		340	2.8	1.8	<0.002	0.03	0.07	0.3	2	0.4	46.0	<0.05	<0.05	0.2	<0.005	<0.02
H248635		320	150.0	5.7	<0.002	0.19	36.1	1.1	6	2.1	94.8	<0.05	0.86	0.7	0.022	0.30
H248636		2530	3670	102.5	<0.002	2.41	502	3.5	68	21.5	732	0.13	5.66	0.3	0.077	1.60
H248637		950	673	147.5	<0.002	3.56	173.5	2.5	15	2.7	1565	0.05	1.39	0.9	0.028	9.37

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 31-JUL-2009
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CERTIFICATE OF ANALYSIS VA09068430

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H248602		1.9	73	6.6	12.7	154	71.4
H248603		0.6	23	2.2	7.6	70	22.6
H248604		3.5	69	24.9	22.6	1360	34.9
H248605		0.5	3	0.2	0.9	18	0.7
H248606		0.3	18	2.0	5.6	109	18.5
H248607		0.7	4	34.9	4.5	10	6.3
H248608		0.4	15	1.5	4.7	40	17.1
H248609		0.3	13	7.5	5.5	186	14.6
H248610		0.4	13	15.9	6.3	226	15.0
H248611		0.3	11	3.1	5.2	189	12.3
H248612		0.4	17	19.5	7.7	161	16.2
H248613		0.3	11	3.6	6.1	432	9.0
H248614		0.2	10	1.7	6.1	74	8.3
H248615		1.8	110	8.3	12.5	69	75.2
H248616		3.2	119	8.7	21.0	504	131.0
H248617		2.9	95	12.5	17.3	881	107.0
H248618		4.6	177	5.6	18.3	46	170.0
H248619		2.4	273	8.5	12.8	215	105.5
H248620		1.6	232	8.5	14.7	94	71.8
H248621		0.2	7	0.6	4.4	59	5.1
H248622		0.2	10	1.3	5.1	188	7.3
H248623		0.1	7	0.9	4.6	103	4.6
H248624		0.8	4	221	7.3	144	3.2
H248625		0.1	4	0.8	4.0	46	4.2
H248626		0.2	11	1.3	5.2	83	9.0
H248627		0.5	29	1.2	9.8	92	18.3
H248628		0.9	24	1.8	11.2	168	24.3
H248629		0.2	16	7.5	8.3	249	11.9
H248630		2.7	106	51.4	39.1	476	94.0
H248631		2.5	7	3.3	6.5	184	9.5
H248632		3.7	48	6.3	17.4	1660	31.7
H248633		3.5	15	9.4	7.8	1020	10.9
H248634		0.5	2	0.1	1.0	19	0.6
H248635		5.2	8	40.7	2.6	519	7.4
H248636		1.6	11	272	0.8	130	42.8
H248637		3.9	27	164.5	6.6	530	24.7

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 31-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068430

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

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Finalized Date: 30-JUL-2009
This copy reported on 7-AUG-2009
Account: RCM

CERTIFICATE VA09068417

Project: RAU

P.O. No.: Batch 5

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: ATAC RESOURCES LTD.
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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H246948		5.34	0.14	2.13	8.29	736	750	2.41	25.0	4.29	3.30	80.3	33.6	72	12.00	21.8
H246949		4.58	0.06	0.03	7.93	106	1610	2.21	7.92	12.20	0.05	137.5	13.3	46	22.3	28.4
H246950		5.12	0.21	32.4	0.10	833	30	0.85	1250	12.15	34.5	48.5	1.8	2	0.44	60.2
H246951		3.42	0.02	0.52	0.06	78	20	0.22	6.91	18.35	1.66	6.22	0.7	2	0.59	13.7
H246952		4.42	0.38	5.14	0.10	1190	20	0.26	1930	4.11	7.13	137.5	3.1	1	0.23	203
H246953		5.74	0.14	14.90	0.04	2550	50	0.34	1010	1.75	67.8	>500	3.8	2	0.25	248
H246954		0.28	0.51	0.84	0.77	5840	130	0.22	97.5	13.00	0.19	33.8	5.9	11	2.03	32.4
H246955		8.22	0.13	13.55	0.03	2600	10	<0.05	330	0.83	19.05	49.1	3.4	2	0.28	71.4
H246956		7.02	0.19	13.25	0.03	2580	10	<0.05	397	0.86	40.6	171.5	3.0	2	0.25	106.0
H246957		3.70	0.23	9.51	0.02	2680	10	<0.05	414	0.72	39.7	132.5	2.7	<1	0.24	126.0
H246958		5.20	0.32	10.70	0.09	2500	20	<0.05	349	0.31	48.6	299	2.9	7	0.33	32.3
H246959		4.40	0.36	47.9	0.03	2540	80	0.35	646	2.62	150.0	30.6	3.2	<1	0.19	72.4
H246960		6.06	0.09	66.2	0.31	1670	30	0.05	482	3.67	91.4	68.6	1.7	5	0.27	103.5
H246961		2.80	<0.01	0.46	0.14	18	240	0.17	3.84	13.10	1.09	4.98	0.7	10	0.38	2.5
H246962		2.44	<0.01	0.83	0.20	9	5210	0.17	2.24	18.25	3.10	3.48	0.8	4	0.38	2.1
H246963		6.94	0.14	>100	0.03	1295	40	<0.05	816	0.83	220	20.2	3.1	2	0.11	419
H264964		0.28	5.71	0.71	0.11	>10000	30	<0.05	481	8.95	0.46	39.3	1.9	11	0.76	42.6
H246965		3.34	0.02	11.85	0.64	372	60	0.34	46.8	15.45	17.40	4.73	1.7	23	0.22	19.6
H246966		5.00	0.10	0.96	0.04	609	20	0.08	106.5	14.85	1.86	7.57	1.5	1	0.24	5.6
H246967		8.26	0.10	12.25	0.06	1855	10	<0.05	388	1.11	7.47	46.4	3.0	4	0.24	15.9
H246968		5.76	0.16	2.60	0.08	807	10	0.13	98.1	10.65	4.79	25.4	3.5	2	0.34	107.0
H246969		5.50	1.37	1.17	0.04	2400	10	<0.05	395	0.74	0.63	76.7	6.9	1	0.30	15.1
H246970		4.54	<0.01	0.20	0.06	123	20	0.15	10.65	17.65	0.41	49.4	0.8	2	0.36	2.7
H246971		2.20	0.01	0.13	0.06	205	10	0.12	6.22	16.95	0.20	5.33	0.8	2	0.40	2.9
H246972		4.42	<0.01	0.04	0.07	5	90	<0.05	0.44	19.05	0.11	1.37	0.9	1	0.14	2.1
H246973		4.80	0.02	0.11	0.05	175	10	0.14	15.10	17.45	0.13	5.11	0.8	1	0.24	2.2
H246974		3.96	0.01	0.76	0.06	72	20	0.19	6.58	17.85	1.81	3.08	0.7	2	0.21	2.0
H246975		5.46	<0.01	0.13	0.04	9	20	0.23	0.64	19.75	0.91	2.13	0.7	4	0.20	2.6
H246976		5.44	<0.01	0.11	0.09	11	30	0.26	0.42	19.05	0.65	3.65	0.7	3	0.19	2.4
H246977		5.18	<0.01	0.09	0.06	6	10	0.28	0.37	19.20	0.21	2.90	0.7	3	0.14	1.9
H246978		1.48	0.02	11.10	0.42	151	330	0.31	37.8	17.10	31.3	8.64	2.4	16	0.26	30.2
H246979		4.24	0.02	0.57	1.36	33	420	0.95	5.28	16.80	2.63	19.20	4.3	17	1.32	5.2
H246980		3.40	0.05	0.19	1.44	324	80	0.90	30.8	14.05	0.49	4.94	6.5	20	1.18	7.5
H246981		4.92	<0.01	0.05	0.18	29	40	0.13	0.04	19.80	0.06	2.99	1.2	1	0.33	2.9
H246982		5.72	<0.01	0.10	0.15	21	90	0.33	1.94	18.40	0.28	2.51	1.3	4	0.17	2.5
H246983		5.02	<0.01	0.23	0.15	16	370	0.21	1.44	17.95	2.05	2.42	1.1	4	0.22	2.8

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLE H246954**

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246948		9.22	33.8	0.22	2.1	<0.1	0.113	4.13	37.8	17.8	2.63	770	0.78	0.11	28.2	91.2
H246949		2.81	27.0	0.19	1.2	<0.1	0.061	4.41	71.5	31.1	2.33	1080	0.26	0.12	51.1	50.4
H246950		13.70	1.26	0.23	0.1	0.2	0.389	0.03	30.7	3.4	6.99	1960	0.73	0.01	0.5	6.2
H246951		2.37	0.57	0.05	<0.1	<0.1	0.037	0.02	3.2	4.3	11.70	1190	0.25	0.02	0.1	<0.2
H246952		27.7	1.58	0.19	<0.1	0.1	0.103	0.02	85.0	2.5	2.46	3490	0.08	0.01	0.3	5.0
H246953		37.0	4.60	1.02	0.1	0.1	0.477	0.01	630	1.6	0.50	2110	0.82	0.01	0.4	8.4
H246954		14.90	3.80	0.18	0.2	<0.1	0.070	0.40	19.7	4.0	6.70	2050	17.50	0.02	2.5	20.0
H246955		40.9	0.55	0.41	0.1	0.1	0.296	0.01	31.8	0.8	0.29	629	0.92	0.01	0.3	6.7
H246956		40.1	0.91	0.41	<0.1	0.1	0.567	0.01	112.5	0.8	0.30	778	0.44	0.01	0.2	6.3
H246957		40.6	0.81	0.43	<0.1	0.4	0.545	0.01	88.5	0.8	0.25	691	0.32	0.01	0.3	6.2
H246958		40.2	1.47	0.50	0.1	0.3	0.080	0.01	187.5	1.3	0.13	242	0.69	0.01	0.2	12.7
H246959		37.5	1.25	0.24	0.1	0.7	0.126	0.01	20.6	2.4	0.26	542	0.53	0.01	0.2	8.3
H246960		31.2	2.65	0.27	0.2	0.6	0.077	0.02	44.6	1.2	1.38	806	4.90	0.03	0.8	7.1
H246961		0.87	0.63	<0.05	0.1	<0.1	<0.005	0.04	2.9	2.6	7.04	1380	0.57	0.01	0.4	1.3
H246962		1.01	0.83	0.05	0.1	<0.1	<0.005	0.06	2.1	2.5	10.30	2120	0.81	<0.01	0.8	2.5
H246963		35.9	0.84	0.33	<0.1	1.5	0.054	0.01	9.2	0.8	0.32	391	0.70	<0.01	0.3	5.7
H264964		24.5	1.18	0.29	0.1	0.1	0.084	0.07	25.2	1.6	4.77	1460	10.55	<0.01	1.3	13.0
H246965		4.90	3.55	0.07	0.9	0.1	0.056	0.02	2.4	3.0	9.54	1200	1.40	0.07	1.6	11.4
H246966		9.79	0.33	0.15	<0.1	<0.1	0.024	0.01	4.2	2.6	9.46	839	1.28	0.01	0.1	3.6
H246967		40.8	0.76	0.39	<0.1	0.1	0.049	0.01	31.1	0.9	0.54	312	1.64	0.01	0.2	15.1
H246968		13.60	1.12	0.17	<0.1	0.1	0.521	0.02	15.0	2.5	6.52	2260	5.48	0.01	0.2	9.9
H246969		42.1	0.70	0.40	<0.1	<0.1	0.020	0.01	50.6	1.2	0.33	165	1.83	0.01	0.2	41.6
H246970		2.88	0.70	0.08	<0.1	<0.1	0.008	0.02	31.5	3.2	11.70	526	0.77	0.01	0.2	1.1
H246971		5.41	0.56	0.08	<0.1	<0.1	0.015	0.02	2.5	3.5	11.30	598	1.04	0.02	0.1	1.3
H246972		0.43	0.28	<0.05	<0.1	<0.1	<0.005	0.03	0.7	1.3	12.40	182	0.16	0.01	0.3	0.3
H246973		3.91	0.36	0.07	<0.1	<0.1	0.009	0.01	2.8	3.4	11.30	475	1.10	0.02	0.1	1.8
H246974		1.72	0.35	0.05	<0.1	0.02	0.012	0.01	1.6	3.9	11.65	627	0.29	0.02	0.2	1.7
H246975		0.30	0.24	<0.05	<0.1	0.01	0.007	0.02	1.3	4.1	12.50	459	0.21	0.02	0.1	3.0
H246976		0.47	0.64	0.05	<0.1	<0.01	0.010	0.01	1.7	4.5	12.45	645	1.79	0.02	0.3	2.3
H246977		0.29	0.41	0.05	<0.1	<0.01	0.008	0.01	1.5	5.2	12.55	574	0.44	0.02	0.2	2.0
H246978		4.94	3.28	0.08	0.4	0.15	0.049	0.02	4.6	3.3	10.20	3100	11.25	0.04	1.4	12.8
H246979		1.55	5.74	0.06	0.9	0.01	0.038	0.57	9.8	6.3	10.45	940	17.95	0.04	5.6	22.3
H246980		7.99	6.60	0.11	0.9	0.01	0.011	0.70	2.2	7.4	8.82	414	31.8	0.02	3.9	40.1
H246981		0.46	0.70	0.05	0.1	<0.01	<0.005	0.07	1.4	1.8	13.40	199	0.30	0.02	0.9	<0.2
H246982		0.60	0.74	<0.05	0.1	<0.01	0.006	0.06	1.4	3.6	12.05	323	6.72	0.01	0.7	7.3
H246983		0.52	0.79	0.05	0.1	0.01	0.010	0.06	1.4	2.8	11.80	553	4.82	0.01	0.6	6.7

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLE H246954**

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CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H246948		2580	215	225	0.007	7.57	3.53	17.4	5	11.5	80.5	1.68	0.33	5.5	0.899	1.62
H246949		1570	3.1	315	0.007	1.07	0.66	18.5	3	10.4	150.5	3.14	0.06	5.4	1.565	1.82
H246950		120	940	5.0	<0.002	>10.0	19.35	1.4	9	4.3	30.7	<0.05	3.70	0.2	0.006	0.30
H246951		190	88.5	3.1	0.005	1.84	1.53	0.5	4	1.0	51.5	<0.05	0.13	<0.2	<0.005	0.16
H246952		190	627	2.4	<0.002	>10.0	44.8	0.8	14	13.3	19.0	<0.05	5.54	0.2	0.005	0.31
H246953		720	1130	1.3	<0.002	>10.0	52.3	1.1	25	7.2	5.4	<0.05	3.89	1.3	<0.005	0.37
H246954		230	13.1	30.1	0.019	>10.0	4.85	1.9	7	3.3	84.3	0.15	0.22	0.7	0.071	0.27
H246955		230	1240	0.8	0.003	>10.0	6.76	0.1	12	4.2	2.7	<0.05	2.21	0.2	<0.005	0.43
H246956		160	1670	0.6	0.003	>10.0	12.95	0.1	10	4.1	2.4	<0.05	2.14	0.5	<0.005	0.69
H246957		120	1760	0.6	0.004	>10.0	12.00	0.1	11	3.3	2.0	<0.05	2.22	0.4	<0.005	0.78
H246958		210	2360	0.8	<0.002	>10.0	10.35	0.2	10	1.6	2.4	<0.05	2.42	0.6	<0.005	0.80
H246959		200	2880	0.6	<0.002	>10.0	17.90	0.4	13	3.5	7.4	<0.05	3.25	<0.2	<0.005	0.60
H246960		1020	2330	2.5	0.009	>10.0	15.90	0.2	9	2.9	13.8	0.05	2.67	0.5	0.015	0.62
H246961		400	26.0	4.0	0.003	0.37	0.86	0.5	3	0.3	46.3	<0.05	0.05	0.2	0.010	0.06
H246962		800	754	6.3	0.005	0.43	0.97	0.6	4	0.4	124.5	<0.05	0.05	0.3	0.014	0.14
H246963		40	>10000	0.4	<0.002	>10.0	37.6	0.1	14	10.2	42.9	<0.05	4.06	<0.2	<0.005	1.89
H264964		70	26.6	7.7	0.004	>10.0	24.9	0.5	10	2.4	59.2	0.07	1.64	0.4	0.007	0.17
H246965		510	1020	2.2	0.006	5.60	2.74	1.7	4	3.0	58.4	0.09	0.31	0.4	0.052	0.24
H246966		30	64.4	0.8	0.004	>10.0	2.63	0.5	5	0.3	53.6	<0.05	0.82	<0.2	<0.005	0.05
H246967		30	555	0.5	0.002	>10.0	9.50	0.1	9	0.6	3.9	<0.05	1.90	<0.2	<0.005	0.23
H246968		40	303	2.4	0.007	>10.0	11.30	0.9	7	2.2	29.0	<0.05	1.44	<0.2	<0.005	0.14
H246969		40	74.6	0.8	0.004	>10.0	7.41	0.1	9	0.5	3.6	<0.05	3.20	0.2	<0.005	0.10
H246970		50	24.6	2.2	0.003	3.31	0.62	0.5	2	0.3	59.2	<0.05	0.09	<0.2	<0.005	0.13
H246971		10	9.5	3.3	0.002	6.57	0.46	0.5	3	0.2	56.8	<0.05	0.14	<0.2	<0.005	0.04
H246972		200	3.9	1.2	<0.002	0.05	0.09	0.3	3	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	<0.02
H246973		30	5.8	0.9	0.002	4.59	0.76	0.3	3	0.2	58.1	<0.05	0.09	<0.2	<0.005	0.04
H246974		310	90.2	0.8	<0.002	1.92	0.49	0.3	3	0.3	66.7	<0.05	0.09	0.2	<0.005	0.06
H246975		40	56.4	1.5	<0.002	0.21	0.30	0.3	3	0.2	74.5	<0.05	0.06	<0.2	<0.005	0.03
H246976		50	27.6	0.5	<0.002	0.28	0.22	0.5	3	0.3	68.5	<0.05	0.05	<0.2	0.005	0.03
H246977		40	18.4	0.4	<0.002	0.16	0.16	0.3	2	0.2	60.2	<0.05	<0.05	<0.2	<0.005	0.02
H246978		210	874	1.2	0.021	4.77	4.28	0.8	4	4.0	73.3	0.08	0.09	0.4	0.038	0.21
H246979		640	190.5	43.4	0.026	1.50	1.20	3.6	3	5.4	72.6	0.34	0.06	2.2	0.122	0.55
H246980		570	12.5	38.6	0.053	9.66	2.36	2.2	6	1.4	67.1	0.25	0.11	0.8	0.077	0.68
H246981		250	6.3	3.1	<0.002	0.04	2.60	0.3	2	0.2	55.6	0.07	<0.05	0.3	0.008	0.02
H246982		30	21.0	4.7	0.023	0.58	0.35	0.5	3	0.6	71.5	<0.05	<0.05	0.2	0.012	0.10
H246983		20	76.0	5.5	0.018	0.41	0.51	0.5	3	0.5	74.5	<0.05	<0.05	0.2	0.011	0.09

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLE H246954**

***** See Appendix Page for comments regarding this certificate *****

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

Finalized Date: 30-JUL-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	As-OG62 As % 0.01
H246948		2.0	228	13.7	10.6	724	84.7				
H246949		1.6	189	12.2	16.7	59	53.5				
H246950		1.5	10	1.8	2.3	7440	1.9				
H246951		2.6	11	1.2	2.8	403	1.2				
H246952		7.9	13	2.6	2.5	1740	1.8				
H246953		16.3	4	334	11.1	>10000	2.4			1.480	
H246954		0.4	19	61.8	7.2	68	7.4				
H246955		4.9	1	1.7	1.3	4960	2.3				
H246956		2.6	1	1.2	1.5	9910	1.0				
H246957		1.8	<1	0.7	1.1	9880	0.6				
H246958		4.4	<1	0.7	1.7	>10000	1.7			1.215	
H246959		2.3	1	1.0	1.1	>10000	1.2			4.25	
H246960		11.6	16	4.6	2.1	>10000	9.0			2.31	
H246961		6.6	12	1.0	1.8	309	2.8				
H246962		14.2	25	1.6	2.8	808	4.9				
H246963		4.2	1	1.3	0.5	>10000	1.1	239	1.415	5.52	
H264964		0.5	6	36.4	4.7	128	5.6				5.02
H246965		4.7	28	3.0	2.5	3760	31.1				
H246966		2.3	12	12.5	3.5	395	0.9				
H246967		1.7	2	1.7	0.9	1580	0.6				
H246968		2.3	11	12.6	8.3	1080	1.3				
H246969		1.1	1	1.7	1.6	133	0.7				
H246970		3.6	14	1.3	3.6	110	1.1				
H246971		1.4	13	2.0	3.6	43	0.9				
H246972		0.5	5	0.1	1.0	16	<0.5				
H246973		3.2	13	0.9	2.1	22	0.9				
H246974		10.2	19	0.6	1.7	380	1.9				
H246975		2.8	18	0.3	1.1	200	1.0				
H246976		1.9	14	2.3	2.5	163	1.9				
H246977		2.8	15	0.8	1.5	60	1.6				
H246978		6.6	34	20.7	4.4	7350	13.2				
H246979		7.3	37	11.1	4.9	671	35.7				
H246980		5.9	47	8.3	2.7	184	31.9				
H246981		0.8	3	0.4	1.5	16	3.8				
H246982		2.0	19	3.5	1.1	79	3.8				
H246983		1.6	18	6.6	1.0	545	3.2				

Comments: **CORRECTED COPY FOR Au-AA26 ON SAMPLE H246954**

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068417

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE VA09068417

Project: RAU

P.O. No.: Batch 5

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H246948		5.34	0.14	2.13	8.29	736	750	2.41	25.0	4.29	3.30	80.3	33.6	72	12.00	21.8
H246949		4.58	0.06	0.03	7.93	106	1610	2.21	7.92	12.20	0.05	137.5	13.3	46	22.3	28.4
H246950		5.12	0.21	32.4	0.10	833	30	0.85	1250	12.15	34.5	48.5	1.8	2	0.44	60.2
H246951		3.42	0.02	0.52	0.06	78	20	0.22	6.91	18.35	1.66	6.22	0.7	2	0.59	13.7
H246952		4.42	0.38	5.14	0.10	1190	20	0.26	1930	4.11	7.13	137.5	3.1	1	0.23	203
H246953		5.74	0.14	14.90	0.04	2550	50	0.34	1010	1.75	67.8	>500	3.8	2	0.25	248
H246954		0.28	<0.01	0.84	0.77	5840	130	0.22	97.5	13.00	0.19	33.8	5.9	11	2.03	32.4
H246955		8.22	0.13	13.55	0.03	2600	10	<0.05	330	0.83	19.05	49.1	3.4	2	0.28	71.4
H246956		7.02	0.19	13.25	0.03	2580	10	<0.05	397	0.86	40.6	171.5	3.0	2	0.25	106.0
H246957		3.70	0.23	9.51	0.02	2680	10	<0.05	414	0.72	39.7	132.5	2.7	<1	0.24	126.0
H246958		5.20	0.32	10.70	0.09	2500	20	<0.05	349	0.31	48.6	299	2.9	7	0.33	32.3
H246959		4.40	0.36	47.9	0.03	2540	80	0.35	646	2.62	150.0	30.6	3.2	<1	0.19	72.4
H246960		6.06	0.09	66.2	0.31	1670	30	0.05	482	3.67	91.4	68.6	1.7	5	0.27	103.5
H246961		2.80	<0.01	0.46	0.14	18	240	0.17	3.84	13.10	1.09	4.98	0.7	10	0.38	2.5
H246962		2.44	<0.01	0.83	0.20	9	5210	0.17	2.24	18.25	3.10	3.48	0.8	4	0.38	2.1
H246963		6.94	0.14	>100	0.03	1295	40	<0.05	816	0.83	220	20.2	3.1	2	0.11	419
H264964		0.28	5.71	0.71	0.11	>10000	30	<0.05	481	8.95	0.46	39.3	1.9	11	0.76	42.6
H246965		3.34	0.02	11.85	0.64	372	60	0.34	46.8	15.45	17.40	4.73	1.7	23	0.22	19.6
H246966		5.00	0.10	0.96	0.04	609	20	0.08	106.5	14.85	1.86	7.57	1.5	1	0.24	5.6
H246967		8.26	0.10	12.25	0.06	1855	10	<0.05	388	1.11	7.47	46.4	3.0	4	0.24	15.9
H246968		5.76	0.16	2.60	0.08	807	10	0.13	98.1	10.65	4.79	25.4	3.5	2	0.34	107.0
H246969		5.50	1.37	1.17	0.04	2400	10	<0.05	395	0.74	0.63	76.7	6.9	1	0.30	15.1
H246970		4.54	<0.01	0.20	0.06	123	20	0.15	10.65	17.65	0.41	49.4	0.8	2	0.36	2.7
H246971		2.20	0.01	0.13	0.06	205	10	0.12	6.22	16.95	0.20	5.33	0.8	2	0.40	2.9
H246972		4.42	<0.01	0.04	0.07	5	90	<0.05	0.44	19.05	0.11	1.37	0.9	1	0.14	2.1
H246973		4.80	0.02	0.11	0.05	175	10	0.14	15.10	17.45	0.13	5.11	0.8	1	0.24	2.2
H246974		3.96	0.01	0.76	0.06	72	20	0.19	6.58	17.85	1.81	3.08	0.7	2	0.21	2.0
H246975		5.46	<0.01	0.13	0.04	9	20	0.23	0.64	19.75	0.91	2.13	0.7	4	0.20	2.6
H246976		5.44	<0.01	0.11	0.09	11	30	0.26	0.42	19.05	0.65	3.65	0.7	3	0.19	2.4
H246977		5.18	<0.01	0.09	0.06	6	10	0.28	0.37	19.20	0.21	2.90	0.7	3	0.14	1.9
H246978		1.48	0.02	11.10	0.42	151	330	0.31	37.8	17.10	31.3	8.64	2.4	16	0.26	30.2
H246979		4.24	0.02	0.57	1.36	33	420	0.95	5.28	16.80	2.63	19.20	4.3	17	1.32	5.2
H246980		3.40	0.05	0.19	1.44	324	80	0.90	30.8	14.05	0.49	4.94	6.5	20	1.18	7.5
H246981		4.92	<0.01	0.05	0.18	29	40	0.13	0.04	19.80	0.06	2.99	1.2	1	0.33	2.9
H246982		5.72	<0.01	0.10	0.15	21	90	0.33	1.94	18.40	0.28	2.51	1.3	4	0.17	2.5
H246983		5.02	<0.01	0.23	0.15	16	370	0.21	1.44	17.95	2.05	2.42	1.1	4	0.22	2.8

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Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246948		9.22	33.8	0.22	2.1	<0.1	0.113	4.13	37.8	17.8	2.63	770	0.78	0.11	28.2	91.2
H246949		2.81	27.0	0.19	1.2	<0.1	0.061	4.41	71.5	31.1	2.33	1080	0.26	0.12	51.1	50.4
H246950		13.70	1.26	0.23	0.1	0.2	0.389	0.03	30.7	3.4	6.99	1960	0.73	0.01	0.5	6.2
H246951		2.37	0.57	0.05	<0.1	<0.1	0.037	0.02	3.2	4.3	11.70	1190	0.25	0.02	0.1	<0.2
H246952		27.7	1.58	0.19	<0.1	0.1	0.103	0.02	85.0	2.5	2.46	3490	0.08	0.01	0.3	5.0
H246953		37.0	4.60	1.02	0.1	0.1	0.477	0.01	630	1.6	0.50	2110	0.82	0.01	0.4	8.4
H246954		14.90	3.80	0.18	0.2	<0.1	0.070	0.40	19.7	4.0	6.70	2050	17.50	0.02	2.5	20.0
H246955		40.9	0.55	0.41	0.1	0.1	0.296	0.01	31.8	0.8	0.29	629	0.92	0.01	0.3	6.7
H246956		40.1	0.91	0.41	<0.1	0.1	0.567	0.01	112.5	0.8	0.30	778	0.44	0.01	0.2	6.3
H246957		40.6	0.81	0.43	<0.1	0.4	0.545	0.01	88.5	0.8	0.25	691	0.32	0.01	0.3	6.2
H246958		40.2	1.47	0.50	0.1	0.3	0.080	0.01	187.5	1.3	0.13	242	0.69	0.01	0.2	12.7
H246959		37.5	1.25	0.24	0.1	0.7	0.126	0.01	20.6	2.4	0.26	542	0.53	0.01	0.2	8.3
H246960		31.2	2.65	0.27	0.2	0.6	0.077	0.02	44.6	1.2	1.38	806	4.90	0.03	0.8	7.1
H246961		0.87	0.63	<0.05	0.1	<0.1	<0.005	0.04	2.9	2.6	7.04	1380	0.57	0.01	0.4	1.3
H246962		1.01	0.83	0.05	0.1	<0.1	<0.005	0.06	2.1	2.5	10.30	2120	0.81	<0.01	0.8	2.5
H246963		35.9	0.84	0.33	<0.1	1.5	0.054	0.01	9.2	0.8	0.32	391	0.70	<0.01	0.3	5.7
H264964		24.5	1.18	0.29	0.1	0.1	0.084	0.07	25.2	1.6	4.77	1460	10.55	<0.01	1.3	13.0
H246965		4.90	3.55	0.07	0.9	0.1	0.056	0.02	2.4	3.0	9.54	1200	1.40	0.07	1.6	11.4
H246966		9.79	0.33	0.15	<0.1	<0.1	0.024	0.01	4.2	2.6	9.46	839	1.28	0.01	0.1	3.6
H246967		40.8	0.76	0.39	<0.1	0.1	0.049	0.01	31.1	0.9	0.54	312	1.64	0.01	0.2	15.1
H246968		13.60	1.12	0.17	<0.1	0.1	0.521	0.02	15.0	2.5	6.52	2260	5.48	0.01	0.2	9.9
H246969		42.1	0.70	0.40	<0.1	<0.1	0.020	0.01	50.6	1.2	0.33	165	1.83	0.01	0.2	41.6
H246970		2.88	0.70	0.08	<0.1	<0.1	0.008	0.02	31.5	3.2	11.70	526	0.77	0.01	0.2	1.1
H246971		5.41	0.56	0.08	<0.1	<0.1	0.015	0.02	2.5	3.5	11.30	598	1.04	0.02	0.1	1.3
H246972		0.43	0.28	<0.05	<0.1	<0.1	<0.005	0.03	0.7	1.3	12.40	182	0.16	0.01	0.3	0.3
H246973		3.91	0.36	0.07	<0.1	<0.1	0.009	0.01	2.8	3.4	11.30	475	1.10	0.02	0.1	1.8
H246974		1.72	0.35	0.05	<0.1	0.02	0.012	0.01	1.6	3.9	11.65	627	0.29	0.02	0.2	1.7
H246975		0.30	0.24	<0.05	<0.1	0.01	0.007	0.02	1.3	4.1	12.50	459	0.21	0.02	0.1	3.0
H246976		0.47	0.64	0.05	<0.1	<0.01	0.010	0.01	1.7	4.5	12.45	645	1.79	0.02	0.3	2.3
H246977		0.29	0.41	0.05	<0.1	<0.01	0.008	0.01	1.5	5.2	12.55	574	0.44	0.02	0.2	2.0
H246978		4.94	3.28	0.08	0.4	0.15	0.049	0.02	4.6	3.3	10.20	3100	11.25	0.04	1.4	12.8
H246979		1.55	5.74	0.06	0.9	0.01	0.038	0.57	9.8	6.3	10.45	940	17.95	0.04	5.6	22.3
H246980		7.99	6.60	0.11	0.9	0.01	0.011	0.70	2.2	7.4	8.82	414	31.8	0.02	3.9	40.1
H246981		0.46	0.70	0.05	0.1	<0.01	<0.005	0.07	1.4	1.8	13.40	199	0.30	0.02	0.9	<0.2
H246982		0.60	0.74	<0.05	0.1	<0.01	0.006	0.06	1.4	3.6	12.05	323	6.72	0.01	0.7	7.3
H246983		0.52	0.79	0.05	0.1	0.01	0.010	0.06	1.4	2.8	11.80	553	4.82	0.01	0.6	6.7

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Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H246948		2580	215	225	0.007	7.57	3.53	17.4	5	11.5	80.5	1.68	0.33	5.5	0.899	1.62
H246949		1570	3.1	315	0.007	1.07	0.66	18.5	3	10.4	150.5	3.14	0.06	5.4	1.565	1.82
H246950		120	940	5.0	<0.002	>10.0	19.35	1.4	9	4.3	30.7	<0.05	3.70	0.2	0.006	0.30
H246951		190	88.5	3.1	0.005	1.84	1.53	0.5	4	1.0	51.5	<0.05	0.13	<0.2	<0.005	0.16
H246952		190	627	2.4	<0.002	>10.0	44.8	0.8	14	13.3	19.0	<0.05	5.54	0.2	0.005	0.31
H246953		720	1130	1.3	<0.002	>10.0	52.3	1.1	25	7.2	5.4	<0.05	3.89	1.3	<0.005	0.37
H246954		230	13.1	30.1	0.019	>10.0	4.85	1.9	7	3.3	84.3	0.15	0.22	0.7	0.071	0.27
H246955		230	1240	0.8	0.003	>10.0	6.76	0.1	12	4.2	2.7	<0.05	2.21	0.2	<0.005	0.43
H246956		160	1670	0.6	0.003	>10.0	12.95	0.1	10	4.1	2.4	<0.05	2.14	0.5	<0.005	0.69
H246957		120	1760	0.6	0.004	>10.0	12.00	0.1	11	3.3	2.0	<0.05	2.22	0.4	<0.005	0.78
H246958		210	2360	0.8	<0.002	>10.0	10.35	0.2	10	1.6	2.4	<0.05	2.42	0.6	<0.005	0.80
H246959		200	2880	0.6	<0.002	>10.0	17.90	0.4	13	3.5	7.4	<0.05	3.25	<0.2	<0.005	0.60
H246960		1020	2330	2.5	0.009	>10.0	15.90	0.2	9	2.9	13.8	0.05	2.67	0.5	0.015	0.62
H246961		400	26.0	4.0	0.003	0.37	0.86	0.5	3	0.3	46.3	<0.05	0.05	0.2	0.010	0.06
H246962		800	754	6.3	0.005	0.43	0.97	0.6	4	0.4	124.5	<0.05	0.05	0.3	0.014	0.14
H246963		40	>10000	0.4	<0.002	>10.0	37.6	0.1	14	10.2	42.9	<0.05	4.06	<0.2	<0.005	1.89
H264964		70	26.6	7.7	0.004	>10.0	24.9	0.5	10	2.4	59.2	0.07	1.64	0.4	0.007	0.17
H246965		510	1020	2.2	0.006	5.60	2.74	1.7	4	3.0	58.4	0.09	0.31	0.4	0.052	0.24
H246966		30	64.4	0.8	0.004	>10.0	2.63	0.5	5	0.3	53.6	<0.05	0.82	<0.2	<0.005	0.05
H246967		30	555	0.5	0.002	>10.0	9.50	0.1	9	0.6	3.9	<0.05	1.90	<0.2	<0.005	0.23
H246968		40	303	2.4	0.007	>10.0	11.30	0.9	7	2.2	29.0	<0.05	1.44	<0.2	<0.005	0.14
H246969		40	74.6	0.8	0.004	>10.0	7.41	0.1	9	0.5	3.6	<0.05	3.20	0.2	<0.005	0.10
H246970		50	24.6	2.2	0.003	3.31	0.62	0.5	2	0.3	59.2	<0.05	0.09	<0.2	<0.005	0.13
H246971		10	9.5	3.3	0.002	6.57	0.46	0.5	3	0.2	56.8	<0.05	0.14	<0.2	<0.005	0.04
H246972		200	3.9	1.2	<0.002	0.05	0.09	0.3	3	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	<0.02
H246973		30	5.8	0.9	0.002	4.59	0.76	0.3	3	0.2	58.1	<0.05	0.09	<0.2	<0.005	0.04
H246974		310	90.2	0.8	<0.002	1.92	0.49	0.3	3	0.3	66.7	<0.05	0.09	0.2	<0.005	0.06
H246975		40	56.4	1.5	<0.002	0.21	0.30	0.3	3	0.2	74.5	<0.05	0.06	<0.2	<0.005	0.03
H246976		50	27.6	0.5	<0.002	0.28	0.22	0.5	3	0.3	68.5	<0.05	0.05	<0.2	0.005	0.03
H246977		40	18.4	0.4	<0.002	0.16	0.16	0.3	2	0.2	60.2	<0.05	<0.05	<0.2	<0.005	0.02
H246978		210	874	1.2	0.021	4.77	4.28	0.8	4	4.0	73.3	0.08	0.09	0.4	0.038	0.21
H246979		640	190.5	43.4	0.026	1.50	1.20	3.6	3	5.4	72.6	0.34	0.06	2.2	0.122	0.55
H246980		570	12.5	38.6	0.053	9.66	2.36	2.2	6	1.4	67.1	0.25	0.11	0.8	0.077	0.68
H246981		250	6.3	3.1	<0.002	0.04	2.60	0.3	2	0.2	55.6	0.07	<0.05	0.3	0.008	0.02
H246982		30	21.0	4.7	0.023	0.58	0.35	0.5	3	0.6	71.5	<0.05	<0.05	0.2	0.012	0.10
H246983		20	76.0	5.5	0.018	0.41	0.51	0.5	3	0.5	74.5	<0.05	<0.05	0.2	0.011	0.09

***** See Appendix Page for comments regarding this certificate *****

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Project: RAU

Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068417

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Zn-OG62	As-OG62
	Analyte	U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.01
H246948		2.0	228	13.7	10.6	724	84.7				
H246949		1.6	189	12.2	16.7	59	53.5				
H246950		1.5	10	1.8	2.3	7440	1.9				
H246951		2.6	11	1.2	2.8	403	1.2				
H246952		7.9	13	2.6	2.5	1740	1.8				
H246953		16.3	4	334	11.1	>10000	2.4			1.480	
H246954		0.4	19	61.8	7.2	68	7.4				
H246955		4.9	1	1.7	1.3	4960	2.3				
H246956		2.6	1	1.2	1.5	9910	1.0				
H246957		1.8	<1	0.7	1.1	9880	0.6				
H246958		4.4	<1	0.7	1.7	>10000	1.7			1.215	
H246959		2.3	1	1.0	1.1	>10000	1.2			4.25	
H246960		11.6	16	4.6	2.1	>10000	9.0			2.31	
H246961		6.6	12	1.0	1.8	309	2.8				
H246962		14.2	25	1.6	2.8	808	4.9				
H246963		4.2	1	1.3	0.5	>10000	1.1	239	1.415	5.52	
H264964		0.5	6	36.4	4.7	128	5.6				5.02
H246965		4.7	28	3.0	2.5	3760	31.1				
H246966		2.3	12	12.5	3.5	395	0.9				
H246967		1.7	2	1.7	0.9	1580	0.6				
H246968		2.3	11	12.6	8.3	1080	1.3				
H246969		1.1	1	1.7	1.6	133	0.7				
H246970		3.6	14	1.3	3.6	110	1.1				
H246971		1.4	13	2.0	3.6	43	0.9				
H246972		0.5	5	0.1	1.0	16	<0.5				
H246973		3.2	13	0.9	2.1	22	0.9				
H246974		10.2	19	0.6	1.7	380	1.9				
H246975		2.8	18	0.3	1.1	200	1.0				
H246976		1.9	14	2.3	2.5	163	1.9				
H246977		2.8	15	0.8	1.5	60	1.6				
H246978		6.6	34	20.7	4.4	7350	13.2				
H246979		7.3	37	11.1	4.9	671	35.7				
H246980		5.9	47	8.3	2.7	184	31.9				
H246981		0.8	3	0.4	1.5	16	3.8				
H246982		2.0	19	3.5	1.1	79	3.8				
H246983		1.6	18	6.6	1.0	545	3.2				

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068417

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 10-JUL-2009
Account: RCM

CERTIFICATE VA09068033

Project: RAU

P.O. No.: RAU09-19

This report is for 17 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
As-OG46	Ore Grade As - Aqua Regia	VARIABLE
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 10-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09068033

Sample Description	Method / Analyte / Units / LOR	As-OG46 As % 0.01
H246805		5.60
H246806		8.07
H246808		4.44
H246809		7.06
H246810		7.81
H246811		23.6
H246813		6.64
H246814		5.50
H246815		3.11
H246816		4.25
H246817		3.74
H246818		2.49
H246819		1.91
H246820		3.03
H246821		3.00
H246822		2.36
H246825		2.58

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Finalized Date: 10-JUL-2009
Account: RCM

CERTIFICATE VA09067897

Project: RAU

P.O. No.:

This report is for 3 Soil samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Pb-OG46	Ore Grade Pb - Aqua Regia	VARIABLE
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

To: ATAC RESOURCES LTD.
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 10-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09067897

Sample Description	Method Analyte Units LOR	Pb-OG46 Pb % 0.001	Zn-OG46 Zn % 0.001
CC49714		1.070	
CC49720			1.370
CC49740		1.185	

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Finalized Date: 13-JUL-2009
Account: RCM

CERTIFICATE VA09067896

Project: RAU

P.O. No.:

This report is for 5 Rock samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Zn-VOL50	Zn by titration	

To: ATAC RESOURCES LTD.
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 13-JUL-2009
Account: RCM

Project: RAU

CERTIFICATE OF ANALYSIS VA09067896

Sample Description	Method	Pb-OG62	Zn-OG62	Zn-VOL50
	Analyte	Pb	Zn	Zn
	Units	%	%	%
	LOR	0.001	0.001	0.01
H247454			1.235	
H247460			1.375	
H247468			1.285	
H247469			2.56	
H247475		1.420	>30.0	37.75

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Finalized Date: 6-JUL-2009
Account: RCM

CERTIFICATE VA09064974

Project: RAU

P.O. No.: Batch 2

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09064974

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H246838		3.62	0.03	0.14	0.68	56	230	0.26	1.56	32	1.22	13.95	4.5	23	1.48	8
H246839		2.82	0.08	0.24	0.9	206	330	0.47	12.2	26.8	0.8	12.4	7.3	24	4.94	4.6
H246840		3.86	0.01	0.41	0.54	78	170	0.33	6.69	20.6	1.49	9.55	3.7	16	1.05	4.6
H246841		3.02	0.02	3.35	1.36	586	690	0.54	48.8	21.5	17.05	21.2	10.3	37	3.8	21
H246842		1.50	0.06	3.37	1.44	184	470	0.67	16.45	24	15	25.1	8.9	43	6.18	11.5
H246843		2.46	0.02	1.83	0.79	417	510	0.41	16.95	23.5	8.5	12.75	7.1	16	2.26	7.3
H246844		4.18	<0.01	0.02	0.07	<5	10	0.06	0.12	19.8	0.07	1.31	0.9	1	0.15	1.7
H246845		1.72	0.02	2.63	0.84	468	700	0.29	25.3	23.1	14.55	12.2	7.9	16	1.2	8.9
H246846		2.48	0.02	1.01	0.58	302	200	0.27	18.4	19.55	3.93	10.15	3.2	15	0.5	11.4
H246847		3.92	0.02	0.77	0.61	91	190	0.33	8.6	19.15	1.22	8.92	2.9	18	1.25	7.4
H246848		4.00	0.03	1.72	0.93	408	150	0.37	383	17.45	2.1	9.88	3.9	31	0.1	7.3
H246849		0.28	0.50	0.78	0.76	5760	120	0.28	92.1	12.75	0.16	33.4	5.3	13	2.18	28.9
H246850		4.20	0.04	0.86	0.96	359	200	0.37	22.7	19.35	1.34	9.6	3	30	1.04	5.8
H246853		2.50	0.13	1.99	0.11	901	480	0.06	191	18.1	3.13	6.81	2.1	7	0.17	4.6
H246854		3.46	0.05	0.65	0.85	271	200	0.41	11.65	21.7	0.94	11.05	3.4	30	0.51	6.6
H246855		3.56	0.03	0.27	0.79	182	320	0.48	4.33	19.95	0.8	9.64	1.8	20	1.27	4
H246856		5.56	0.05	0.7	0.62	45	250	0.43	5.33	18.85	3.73	8.78	3.1	17	0.94	3.3
H246857		2.42	0.04	0.64	0.61	28	360	0.42	5.22	18.95	3.51	8.26	3.1	16	0.92	3.5
H246858		5.10	0.04	0.63	1.1	22	170	0.59	10.95	18.7	1.11	13.1	5.1	27	1.89	4
H246859		4.54	0.02	0.77	0.57	32	150	0.35	6.47	19.5	2.02	9.3	2.7	17	0.84	2.9
H246860		4.82	0.02	1.03	0.5	67	8150	0.39	3.97	19.55	5	7.85	2	13	0.5	2.7
H246861		4.98	0.01	0.47	0.45	20	1110	0.31	3	19.95	2.16	7.45	1.8	10	0.38	2.3
H246862		3.46	0.01	0.55	0.56	31	390	0.32	4.66	20.5	1.56	8.91	2.2	14	0.62	3.4
H246863		4.20	0.07	0.48	0.78	44	180	0.48	8.99	20.1	1.32	9.4	3.6	21	1.08	3.6
H246864		5.24	0.02	0.26	0.54	47	120	0.37	3.61	20.5	0.83	11.3	2.9	14	0.72	2.9
H246865		2.80	0.05	1.53	0.75	136	230	0.55	9.1	20.2	2.92	11.2	3.9	19	0.79	4.5
H246866		0.28	5.49	0.34	0.11	>10000	30	<0.05	449	8.58	0.06	35.3	1.6	11	0.82	35.1
H246867		0.60	0.08	2.44	1.01	244	1250	0.57	9.09	22.2	9.78	7.71	4.1	24	1.36	5.2
H246868		4.80	0.02	0.43	0.54	49	350	0.37	3.07	21.5	3.25	7.07	3	13	1.01	3
H246869		3.96	<0.01	0.01	0.07	5	20	0.06	0.09	19.75	0.06	1.32	0.9	1	0.17	1.4
H246870		2.56	0.08	0.24	1.3	20	210	0.7	6.77	16.55	0.56	15.55	4.5	21	2.1	6.3
H246871		2.06	0.10	2.56	1.82	310	270	1.22	14.15	15.05	5.31	11.35	5.6	24	0.72	9.8
H246872		2.08	0.04	1.67	3.55	277	130	0.68	8.32	9.53	3.97	5.74	1.4	48	0.13	5.7
H246873		2.72	0.10	4.57	2.52	432	460	0.61	16.55	21.1	0.57	26.6	13.6	89	2.7	24.4
H246874		6.62	0.02	0.07	0.23	199	110	0.12	3.43	34	0.22	3.86	1.3	6	0.5	1.5
H246875		6.16	0.15	0.37	0.4	1280	200	0.15	26	32.3	0.55	7.55	2.7	8	1.1	3.3

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Project: RAU

Finalized Date: 6-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09064974

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246838		0.97	2.16	0.07	0.4	0.01	0.037	0.32	9.9	2.5	0.41	602	0.33	0.01	4.5	10.1
H246839		3.38	4.78	0.08	0.5	0.01	0.021	0.34	7.8	3.4	1.47	1570	0.67	0.01	4.6	20.4
H246840		2.3	2.61	0.06	0.3	0.01	0.05	0.2	6	2.1	7.15	1520	0.55	0.02	2.7	10.5
H246841		8.63	5.56	0.1	0.6	0.05	0.141	0.29	11.6	5.7	2.05	3440	2.13	0.04	6.1	42.2
H246842		3.53	6.64	0.08	0.8	0.04	0.07	0.52	16.3	5.1	3.01	1630	0.88	0.04	8.3	30.1
H246843		6.03	4.22	0.08	0.5	0.02	0.074	0.25	7.7	2.4	3.39	2770	1.99	0.03	4.1	17.7
H246844		0.39	0.28	0.15	<0.1	<0.01	<0.005	0.03	0.7	1.2	12.45	177	0.15	<0.01	0.3	2.4
H246845		7.28	4.54	0.09	0.5	0.02	0.068	0.12	6.5	2.2	1.09	3930	2.63	0.05	3.2	23.3
H246846		3.28	3.37	0.06	0.5	0.01	0.084	0.07	5.4	1.8	6.55	1970	1	0.04	3.1	10
H246847		3.31	3.64	0.05	0.4	0.01	0.081	0.17	4.7	2.1	6.25	1905	0.82	0.03	2.9	8.8
H246848		6.68	5.73	0.08	0.8	0.01	0.058	0.02	5.1	2	7.86	1630	1.26	0.09	4.3	12.3
H246849		14.2	3.6	0.17	0.2	<0.01	0.075	0.39	20.5	4.5	6.64	1980	17	0.02	3.6	21.2
H246850		4.3	6.09	0.06	0.7	0.01	0.061	0.09	4.5	1.8	5.36	1850	1.03	0.07	4.8	9
H246853		13.4	0.85	0.11	0.1	0.01	0.104	0.02	2.6	0.5	0.21	3200	3.57	0.01	0.5	7.4
H246854		6.08	5.31	0.07	0.7	0.01	0.167	0.09	5.3	2.1	6.17	2030	0.85	0.06	4.2	8.9
H246855		4.52	4.65	0.06	0.5	0.01	0.084	0.31	5	3.2	8.82	1740	0.45	0.02	3.2	4.5
H246856		2.12	2.77	0.05	0.4	0.02	0.132	0.29	6.2	2.9	10.4	1885	0.4	0.01	3.8	9.7
H246857		2.01	2.68	0.05	0.4	0.01	0.121	0.28	5.8	2.9	10.3	1825	0.39	0.01	3.7	8.8
H246858		1.52	4.05	0.07	0.6	0.01	0.021	0.55	9.4	4.4	10.25	1065	0.33	0.01	7.3	16.3
H246859		1.51	2.5	0.06	0.3	0.01	0.017	0.23	6.2	2.8	11	1285	0.23	0.01	3.6	7.9
H246860		2.13	2.76	0.05	0.3	0.02	0.029	0.19	5.2	3.1	9.92	1525	0.34	<0.01	2.6	5.3
H246861		1.24	2.37	0.05	0.3	0.01	0.012	0.13	5.8	3.1	11.4	1015	0.18	0.02	2.8	4.8
H246862		1.89	2.65	0.06	0.3	0.01	0.034	0.24	5.4	2.9	10.1	1830	0.23	0.01	3.1	6
H246863		1.79	3.05	0.06	0.5	0.01	0.041	0.36	6.6	3.6	10.35	1210	0.29	0.01	4.9	11.8
H246864		1.46	2.01	0.06	0.3	0.01	0.023	0.27	9	2.8	10.85	843	0.25	0.01	3.4	8.1
H246865		2.78	3.16	0.06	0.4	0.01	0.017	0.35	8.2	2.3	8.45	991	0.48	0.01	4.1	10.6
H246866		22.9	1.02	0.24	0.1	0.01	0.077	0.07	24.7	1.6	4.66	1390	10.3	<0.01	1.4	12.8
H246867		3.66	4.41	0.06	0.6	0.04	0.015	0.46	5.6	2.2	6.29	1270	0.73	0.01	5.4	11.6
H246868		1.2	2.11	0.05	0.3	0.01	0.012	0.24	5.9	2.3	9.44	1000	0.22	0.01	3.3	8.4
H246869		0.38	0.31	0.23	<0.1	<0.01	<0.005	0.03	0.6	1.2	12.55	181	0.07	<0.01	0.4	2.5
H246870		1.48	4.74	0.11	0.8	0.01	0.07	0.7	13.1	5.1	9.87	764	0.45	0.01	8.8	16.1
H246871		5.31	12.55	0.08	1.2	0.02	0.302	0.32	7.3	3.5	7.6	2720	0.91	0.11	6.8	21.3
H246872		6.53	27.1	0.08	1.6	0.01	0.143	0.07	3	4.5	5.54	1225	1.2	0.34	5	4.1
H246873		3.31	6.89	0.08	0.8	0.01	0.038	0.53	15.2	14.2	2.3	723	4.34	0.45	10.7	59.8
H246874		0.73	0.64	<0.05	0.1	<0.01	0.009	0.1	3.7	0.9	0.37	253	0.13	0.01	1.4	3.3
H246875		3.33	1.18	0.05	0.2	<0.01	0.021	0.17	6.4	1.5	0.27	920	0.41	0.01	2.1	7.4

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Project: RAU

Finalized Date: 6-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09064974

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H246838		230	19.2	17.2	<0.002	<0.01	1.5	2.1	2	0.7	155	0.24	0.07	0.8	0.116	0.18
H246839		320	9	41.8	<0.002	<0.01	0.92	2.6	2	1.6	24.9	0.26	0.23	0.8	0.121	0.51
H246840		190	22.2	31.2	<0.002	0.01	0.64	2.1	2	2.4	46.2	0.15	0.17	0.6	0.071	0.23
H246841		550	96.7	25.4	<0.002	0.01	3.64	4.9	2	5.6	23.7	0.34	0.26	1.4	0.145	0.59
H246842		500	54.9	60	<0.002	0.01	1.57	4.3	2	8.2	27	0.46	0.24	1.7	0.207	0.63
H246843		430	33.1	41	<0.002	0.01	1.7	2.5	2	5.2	27.8	0.22	0.3	0.8	0.104	0.52
H246844		230	7.4	1.4	<0.002	0.01	0.06	0.3	2	<0.2	45.4	<0.05	<0.05	<0.2	<0.005	<0.02
H246845		360	75.8	8	<0.002	0.01	2.19	3	2	1.9	23.9	0.18	0.27	0.5	0.08	0.47
H246846		330	59.2	9.7	<0.002	0.01	3.07	1.8	2	3.4	63.7	0.16	0.36	0.6	0.081	0.17
H246847		270	38.7	30	<0.002	0.01	1.07	2.2	2	4.5	53	0.16	0.29	1	0.08	0.14
H246848		500	84.4	1.5	<0.002	0.02	7.26	2.8	2	3.7	54.1	0.23	1.05	0.9	0.116	0.04
H246849		230	15.4	33.5	0.016	>10.0	4.69	1.7	6	3.2	83.9	0.21	0.2	0.8	0.091	0.27
H246850		830	32.6	17.4	<0.002	0.02	0.95	3.4	2	3.4	41.5	0.25	0.51	1	0.13	0.13
H246853		380	101	2.9	<0.002	0.01	4.11	4.4	3	1.2	15.6	<0.05	0.47	<0.2	0.011	0.11
H246854		530	37.1	14.6	<0.002	0.02	0.71	3.9	2	4.6	68.4	0.22	0.29	1.3	0.109	0.08
H246855		370	33.1	29.2	<0.002	0.01	0.88	2.1	2	3.7	103	0.17	0.07	0.6	0.082	0.15
H246856		200	32.9	26.8	<0.002	0.02	1.04	1.6	2	3.3	98.6	0.21	<0.05	0.6	0.096	0.21
H246857		190	31.5	26.1	<0.002	0.02	0.78	1.6	2	3	99.4	0.19	<0.05	0.6	0.088	0.2
H246858		350	30.7	42.8	<0.002	0.02	1.04	2.8	2	1.7	90.1	0.4	0.05	1.1	0.186	0.32
H246859		200	39.2	18.9	<0.002	0.02	0.88	2.1	2	1.2	92.6	0.19	0.18	0.5	0.092	0.15
H246860		170	55	13.3	<0.002	0.23	1.57	1.8	2	1.4	117	0.14	0.19	0.3	0.069	0.15
H246861		150	29.9	9.6	<0.002	0.05	0.61	1.5	2	1	83	0.15	0.13	0.4	0.073	0.09
H246862		230	42	16.4	<0.002	0.02	0.62	2.2	2	1.7	99.9	0.17	0.12	0.5	0.08	0.14
H246863		250	38.9	29.1	<0.002	0.02	0.8	2.1	2	3.2	94.9	0.26	0.06	0.8	0.127	0.22
H246864		190	24.4	19.5	<0.002	0.01	0.52	1.7	2	0.9	91.4	0.19	0.05	0.6	0.089	0.15
H246865		240	90.8	20.8	<0.002	0.02	0.87	2.4	2	1.1	82.7	0.22	0.09	0.7	0.107	0.17
H246866		70	9.7	8.4	0.002	>10.0	24.1	0.3	9	2.2	55.5	0.08	1.38	0.4	0.008	0.16
H246867		300	139.5	30.2	<0.002	0.04	1.34	2.4	2	1.4	73.4	0.3	0.06	0.8	0.151	0.3
H246868		170	45.7	17.6	<0.002	0.02	0.69	1.5	2	0.8	69.8	0.18	<0.05	0.5	0.086	0.21
H246869		220	1.8	1.4	<0.002	0.01	0.15	0.2	2	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	<0.02
H246870		650	18	40.1	<0.002	0.05	0.92	3.3	3	4.4	90.1	0.5	0.05	1.7	0.174	0.38
H246871		740	192.5	27	<0.002	0.03	1.4	3.1	3	11.9	85.9	0.39	0.18	2.2	0.145	0.53
H246872		170	150.5	5	<0.002	0.02	0.62	1.5	2	7.6	67.2	0.29	0.06	0.5	0.117	0.08
H246873		520	14.3	26.9	<0.002	0.03	1.28	8	2	1	221	0.61	<0.05	2.3	0.308	0.18
H246874		90	4.1	5.6	<0.002	0.02	0.46	0.7	2	0.2	143.5	0.07	0.05	0.3	0.03	0.04
H246875		130	14.1	10.4	<0.002	0.01	2.49	1.1	2	0.5	127	0.11	0.06	0.4	0.043	0.13

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CERTIFICATE OF ANALYSIS VA09064974

Sample Description	Method / Analyte / Units / LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H246838		0.9	42	1.5	7.9	148	16.8
H246839		0.7	29	2.7	7.6	335	20.5
H246840		0.5	20	2.6	5.9	254	12.6
H246841		1	45	6.5	13.8	3850	24.5
H246842		0.9	48	6	10.8	1895	29
H246843		0.9	33	4.4	9.7	996	22.5
H246844		0.6	5	0.1	0.8	15	0.5
H246845		1	31	6.1	14.8	1665	17.5
H246846		0.7	21	5.1	6.7	607	19.3
H246847		1.2	22	2.9	8.9	217	14.8
H246848		1.1	31	19.1	8.1	394	32.2
H246849		0.4	19	61.7	7	32	5.4
H246850		0.9	31	3.9	7.8	366	32.1
H246853		1.3	12	6.5	10.1	911	5.2
H246854		1.1	39	4	8.9	151	27.3
H246855		0.8	28	3.5	7	174	19.7
H246856		0.6	26	3.1	5.6	457	15.3
H246857		0.5	25	3	5.7	426	15
H246858		0.7	36	3.3	7	235	26
H246859		0.5	23	2.5	7.8	242	14.8
H246860		0.5	19	2.5	7.9	495	13.4
H246861		0.4	17	2.3	6.8	245	10.3
H246862		0.6	22	23.2	9.1	188	14.1
H246863		0.6	27	8.4	6.8	234	18.8
H246864		0.5	19	1.7	7.3	169	13.3
H246865		0.7	26	2.5	7.5	538	17.2
H246866		0.5	7	35.4	4.3	11	2
H246867		0.8	33	3.9	6.8	1395	23.2
H246868		0.4	19	1.7	6.2	408	13
H246869		0.4	5	0.1	0.9	15	0.5
H246870		1.1	31	2.1	12.3	129	31.8
H246871		1.6	44	6.4	9	1115	49.3
H246872		2.1	89	4.2	5.9	918	68.4
H246873		0.8	76	31.3	11.1	121	27.5
H246874		0.2	10	5.4	3.9	37	4.9
H246875		0.4	13	33.7	6.6	169	5.1

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 6-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09064974

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

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Finalized Date: 13-JUL-2009
Account: RCM

CERTIFICATE VA09064973

Project: RAU

P.O. No.: BATCH 3

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 13-JUL-2009
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CERTIFICATE OF ANALYSIS VA09064973

Sample Description	Method	WEI-21	Au-AA26	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H246876		9.90	0.07	0.11	0.35	362	120	0.13	4.13	35	0.24	6.37	1.8	5	0.73	2.8
H246877		6.58	0.09	0.13	0.22	654	90	0.06	4.1	34.4	0.31	5.62	1.8	3	0.61	2.2
H246878		6.28	0.08	0.17	0.3	662	160	0.08	7.62	34.4	0.29	5.54	1.9	2	0.57	1.7
H246879		4.62	<0.01	0.01	0.07	<5	10	0.07	0.06	19.05	0.05	1.53	0.8	1	0.23	1.9
H246880		0.80	1.19	12.05	3.48	>10000	1400	0.72	335	1.86	4.25	66.7	10.5	13	4.76	24.1
H246881		4.60	1.25	17.3	1.81	>10000	1200	0.51	443	1.8	5.17	46.9	8.6	14	3.82	28.5
H246882		2.52	0.56	19.7	1	>10000	1130	0.31	420	1.35	6.01	30.3	6.6	8	3.21	29.3
H246883		2.30	0.49	10.4	1.31	>10000	1200	0.35	206	1.79	5.49	35.2	6.3	13	3.52	28.1
H246884		0.28	5.32	0.24	0.12	>10000	30	<0.05	463	8.77	0.05	41	1.7	13	0.82	39.6
H246885		1.88	0.39	7.88	1.09	>10000	940	0.38	160	1.89	5.69	31.2	6.2	13	3.06	20
H246886		0.68	0.08	2.09	0.74	>10000	760	0.27	24.9	0.78	4.05	17.7	6.4	5	1.93	12
H246887		3.70	0.60	7.84	1.28	>10000	820	0.43	77.4	2.34	4.44	28.2	7.4	15	2.02	24.2
H246888		3.32	0.51	0.72	0.49	>10000	700	0.16	302	1.07	5.55	21.6	5.8	1	0.5	8.7
H246889		3.64	0.94	1.58	0.56	>10000	630	0.2	185	1	4.65	20.7	5.5	5	0.83	11.8
H246890		3.94	1.09	1.17	0.33	>10000	880	0.12	446	0.92	6.59	17.2	8.6	1	0.39	8.7
H246891		4.40	0.67	0.89	0.27	>10000	1070	0.1	648	1.09	3.86	21.1	11.8	<1	0.2	10
H246892		4.44	0.88	4.58	0.93	>10000	860	0.11	504	7.61	3.85	28.5	10.8	15	1.8	19.2
H246893		4.80	0.49	1.5	0.65	>10000	730	0.31	488	2.59	6.95	52.3	7.9	2	0.59	18.1
H246894		4.96	<0.01	0.02	0.08	58	20	<0.05	1.75	19.1	0.07	2.02	0.9	1	0.2	2.9
H246895		2.34	0.58	3.69	0.77	>10000	600	0.32	307	14.8	4.27	31.4	7.6	17	1.22	16.5
H246896		3.32	0.40	0.31	0.47	>10000	690	0.15	365	0.91	1.77	18.8	3	1	0.27	5.6
H246897		0.64	0.97	1.17	0.55	>10000	1770	0.23	170.5	2.51	5.11	63.5	4.4	5	0.57	7.1
H246898		5.86	0.12	0.58	0.28	1440	210	0.09	21.4	20.4	3.16	13.5	1.5	2	0.44	2.4
H246899		2.74	0.09	0.47	0.26	1290	240	0.1	14.25	20.5	5.8	12.85	1.3	2	0.41	3.3
H246900		6.68	0.13	0.26	0.1	3760	280	0.05	107	18.15	1.05	12.6	1.3	<1	0.25	2.9
H246901		8.82	0.04	0.17	0.13	1440	330	0.07	9.54	22.6	1.18	11.6	1.3	1	0.23	4.9
H246902		2.52	0.05	0.1	0.36	2200	300	0.13	3.66	24.2	0.47	15.25	0.9	3	0.65	1.9
H246903		2.66	0.49	0.44	0.38	8030	460	0.18	55.8	20.7	2.01	13.95	1.8	3	0.78	7
H246904		0.28	1.47	1.64	0.1	>10000	20	<0.05	329	12.1	0.81	56.6	1.5	5	0.67	16.1
H246905		10.28	0.01	0.07	0.08	191	20	0.08	1.1	18.9	0.23	5.21	0.4	1	0.24	1.3
H246906		3.86	<0.01	0.02	0.18	380	40	0.16	0.48	18.25	0.25	4.37	0.6	3	0.25	1
H246907		4.28	0.02	0.04	0.59	2590	120	0.37	0.83	15.85	0.86	8.52	1.3	6	0.63	1.4
H246908		10.56	0.01	0.04	0.16	150	20	0.12	0.41	18.9	0.2	6.59	0.7	2	0.21	2
H246909		7.90	<0.01	0.05	1.08	27	380	0.3	0.12	32.7	0.07	13.35	2	13	0.64	4.9
H246910		7.34	0.01	0.04	0.86	83	290	0.28	0.2	33.8	0.23	11.7	5.1	12	0.47	7.3
H246911		4.12	0.07	4.02	3.05	>10000	700	1.26	1.16	2.4	5.65	38.4	16.7	33	3.36	41.5

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Project: RAU

Finalized Date: 13-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09064973

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246876		0.98	0.89	<0.05	0.2	<0.01	0.011	0.15	4.8	1.6	0.38	376	0.17	0.01	2.2	6.1
H246877		1.44	0.62	<0.05	0.1	<0.01	0.008	0.08	4.1	0.9	0.59	359	0.24	0.01	1.6	6.1
H246878		1.23	0.87	<0.05	0.2	<0.01	0.007	0.13	4	0.8	0.54	441	0.2	<0.01	2.9	5.8
H246879		0.38	0.26	<0.05	<0.1	<0.01	0.005	0.03	0.7	1	12.15	180	2.65	<0.01	0.3	2.7
H246880		38.6	11.55	0.51	1.1	<1	0.153	1.55	34.1	6.6	0.5	4370	4.45	0.04	28.6	46.9
H246881		42.9	6.3	0.7	0.6	<1	0.184	0.72	24.3	4.2	0.34	4510	4.55	0.03	9	38
H246882		47.3	3.67	0.62	0.4	<1	0.182	0.29	15	2.9	0.17	3720	4.45	0.02	2.7	26.5
H246883		45	4.05	0.54	0.5	<1	0.149	0.4	17.6	3.4	0.19	3270	5.49	0.02	4.1	26.3
H246884		23.3	1.05	0.35	0.1	<1	0.085	0.07	24.4	1.2	4.73	1435	10.6	0.01	1.4	13.2
H246885		46.3	3.66	0.58	0.4	<1	0.147	0.32	15.8	2.8	0.2	3140	4.52	0.02	3.5	26.7
H246886		49.8	2.53	0.5	0.3	<1	0.081	0.19	10.5	1.6	0.17	5010	6.09	0.01	1.5	21.2
H246887		46.2	4	0.51	0.5	<1	0.12	0.37	16.2	2.3	0.24	4270	7.94	0.02	4.5	30.4
H246888		48.7	1.9	0.57	0.1	<1	0.238	0.1	8.4	0.8	0.11	3620	4.76	0.01	0.8	21.8
H246889		48.7	2.31	0.62	0.2	<1	0.171	0.13	9	1.2	0.11	3410	6.4	0.01	1.5	21.4
H246890		49	1.53	0.57	0.1	<1	0.175	0.06	7.6	0.6	0.1	4600	4.21	0.01	0.7	16.8
H246891		49.1	2.11	0.31	0.1	<1	0.202	0.07	8.8	0.6	0.12	7040	6.86	0.01	0.6	21.3
H246892		37.6	3.84	0.28	0.4	<1	0.175	0.34	13.8	2.7	0.31	4400	9.01	0.02	3.6	28.9
H246893		46.4	3.15	0.51	0.2	<1	0.249	0.12	18.7	1.1	0.14	5330	7.91	0.01	1.1	28
H246894		0.46	0.27	<0.05	<0.1	<0.01	<0.005	0.03	0.8	1	12.3	192	0.13	0.01	0.4	1.9
H246895		28.1	2.92	0.37	0.3	<1	0.133	0.22	13.6	1.7	0.37	3820	10.95	0.02	2.8	24.5
H246896		49.9	3.38	0.56	0.3	<1	0.181	0.13	6.3	1.2	0.17	4190	6.36	0.01	0.7	11.1
H246897		43.4	3.98	0.52	0.3	<1	0.547	0.17	23.2	1.2	0.27	13600	9.33	0.03	0.8	18.5
H246898		6.79	2.02	0.1	0.2	<0.1	0.199	0.1	4.8	1.7	7.27	5280	0.75	0.01	1.2	3.8
H246899		6.36	2.05	0.1	0.2	<0.01	0.29	0.09	4.6	1.7	6.41	5280	0.87	0.01	1	3.8
H246900		9.98	1.01	0.15	0.1	<0.1	0.132	0.04	4.5	1.7	6.81	5330	1.35	0.01	0.4	3.2
H246901		5.88	0.94	0.08	0.1	<0.1	0.122	0.04	4.1	1.1	5.02	5990	1.14	0.01	0.4	2.5
H246902		5.16	2.54	0.09	0.3	<0.01	0.129	0.13	6.3	2.4	4.36	5270	0.84	0.01	0.9	2.2
H246903		10.5	2.64	0.14	0.2	<0.1	0.127	0.13	5.8	1.9	3.95	6170	1.2	0.01	1	5.5
H246904		15.65	0.96	0.25	0.1	<0.1	0.099	0.06	34.5	1.6	6.52	2070	5.36	0.01	0.5	6.8
H246905		1.57	0.57	<0.05	<0.1	<0.01	0.038	0.02	2.5	2.2	11.4	2140	0.11	0.01	0.3	1
H246906		1.54	1.16	<0.05	0.2	<0.01	0.022	0.06	2.6	2.1	11.35	1315	0.07	0.01	1.2	1.1
H246907		6.96	3.87	0.11	0.4	<0.1	0.049	0.19	3.9	3.1	9.21	3200	0.21	0.02	1.5	5
H246908		2.3	1.22	0.05	0.1	<0.01	0.05	0.02	3.3	2.2	11.4	2900	0.05	0.02	0.4	2
H246909		0.79	3.22	0.06	0.5	<0.01	0.013	0.57	12	4.1	0.56	220	0.09	0.01	7.1	8.2
H246910		0.64	2.49	0.06	0.5	<0.01	0.016	0.41	10.4	2.1	0.51	251	0.18	0.01	5	10.1
H246911		34.2	11.3	0.5	0.8	<1	0.088	1.13	27	8.4	0.33	1490	2.75	0.02	2.8	50.2

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Finalized Date: 13-JUL-2009
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CERTIFICATE OF ANALYSIS VA09064973

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H246876		140	4.4	7.1	<0.002	0.07	0.6	0.9	2	0.2	135	0.12	<0.05	0.4	0.043	0.05
H246877		60	3.8	4	<0.002	0.04	0.54	0.5	2	0.2	124.5	0.09	<0.05	0.4	0.016	0.04
H246878		50	3.9	4.9	<0.002	0.04	0.53	0.5	2	0.3	124	0.19	<0.05	0.8	0.017	0.04
H246879		330	1.9	1.3	<0.002	0.01	<0.05	0.2	2	<0.2	52.1	<0.05	<0.05	<0.2	<0.005	<0.02
H246880		450	91.1	55.1	0.003	0.02	18.6	3.5	4	3.4	20.4	1.74	0.36	8.1	0.115	0.42
H246881		410	111.5	32.5	0.004	0.02	18.85	2.7	4	2.5	26.6	0.49	0.41	3.8	0.062	0.47
H246882		330	91.6	21.4	0.002	0.04	13	2	4	2.6	35	0.17	0.39	1.5	0.042	0.39
H246883		350	57.9	22.7	<0.002	0.04	10.05	2.3	5	1.9	36.1	0.24	0.26	2.3	0.052	0.42
H246884		70	6.5	7.7	0.004	>10.0	25.1	0.2	9	2.3	57.9	0.08	1.66	0.3	0.008	0.15
H246885		320	51	19.8	<0.002	0.06	8.93	2.2	4	1.9	34.9	0.2	0.24	1.8	0.049	0.4
H246886		370	11.8	10.4	<0.002	0.03	3.4	1.4	3	0.5	29.4	0.08	0.09	1	0.029	0.21
H246887		410	36.3	16.9	<0.002	0.03	7.05	2.2	4	1.1	29.8	0.27	0.14	2.4	0.049	0.24
H246888		310	97.4	6	<0.002	0.05	23.2	0.9	5	0.7	28.2	<0.05	0.35	0.3	0.013	0.3
H246889		310	86.6	7.7	<0.002	0.05	22.7	0.9	6	0.8	29.4	0.08	0.39	0.7	0.03	0.31
H246890		220	331	4.6	<0.002	0.05	35.9	0.5	9	0.5	31.8	<0.05	0.65	0.6	0.009	0.24
H246891		370	87.5	4.3	<0.002	0.03	21.2	1.1	2	1.4	39.7	<0.05	0.8	0.8	0.012	0.13
H246892		390	108	18.6	<0.002	0.03	20.3	1.8	2	4	52.9	0.22	0.55	2.1	0.038	0.3
H246893		290	157.5	10.4	<0.002	0.04	17.45	1.3	4	2.8	36	0.06	0.45	0.7	0.019	0.24
H246894		270	2.2	1.3	<0.002	0.01	0.15	0.2	2	<0.2	64.7	<0.05	<0.05	<0.2	<0.005	<0.02
H246895		280	75.3	12.3	<0.002	0.04	12.45	1.5	4	1.6	68.4	0.15	0.32	1	0.035	0.22
H246896		420	96.5	9.4	<0.002	0.07	11.1	1.5	4	1.4	28	<0.05	0.38	0.3	0.014	0.19
H246897		570	208	11.2	<0.002	0.05	6.83	3.9	3	1.7	40.6	<0.05	0.23	0.4	0.018	0.26
H246898		210	118	7.7	<0.002	0.01	1.31	1	2	1.5	108.5	0.06	<0.05	<0.2	0.018	0.07
H246899		210	140	7.7	<0.002	0.01	1.44	1	2	2.2	95.4	0.05	<0.05	<0.2	0.018	0.06
H246900		150	55	2.4	<0.002	0.02	3.35	0.9	2	0.6	103.5	<0.05	0.09	<0.2	0.006	0.06
H246901		170	47.2	3.1	<0.002	0.01	2.27	1	2	0.6	79.4	<0.05	<0.05	<0.2	0.008	0.1
H246902		260	6.7	9	<0.002	0.01	0.8	1.3	2	0.7	76.6	0.05	<0.05	<0.2	0.022	0.12
H246903		370	59.3	11.2	<0.002	0.02	4.75	1.3	2	1.2	58.6	0.05	0.09	0.2	0.021	0.22
H246904		120	14	7.1	0.004	>10.0	22.6	0.3	5	1.2	83.7	<0.05	0.87	0.4	0.007	0.09
H246905		50	10.8	2.4	<0.002	0.06	0.36	0.4	2	0.4	84	<0.05	<0.05	<0.2	0.006	0.02
H246906		60	7.1	3.3	<0.002	0.01	0.28	0.4	2	0.6	58.7	0.06	<0.05	<0.2	0.024	0.03
H246907		220	33.5	12.1	<0.002	0.04	0.77	1.2	2	1.2	76.4	0.08	<0.05	0.2	0.032	0.18
H246908		40	11.6	1.2	<0.002	0.06	0.36	1.6	3	0.2	91.9	<0.05	<0.05	<0.2	0.008	0.02
H246909		390	2.4	17.1	<0.002	0.6	0.13	2.9	3	0.4	123	0.42	0.05	1.3	0.142	0.06
H246910		400	2.5	11	<0.002	0.29	0.13	2.4	3	0.3	145	0.31	<0.05	1	0.1	0.04
H246911		1370	75.7	45.4	<0.002	0.04	7.3	6.6	4	0.7	33.1	0.19	0.12	3	0.13	0.6

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 13-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09064973

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	1	0.1	0.1	2	0.5
H246876		0.2	3	5.5	5.3	56	6.5
H246877		0.2	1	4.8	5.3	86	4.3
H246878		0.2	1	4.5	4.7	72	5.9
H246879		0.6	1	0.1	1	14	<0.5
H246880		3.1	29	321	30.1	1445	29.5
H246881		4	25	391	28.6	1645	17.8
H246882		4.6	21	177.5	27.9	1345	12.7
H246883		4.3	22	146	26.2	1165	15.1
H246884		0.6	4	35	4.8	10	5
H246885		4	21	167.5	23.5	1195	13.6
H246886		3.5	13	19.6	20	939	10.3
H246887		3.5	20	96.2	23.8	1135	16.1
H246888		4.1	10	66.4	21.8	678	5.7
H246889		4.1	16	88.9	14.4	753	8.4
H246890		4	10	188.5	13	1375	6.4
H246891		4.9	14	84	12.4	722	7.2
H246892		4.1	18	184	15.5	865	12.5
H246893		3.7	14	129.5	29.6	929	9.7
H246894		0.5	<1	0.6	1.3	15	<0.5
H246895		2.3	13	118	20.3	781	9.8
H246896		3	16	6.9	21.1	517	11.1
H246897		2.7	19	24.7	53.4	1045	10.2
H246898		0.5	6	4.1	14.5	428	8.1
H246899		0.5	5	3.3	14.1	489	8.6
H246900		0.8	4	23.5	13.1	289	3.6
H246901		0.5	4	34.2	12.7	289	5.1
H246902		0.6	6	3.7	12.5	75	9.4
H246903		0.7	10	73.2	17.8	484	9.5
H246904		0.9	4	178	7.2	125	2.7
H246905		0.1	2	1.3	5.3	56	1.9
H246906		0.2	3	1.6	4.6	98	6.5
H246907		0.9	8	8	10	548	16.5
H246908		0.1	7	0.7	9.9	60	4.2
H246909		0.5	20	0.4	9.7	7	22.1
H246910		1.1	19	0.3	9.1	57	21
H246911		3.8	82	24.4	19.6	1320	36.8

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Project: RAU

Finalized Date: 13-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09064973

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.
Hg-CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.

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Finalized Date: 29-JUN-2009
Account: RCM

CERTIFICATE VA09063940

Project: RAU

P.O. No.:

This report is for 39 Soil samples submitted to our lab in Vancouver, BC, Canada on 24-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SCR-43	Screen to -500um, discard plus
PUL-31	Pulverize split to 85% <75 um
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 29-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063940

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC49712		0.30	0.018	0.4	1.10	74	<10	410	<0.5	4	>25.0	2.2	7	28	43	2.08
CC49713		0.28	0.100	3.1	2.36	310	<10	430	1.0	<2	2.37	5.5	17	86	128	9.27
CC49714		0.38	0.372	2.1	3.42	654	<10	520	1.0	45	1.37	14.0	18	132	115	15.7
CC49715		0.38	0.091	1.7	2.30	520	<10	950	1.1	58	3.74	9.7	35	80	176	11.10
CC49716		0.26	0.054	0.7	1.82	239	<10	260	0.8	28	7.60	2.8	16	43	74	5.11
CC49717		0.30	0.489	2.5	1.47	347	<10	800	0.5	32	0.52	3.0	47	67	130	10.50
CC49718		0.26	0.007	<0.2	0.24	32	<10	80	<0.5	3	15.0	2.3	3	8	13	0.78
CC49719		0.36	0.060	0.3	1.03	259	<10	260	0.5	30	8.53	2.4	13	31	80	5.43
CC49720		0.24	0.006	1.4	0.48	10	<10	300	<0.5	3	12.75	43.2	6	8	13	4.71
CC49721		0.50	0.002	<0.2	0.67	<2	<10	50	<0.5	<2	20.8	<0.5	20	11	20	3.61
CC49722		0.32	0.004	<0.2	0.71	<2	<10	220	<0.5	<2	20.8	<0.5	15	11	13	2.93
CC49723		0.32	0.001	<0.2	0.72	<2	<10	40	<0.5	<2	20.8	<0.5	19	11	18	3.59
CC49724		0.38	0.001	<0.2	0.68	<2	<10	40	<0.5	<2	20.9	<0.5	14	11	14	3.14
CC49725		0.30	0.002	<0.2	0.66	7	<10	40	<0.5	<2	21.4	<0.5	9	13	11	2.40
CC49726		0.42	0.001	<0.2	0.28	<2	<10	220	<0.5	<2	22.9	<0.5	9	4	9	2.46
CC49727		0.30	0.001	<0.2	0.24	<2	<10	40	<0.5	<2	>25.0	<0.5	9	4	7	2.53
CC49728		0.28	0.002	<0.2	0.70	<2	<10	40	<0.5	<2	21.3	<0.5	11	22	16	2.45
CC49729		0.36	0.003	<0.2	0.59	<2	<10	40	<0.5	2	21.0	<0.5	10	11	11	2.45
CC49730		0.28	0.001	<0.2	0.50	16	<10	30	<0.5	<2	23.0	<0.5	10	12	11	2.21
CC49731		0.42	0.002	<0.2	0.49	<2	<10	20	<0.5	<2	22.3	<0.5	10	9	9	2.51
CC49732		0.34	0.004	4.8	0.88	35	<10	3500	0.5	<2	17.9	29.7	9	17	63	2.63
CC49733		0.34	0.001	<0.2	1.83	<2	<10	220	<0.5	<2	7.41	<0.5	35	65	116	5.77
CC49734		0.28	0.003	<0.2	0.31	7	<10	110	<0.5	2	23.3	0.5	4	4	9	1.16
CC49735		0.30	0.002	<0.2	2.21	6	<10	200	<0.5	<2	5.81	0.8	52	183	100	6.90
CC49736		0.26	0.010	0.9	0.70	49	<10	200	<0.5	<2	9.84	1.5	21	21	31	5.23
CC49737		0.22	0.004	0.4	1.07	16	<10	320	<0.5	<2	3.05	3.2	9	26	43	2.57
CC49738		0.24	0.004	0.4	1.09	16	<10	340	<0.5	<2	2.13	3.5	9	26	41	2.82
CC49739		0.36	0.023	3.5	2.23	308	<10	760	0.8	38	2.99	6.8	72	75	165	10.40
CC49740		0.24	0.219	14.6	1.38	1650	<10	190	0.6	194	3.09	9.9	12	54	224	29.1
CC43925		0.30	0.142	2.9	0.67	65	<10	280	<0.5	9	7.19	2.1	19	41	41	4.27
CC43926		0.22	0.005	1.2	0.10	24	<10	310	<0.5	5	14.05	0.7	<1	4	5	1.22
CC43927		0.30	0.002	<0.2	0.21	5	<10	170	<0.5	4	15.1	0.5	1	3	3	0.40
CC43928		0.34	1.495	8.1	0.81	1270	<10	470	0.5	323	6.16	9.7	17	28	81	17.0
CC43929		0.34	0.005	9.7	0.30	41	<10	2170	<0.5	7	24.6	0.8	3	3	76	1.20
CC43930		0.36	3.62	16.1	0.58	3020	<10	750	<0.5	339	3.68	14.1	14	22	179	22.6
CC43931		0.30	0.030	1.1	0.62	1090	<10	180	<0.5	32	11.60	3.4	4	14	16	7.38
CC43932		0.34	0.071	3.9	1.03	201	<10	210	0.6	24	8.98	3.0	8	21	31	3.79
CC43933		0.28	0.002	<0.2	0.57	20	<10	70	<0.5	<2	24.5	<0.5	9	9	8	2.43
CC43934		0.22	0.011	1.9	3.93	50	<10	1530	0.6	7	2.90	22.1	29	209	62	6.79

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 29-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063940

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
CC49712		<10	<1	0.14	10	0.47	1440	<1	0.02	44	460	560	<0.01	8	3	92
CC49713		10	<1	0.68	40	0.69	1005	19	0.02	193	3750	297	0.62	45	9	154
CC49714		10	1	0.35	30	1.23	3760	3	0.01	163	1970	>10000	0.01	20	14	9
CC49715		10	<1	0.17	30	2.97	5780	2	0.02	165	1550	2650	0.01	30	11	26
CC49716		<10	<1	0.15	20	5.06	1770	1	0.02	71	1710	1070	0.05	10	5	37
CC49717		<10	<1	0.30	30	0.59	1315	4	0.01	171	3000	1020	0.21	14	10	29
CC49718		<10	<1	0.03	10	9.61	438	7	0.02	26	450	106	0.05	2	1	87
CC49719		<10	<1	0.17	20	5.22	1510	3	0.02	66	3660	1145	0.02	10	4	40
CC49720		<10	<1	0.10	20	2.69	14950	1	0.02	33	580	857	0.30	4	2	148
CC49721		<10	<1	0.30	10	1.03	348	<1	0.01	52	740	14	<0.01	<2	3	844
CC49722		<10	<1	0.34	10	1.07	446	<1	0.02	38	710	12	<0.01	<2	3	885
CC49723		<10	<1	0.32	10	1.01	317	<1	0.01	51	720	6	<0.01	<2	3	853
CC49724		<10	<1	0.28	10	0.99	342	<1	0.01	43	720	5	<0.01	<2	3	819
CC49725		<10	<1	0.20	10	0.83	311	<1	0.01	31	810	8	<0.01	<2	3	607
CC49726		<10	<1	0.18	10	0.70	340	<1	0.01	28	700	4	<0.01	<2	2	850
CC49727		<10	<1	0.15	10	1.11	346	<1	0.01	30	500	4	<0.01	<2	2	1050
CC49728		<10	<1	0.30	10	1.02	357	<1	0.01	29	740	6	<0.01	<2	3	879
CC49729		<10	<1	0.22	10	0.95	333	<1	0.01	29	690	6	<0.01	<2	3	800
CC49730		<10	<1	0.18	10	0.64	285	<1	0.01	37	830	8	<0.01	<2	3	480
CC49731		<10	<1	0.18	10	1.53	329	<1	0.01	30	640	5	<0.01	<2	2	639
CC49732		<10	<1	0.18	10	0.53	8840	<1	0.06	46	300	1005	<0.01	12	3	153
CC49733		10	<1	0.71	10	1.41	440	<1	0.02	205	760	16	0.09	<2	5	110
CC49734		<10	<1	0.13	10	1.98	1110	<1	0.01	13	170	26	<0.01	2	2	199
CC49735		10	<1	0.29	20	2.02	2720	3	0.01	234	1570	48	0.03	2	9	36
CC49736		<10	<1	0.15	20	5.52	3110	1	0.02	63	830	107	0.12	2	2	74
CC49737		<10	<1	0.12	10	1.67	606	3	0.03	45	1110	27	0.09	3	3	59
CC49738		<10	<1	0.13	10	1.20	569	2	0.02	42	1260	23	0.18	2	2	61
CC49739		10	<1	0.29	30	1.26	7080	11	0.02	257	4120	4240	0.10	38	8	84
CC49740		<10	<1	0.14	40	1.64	2030	10	0.01	114	1540	>10000	0.06	145	6	11
CC43925		<10	<1	0.15	20	4.50	493	2	0.02	103	930	633	0.06	8	4	32
CC43926		<10	<1	0.01	<10	8.51	2890	2	0.02	5	100	172	0.02	2	<1	28
CC43927		<10	<1	0.02	<10	9.98	340	<1	0.02	5	310	44	0.03	<2	<1	31
CC43928		<10	<1	0.12	220	3.58	4000	3	0.02	110	2480	1365	0.03	30	6	35
CC43929		<10	<1	0.16	10	0.27	289	<1	0.04	7	480	2080	<0.01	44	1	233
CC43930		<10	1	0.12	100	2.01	8140	1	0.02	85	2100	6130	0.09	62	4	34
CC43931		<10	<1	0.08	10	7.70	1095	1	0.02	33	760	192	0.03	5	2	45
CC43932		<10	<1	0.10	10	5.92	1470	2	0.02	36	1000	532	0.01	16	3	45
CC43933		<10	<1	0.27	10	1.01	298	1	0.02	26	630	8	<0.01	<2	3	1275
CC43934		10	<1	0.16	10	4.94	4920	2	0.02	150	980	1910	0.11	5	11	34

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Project: RAU

Finalized Date: 29-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063940

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
CC49712		<20	0.03	<10	10	22	<10	1460
CC49713		<20	0.05	<10	<10	310	<10	934
CC49714		<20	0.10	<10	<10	187	<10	4660
CC49715		<20	0.09	<10	<10	78	20	3690
CC49716		<20	0.04	<10	<10	58	20	1260
CC49717		<20	0.04	<10	<10	48	20	1390
CC49718		<20	0.01	<10	<10	48	<10	377
CC49719		<20	0.03	<10	10	41	10	1480
CC49720		<20	0.01	<10	<10	15	<10	>10000
CC49721		<20	0.01	<10	<10	11	<10	167
CC49722		<20	0.01	<10	<10	12	<10	157
CC49723		<20	0.01	<10	<10	12	<10	61
CC49724		<20	0.01	<10	<10	11	<10	68
CC49725		<20	0.01	<10	<10	13	<10	67
CC49726		<20	<0.01	<10	<10	6	<10	53
CC49727		<20	<0.01	<10	<10	5	<10	57
CC49728		<20	0.02	<10	<10	14	<10	55
CC49729		<20	0.01	<10	<10	11	<10	55
CC49730		<20	0.01	<10	<10	9	<10	65
CC49731		<20	0.01	<10	<10	8	<10	59
CC49732		<20	0.03	<10	<10	16	10	8560
CC49733		<20	0.16	<10	<10	39	<10	343
CC49734		<20	0.01	<10	10	5	<10	179
CC49735		<20	0.01	<10	<10	62	<10	395
CC49736		<20	0.01	<10	<10	24	<10	395
CC49737		<20	0.04	<10	<10	55	<10	216
CC49738		<20	0.04	<10	<10	53	<10	216
CC49739		<20	0.06	10	10	117	30	5530
CC49740		<20	0.03	<10	<10	62	50	7860
CC43925		<20	0.01	<10	<10	41	<10	1160
CC43926		<20	<0.01	<10	<10	20	<10	916
CC43927		<20	0.01	<10	<10	21	<10	86
CC43928		<20	0.02	<10	<10	47	500	2590
CC43929		<20	0.01	<10	10	4	20	396
CC43930		<20	0.01	<10	<10	38	230	4640
CC43931		<20	0.02	<10	<10	27	30	1560
CC43932		<20	0.04	<10	<10	41	20	1440
CC43933		<20	0.01	<10	10	11	<10	83
CC43934		<20	0.11	<10	<10	124	10	7030

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

Finalized Date: 30-JUN-2009
Account: RCM

CERTIFICATE VA09063409

Project: RAU

P.O. No.:

This report is for 33 Rock samples submitted to our lab in Vancouver, BC, Canada on 24-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

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

To: ATAC RESOURCES LTD.
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 30-JUN-2009
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CERTIFICATE OF ANALYSIS VA09063409

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H247451		0.70	<0.01	0.28	7.87	55.8	270	1.98	0.08	2.35	0.2	101.5	42.9	88	4.44	69.3
H247452		0.96	0.22	4.48	0.35	1185	170	0.48	42.9	0.14	25.7	24.6	55.9	9	0.2	1025
H247453		0.38	1.45	5.94	0.74	6250	990	0.52	97	0.46	12.7	>500	25.4	82	0.27	93.3
H247454		0.58	0.98	19.1	1.28	1915	850	4.33	236	0.21	22	25.3	24.6	60	0.45	480
H247455		0.98	0.18	1.99	0.91	3410	220	0.53	112.5	1.8	16.1	42.9	8.4	14	1.17	25.7
H247456		0.82	0.09	1.75	5.77	850	4760	1.04	59.9	0.24	6.07	147.5	78.7	387	4.82	94.7
H247457		0.66	0.21	5.71	3.5	421	1700	0.64	1	0.29	1.94	62.2	72	175	0.78	323
H247458		0.82	0.03	0.33	5.27	64.8	2090	0.99	2.51	0.15	0.48	48.7	61	336	3.83	161.5
H247459		0.52	0.26	1.83	0.58	2290	140	0.24	126.5	2.33	0.36	26.3	9.6	7	0.18	12.5
H247460		0.80	0.25	5.69	0.32	1350	30	0.4	8.06	12.3	15.55	15.9	6.7	8	0.07	72.8
H247461		0.42	0.04	2.37	0.25	480	110	0.11	1.55	31.3	24.4	6.2	3.1	12	0.16	14.7
H247462		0.78	0.19	2.69	5.19	480	2400	1.54	15.3	0.32	6.48	73.5	180	242	1.52	474
H247463		0.58	5.72	5.01	0.36	9460	60	0.29	61.7	0.29	4.14	7.3	23.2	1	0.13	30.7
H247464		0.46	0.50	10.45	0.76	>10000	150	0.42	110	0.59	21.7	303	12.5	27	0.44	245
H247465		0.40	0.91	1.21	0.53	488	270	1.1	42.8	16.3	0.99	6.6	14.8	17	0.17	64.5
H247466		0.28	0.01	1.38	0.93	64	2450	0.57	1.38	18.45	59.2	9.24	8.9	16	1.09	52.7
H247467		0.78	0.24	4.8	0.55	226	460	0.35	5.5	21.7	4.6	6.5	21.2	21	0.42	31
H247468		0.26	0.06	11.05	0.81	6200	400	0.22	47.3	0.76	28.3	5.92	19.8	9	0.8	1925
H247469		0.38	0.08	22.6	0.29	699	470	0.19	15.45	3.86	42.3	1.85	8.7	1	0.36	69.8
H247470		0.36	<0.01	0.27	3.24	44.8	100	0.35	0.66	8.42	0.8	14.9	34.5	6	0.25	88.4
H247471		1.18	<0.01	1.39	1.38	54.3	180	0.65	384	4.86	0.57	7.52	95.7	54	3.72	1395
H247472		0.64	0.01	0.98	1.61	101	90	0.38	0.77	13.95	23	18.2	38.7	27	0.26	258
H247473		1.38	<0.01	3.07	0.95	274	>10000	1.06	282	0.23	11.25	12.15	103.5	25	3.67	2410
H247474		0.80	0.22	0.51	3.42	906	80	3.55	4.96	0.63	0.87	2.23	43.6	13	1.89	45.2
H247475		0.78	<0.01	14.9	0.7	44.2	3410	0.28	10.6	1.95	>1000	4.37	8.9	23	1.15	184.5
H247476		2.74	0.01	1.51	0.04	24.8	20	<0.05	3.28	0.03	1.6	0.5	707	<1	0.47	5690
H247477		0.40	<0.01	0.25	7.94	14.4	140	9.74	2.2	4.26	13.75	5.57	7.3	82	0.21	28.5
H247478		0.40	<0.01	0.13	1.15	210	130	0.37	0.59	27.6	0.75	35.1	28.5	50	0.54	51
H247479		0.66	<0.01	1.53	2.33	8.3	40	0.51	34.7	1.33	1.57	9.55	66.9	32	0.88	379
H247480		0.34	<0.01	2.04	0.73	70	4110	0.36	1.44	29.9	20	10	4.4	20	0.65	20.6
H247481		0.50	<0.01	0.64	0.85	20	160	0.25	0.35	24.9	2.87	27.9	6.5	24	0.22	21.3
H247482		0.38	<0.01	0.05	7.55	6	1530	2.29	0.15	11.05	0.24	124.5	84.1	7	4.1	85.1
H247483		0.18	<0.01	0.42	0.08	252	50	0.21	0.82	18.75	2.86	4.05	2	1	0.1	5.7

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: RAU

Finalized Date: 30-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063409

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H247451		8.71	21.9	0.26	3.5	0.069	3.97	41.9	58.3	2.93	155	16.1	0.08	36	71.6	3120
H247452		>50	1.39	0.85	0.1	0.637	0.11	13.1	1.3	0.15	874	75.2	<0.01	1.1	317	1180
H247453		46.8	13.3	1.78	2.7	0.214	0.19	600	2.5	0.33	215	15.4	0.03	1.9	166	1720
H247454		42.1	4.96	1.24	0.5	2.42	0.42	18.4	4.3	0.18	1675	20.5	0.02	1.3	194.5	1570
H247455		48	3.76	0.79	0.4	0.126	0.26	31.8	4	0.72	935	4.17	0.03	2.6	54.7	920
H247456		26.5	21.6	0.63	1.4	0.073	2.92	67.2	14.6	0.69	669	10.4	0.09	5.9	357	2180
H247457		32.9	9.41	0.56	2.5	0.059	1.38	32.8	3.1	0.38	147	11.4	0.03	1.4	303	4800
H247458		25.1	15.4	0.53	2.9	0.07	2.7	18.7	9.3	0.45	309	5.36	0.07	8.3	446	3170
H247459		30.7	3.62	0.42	0.1	0.06	0.11	16.2	1.2	0.22	897	4.46	0.04	0.4	52.5	630
H247460		33.4	1.48	0.75	0.1	0.065	0.02	9.8	0.4	0.1	284	11.45	<0.01	0.4	77.8	880
H247461		5.34	0.74	0.07	0.2	0.006	0.11	5.8	0.4	0.13	327	0.37	<0.01	1	14.8	160
H247462		32.8	11.3	0.69	2.9	0.05	2.3	30	10.9	0.4	377	16.3	0.04	3.8	900	4920
H247463		48.3	1.84	0.5	0.2	0.551	0.16	3.6	1.3	0.14	2030	4.59	0.01	0.5	31.6	70
H247464		47.3	11.3	0.86	0.5	0.52	0.08	199	1.3	0.37	1020	13.85	0.06	1	51.4	2130
H247465		23.5	2.46	0.3	0.4	0.022	0.17	4.3	1.8	0.74	483	74.9	0.02	1.8	102.5	340
H247466		5.35	3.35	0.08	0.3	0.133	0.44	5.8	6.2	1.22	10400	1.19	0.01	4.6	27.6	760
H247467		8.82	1.59	0.13	0.2	0.035	0.24	4.5	2.6	3.16	954	4.3	0.01	1.3	110	380
H247468		48	3.49	0.7	0.3	4.3	0.26	3.4	1.3	0.12	1495	4.36	0.02	0.6	57.9	180
H247469		44.7	3.46	1.05	0.1	58	0.11	1.4	1.4	0.08	5200	8.59	0.01	0.5	50	30
H247470		31.9	37.3	1.31	0.3	0.722	0.01	10.8	10.1	1.67	461	2.63	<0.01	2.2	66.5	1410
H247471		35.4	5.56	0.36	0.3	0.657	0.94	4	12	0.44	440	1.3	0.03	3.9	118	380
H247472		17.7	9.25	0.22	0.5	0.053	0.13	11.2	3.4	0.55	921	0.82	0.01	7.7	45.6	770
H247473		49.4	6.1	0.87	0.2	0.22	0.26	6.6	2.5	0.2	623	7.95	0.03	0.9	54.7	350
H247474		12.5	12.65	0.17	<0.1	0.103	0.75	0.9	10	0.57	685	0.45	0.2	0.3	54.6	80
H247475		5.85	2.52	0.07	0.2	0.037	0.35	3.5	3	0.87	3500	2.27	<0.01	1.3	48.2	160
H247476		>50	0.27	0.5	<0.1	0.061	0.03	<0.5	0.8	0.03	<5	1.38	<0.01	0.3	612	<10
H247477		4.33	50.2	0.09	0.1	0.332	0.02	2.1	7.5	2.19	2150	0.5	0.82	0.4	20.3	90
H247478		4.55	3.25	0.1	0.8	0.035	0.46	16.9	4.4	1.33	1145	0.88	0.07	12.4	41	520
H247479		8.13	8.26	0.11	0.2	0.192	0.1	5.9	16.7	2.36	401	1.88	0.54	3.1	95.3	180
H247480		2.38	2.38	0.06	0.3	0.04	0.32	6.8	3.7	0.24	2650	1.2	0.01	2.1	14.5	90
H247481		3.26	1.73	0.07	0.4	0.019	0.2	21.7	3.2	0.15	624	0.51	0.01	4.4	19.5	670
H247482		5.8	23	0.22	1	0.114	3.66	56	9.9	0.34	509	0.81	0.08	64.2	66.9	3670
H247483		2.67	0.27	0.05	<0.1	0.016	0.03	2.1	2.8	11.3	390	3.14	0.01	0.5	9.6	80

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Project: RAU

Finalized Date: 30-JUN-2009
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CERTIFICATE OF ANALYSIS VA09063409

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H247451		100.5	57.6	0.015	9.22	1.33	15.9	3	4.5	47.2	2.1	0.08	6.9	0.67	2.76	2.9
H247452		1705	4.2	<0.002	0.07	47.7	1.9	5	3	3.8	0.06	0.28	0.5	0.016	0.18	5.1
H247453		527	9.9	0.002	0.05	64.9	2.1	4	16.4	7.2	0.08	15	<0.2	0.037	0.19	12
H247454		4740	13.2	0.002	0.14	175	5.2	9	2.2	25.2	0.06	0.51	1.9	0.026	1.24	22.6
H247455		365	10.6	<0.002	0.08	10.75	3	3	1.5	10.7	0.13	0.53	2.3	0.04	0.39	21.4
H247456		297	61.4	<0.002	0.13	13.45	40.3	3	1.5	24.8	0.35	0.13	8.9	0.191	3.88	13.6
H247457		54.6	35	<0.002	0.08	70.8	25.2	7	0.8	9.7	0.09	0.19	3.3	0.061	0.81	6.7
H247458		27.1	49.7	<0.002	0.04	4.05	25.5	2	1.5	13.6	0.55	<0.05	6.3	0.261	0.56	6.1
H247459		14.3	4.7	<0.002	0.06	10.1	1.6	2	0.6	8.2	<0.05	0.14	1.1	0.005	0.08	10.7
H247460		8020	0.8	<0.002	0.05	254	1.7	5	0.3	2.8	<0.05	0.05	0.5	<0.005	0.35	43.9
H247461		360	2.9	<0.002	0.02	2.16	1	2	0.4	74.1	0.05	<0.05	0.3	0.022	0.03	0.6
H247462		141.5	60.4	<0.002	0.06	17.55	45.5	3	3.3	15.6	0.22	0.06	5.9	0.131	1.11	9.1
H247463		94.9	8.2	<0.002	4.38	8.07	0.8	3	12.7	10.4	<0.05	3.35	0.3	0.008	0.09	1.6
H247464		1135	5.9	<0.002	0.13	12.95	3.2	4	9.2	11.9	0.07	4.48	3	0.025	0.4	21.1
H247465		68.9	7.8	<0.002	0.19	30.1	1.7	5	1.3	10.4	0.1	0.52	0.9	0.031	0.57	6.9
H247466		4290	22.8	<0.002	0.17	25.7	2.2	2	0.7	279	0.24	<0.05	1.1	0.078	0.39	1.9
H247467		132.5	9.3	<0.002	0.07	9.53	2.5	2	0.8	30.1	0.06	0.05	0.4	0.026	0.37	2.5
H247468		2100	15.3	<0.002	0.19	371	2.7	4	19.1	8.7	<0.05	0.37	1.1	0.013	0.21	8
H247469		7140	6.6	<0.002	0.13	47.9	0.4	11	40.3	3.8	<0.05	0.14	0.2	0.006	0.51	3.1
H247470		96.5	0.4	<0.002	0.34	3.34	4.3	2	1	28.2	0.13	0.1	0.6	0.054	0.02	1.4
H247471		96.9	75	<0.002	8.14	1.52	5.2	2	9.2	37	0.22	1.05	1	0.096	0.45	0.5
H247472		111	6.1	<0.002	1.17	11.2	5.4	2	0.3	26.4	0.31	0.22	0.9	0.151	0.13	1.1
H247473		480	30.7	<0.002	0.42	57.2	3.9	3	3	33.2	0.05	1.11	0.8	0.031	3.37	4.3
H247474		48.9	112.5	<0.002	>10.0	11.8	4.2	2	28	24.8	<0.05	0.1	<0.2	0.025	0.43	0.2
H247475		>10000	18	<0.002	0.27	65.5	3.2	26	1.5	27	0.07	0.06	0.5	0.039	1.17	0.9
H247476		18.9	4.9	<0.002	>10.0	0.21	<0.1	10	0.4	0.7	<0.05	1.65	<0.2	<0.005	0.04	0.1
H247477		155.5	0.4	<0.002	0.12	1.49	31.7	2	37.3	118.5	<0.05	<0.05	<0.2	0.103	0.06	0.2
H247478		16.1	9.5	<0.002	3.39	0.88	3.9	2	0.9	253	0.65	0.1	2.2	0.183	0.12	1
H247479		81.1	12	<0.002	0.07	0.48	7.2	2	4.5	29.7	0.16	2.02	0.6	0.108	0.16	0.2
H247480		178	15.5	<0.002	0.15	11.5	4.1	2	2.8	80	0.12	0.08	0.9	0.052	0.43	1.1
H247481		39.3	4.7	<0.002	0.03	1.52	4.8	3	0.2	42.4	0.25	<0.05	1.3	0.129	0.05	0.7
H247482		7.9	80.2	<0.002	0.95	1.19	16.7	3	3.1	60.1	4.23	<0.05	6.6	1.79	0.38	1.3
H247483		49	1	<0.002	0.03	0.78	0.5	3	0.3	69.6	<0.05	<0.05	<0.2	0.011	<0.02	1.4

***** See Appendix Page for comments regarding this certificate *****

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

Project: RAU

Finalized Date: 30-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063409

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H247451		263	1.8	18.2	66	155
H247452		75	33	12.6	6390	5.4
H247453		396	46.4	18.9	3160	89.2
H247454		105	163.5	18.4	>10000	28.8
H247455		53	8.1	12.4	2630	15.5
H247456		270	3.2	19.6	1600	52.3
H247457		194	2.9	12.5	370	97.8
H247458		188	0.6	16.3	240	108
H247459		41	4.2	7.4	80	4.9
H247460		23	44	7.1	>10000	2.2
H247461		10	0.5	6.1	3130	7
H247462		231	30.7	33.1	1315	110
H247463		8	0.7	4.2	1070	8.2
H247464		141	50.1	22.5	3870	17
H247465		130	182.5	4.3	406	15
H247466		26	5.8	4.8	9430	11.9
H247467		19	6.1	4.6	1430	8.7
H247468		14	1.3	5.2	>10000	10.6
H247469		45	2.1	1.9	>10000	3.7
H247470		129	0.4	12.2	474	14.1
H247471		36	8.4	4.3	257	10.4
H247472		135	13.7	12.4	1880	24
H247473		29	63.8	13.3	5420	7.5
H247474		19	1.8	1.9	474	2.9
H247475		10	1.8	3.5	>10000	8.2
H247476		2	1	0.4	766	<0.5
H247477		104	0.7	7.2	2610	1.6
H247478		39	0.3	13.4	95	33.6
H247479		69	0.4	2.5	385	9.2
H247480		25	2.7	8.8	3230	11.1
H247481		26	9.2	12.8	1105	16.4
H247482		175	1.3	27.4	61	46.3
H247483		11	0.4	2.1	1010	3

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-JUN-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063409

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

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Finalized Date: 3-JUL-2009
Account: RCM

CERTIFICATE VA09063053

Project: RAU

P.O. No.: RAU09-19

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: RAU

Finalized Date: 3-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063053

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	Au-GRA22 Au ppm 0.05	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
H246802		3.16	0.01		0.19	0.81	99	210	0.32	0.18	33.7	0.77	13.9	2.7	20	0.49
H246803		2.52	0.01		0.15	0.68	155	180	0.24	0.57	32.6	1	11.25	2.6	16	0.7
H246804		1.70	0.48		0.74	4.02	1890	840	1.06	59	16.45	3.99	37.2	19.9	89	5.03
H246805		3.14	4.67		1.4	0.44	>10000	1220	0.1	483	1.87	0.65	13.75	3.2	14	0.46
H246806		3.40	7.25		0.54	0.16	>10000	6500	0.05	768	2.65	0.58	3.41	0.9	5	0.1
H246807		0.28	0.52		0.89	0.8	4710	120	0.28	94.7	11.85	0.13	35.5	6.3	12	2.14
H246808		3.00	4.17		0.6	0.4	>10000	3600	<0.05	800	1.18	1.9	5.59	1.6	6	0.64
H246809		2.80	>100	162.0	8.17	0.25	>10000	1570	<0.05	3220	1.98	0.59	6.24	0.6	7	0.4
H246810		1.82	84.5		5.13	0.21	>10000	1260	0.07	2570	2.07	0.74	4.52	0.7	4	0.33
H246811		3.02	40.4		2.31	0.19	>10000	1480	<0.05	2190	2.33	0.5	6.35	0.5	11	0.42
H246812		3.82	0.15		0.02	0.07	607	20	0.08	5.19	18.55	0.06	1.63	1.2	1	0.15
H246813		4.70	2.12		0.64	0.35	>10000	1760	0.15	378	1.96	3.37	6.34	2.9	9	0.55
H246814		2.64	0.74		1.7	2.29	>10000	470	0.79	149	1.11	3.8	30	7.4	65	11.95
H246815		3.10	5.56		2.96	0.83	>10000	890	0.5	790	0.53	2.12	8.63	3.4	13	0.6
H246816		4.76	7.82		2.67	0.34	>10000	7340	0.33	394	0.74	3.65	4.9	2.2	14	0.2
H246817		2.78	5.24		2.43	0.74	>10000	7570	0.48	268	0.78	4.96	7.6	5	13	0.34
H246818		3.06	0.91		2.79	0.78	>10000	620	0.36	178	0.52	6.37	12.85	8.3	15	0.93
H246819		2.82	0.29		1.22	0.62	>10000	390	0.37	21.5	0.38	7.02	16.15	10	12	0.84
H246820		2.36	0.31		2.5	0.94	>10000	910	0.56	41	0.63	10.05	21.5	4.9	16	0.06
H246821		2.54	0.15		1.19	1.35	>10000	710	0.69	46	0.68	8.18	25.3	5.7	38	1.82
H246822		1.74	0.24		0.58	0.81	>10000	450	0.57	118.5	0.58	6.02	23.3	5.9	12	0.45
H246823		2.22	0.09		0.18	0.34	2310	340	0.22	949	17.3	1.4	39.2	2.2	1	0.24
H246824		3.40	0.06		0.19	0.13	2660	470	0.07	742	19.7	1.04	23.1	1.2	1	0.21
H246825		0.28	1.38		1.7	0.1	>10000	20	<0.05	320	11.1	0.72	52	1.7	5	0.64
H246826		1.22	0.09		0.41	0.3	4780	610	0.31	126.5	17.95	4.32	26.7	4	<1	0.11
H246827		0.54	0.16		0.63	0.87	8730	350	0.52	118.5	0.99	5.63	30.4	10.9	<1	0.43
H246828		2.78	0.17		2	0.37	2090	590	0.27	287	21.4	5.66	12.55	3	2	0.29
H246829		1.82	0.11		1.02	1.89	1320	540	0.83	92	18.65	1.99	15.95	3.9	14	1.98
H246830		1.30	0.04		0.62	0.72	1065	410	0.35	59.3	19.2	2.43	20.5	3.2	5	0.97
H246831		1.90	0.01		0.13	0.57	517	120	0.29	19.95	19.7	3.34	19.95	1.2	2	0.36
H246832		0.70	0.02		0.56	0.36	900	160	0.27	40	19	1.52	39.6	1.2	2	0.48
H246833		3.34	0.03		0.01	0.06	7	30	<0.05	0.33	20.6	0.06	1.37	1	1	0.12
H246834		3.46	0.02		0.05	1.92	143	300	0.7	0.72	28.8	0.15	21.4	14.5	30	2.82
H246835		3.78	0.02		0.06	1.47	84	290	0.46	1.23	31.4	0.13	19.05	8.8	24	0.47
H246836		1.46	0.01		0.03	1.37	63	260	0.46	0.6	30.9	0.07	22.3	7.5	24	0.73
H246837		3.06	0.01		0.02	1.2	99	210	0.39	0.46	31.4	0.11	18.45	2.7	27	0.79

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Project: RAU

Finalized Date: 3-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063053

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOR	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
H246802		5.6	0.83	2.29	0.07	0.4	0.07	0.014	0.39	8.7	2.3	0.2	325	0.29	0.01	5
H246803		7	0.86	1.87	0.07	0.3	0.01	0.015	0.29	7.5	2.4	0.28	283	0.26	0.01	3.3
H246804		48	8.73	11.3	0.21	1.1	0.05	0.162	1.42	20.9	20.4	0.84	1390	1.64	0.03	10
H246805		18.4	46.7	2.92	0.82	0.3	0.04	0.237	0.15	5.2	1.1	0.13	1390	4.68	0.01	1.1
H246806		23.3	45.3	1.53	0.61	0.1	0.01	0.211	0.08	1.4	0.7	0.06	360	3.44	0.02	0.5
H246807		31.8	14	3.89	0.26	0.2	<0.01	0.071	0.4	20.8	3.8	6.57	1950	18.45	0.02	3.6
H246808		19.7	50	3.1	0.7	0.4	<0.01	0.191	0.23	2.5	2	0.1	655	2.52	0.02	0.7
H246809		7.4	30.8	2.41	0.44	1.7	0.01	0.148	0.23	3.2	2.3	0.07	236	2.77	0.02	10.1
H246810		10.7	36.6	2.05	0.65	1.1	0.01	0.156	0.24	2.3	2.5	0.07	271	2.84	0.02	4.7
H246811		11.2	23	4.57	1.25	0.6	0.02	0.826	0.09	3.6	2.2	0.04	17	1.74	<0.01	3.9
H246812		3.2	0.48	0.27	0.06	<0.1	<0.01	<0.005	0.03	0.8	1.1	12.25	176	0.07	0.01	0.3
H246813		19.4	46.4	2.02	0.62	0.3	0.01	0.221	0.14	3.7	1.4	0.1	553	3.9	0.01	0.7
H246814		39.7	34.2	10.05	0.43	1.2	0.02	0.338	1.63	20.1	12	0.22	668	2.45	0.03	6.5
H246815		17	>50	6.74	1.74	0.6	0.01	0.236	0.33	4.1	1.4	0.12	594	9.1	0.01	1.7
H246816		24.8	49.6	3.3	0.94	0.2	0.02	0.201	0.16	2.5	0.9	0.11	363	4.32	0.05	0.7
H246817		23.9	48	5.23	0.88	0.3	0.01	0.212	0.32	4	1	0.12	626	3.76	0.03	0.7
H246818		23.1	>50	6.3	0.77	0.3	0.01	0.238	0.33	6.8	1.4	0.12	2350	3.98	0.01	0.8
H246819		32.6	>50	4.78	0.68	0.2	0.01	0.249	0.14	8.4	0.9	0.11	4320	3.4	0.01	0.7
H246820		73.2	>50	5.7	0.61	0.1	0.01	0.349	0.04	8.6	0.4	0.09	3950	2.41	0.01	0.4
H246821		73.1	47.5	11.35	0.65	0.2	0.01	0.492	0.14	12.7	1.2	0.1	2890	1.97	0.01	0.7
H246822		48.8	>50	6.84	0.66	0.2	0.01	0.28	0.17	10.9	1.2	0.14	3620	0.9	0.01	0.6
H246823		4.1	8.89	2.11	0.26	0.2	<0.01	0.095	0.11	19.3	1.7	6.2	6370	0.28	0.01	0.7
H246824		3.4	5.67	1.33	0.19	0.1	<0.01	0.09	0.04	9.4	1.4	5.69	7560	0.31	0.01	0.3
H246825		16.4	15.05	0.97	0.27	0.1	<0.01	0.092	0.06	34.2	1.7	6.34	2000	6.14	<0.01	0.5
H246826		3.5	15.4	0.74	0.23	0.1	<0.01	0.08	0.02	10.3	0.7	2.36	8520	0.87	0.01	0.2
H246827		11.1	>50	2.89	0.69	0.3	0.01	0.113	0.09	13	0.9	0.3	8730	1.6	0.01	0.6
H246828		15.2	8.56	1.47	0.12	0.1	0.01	0.13	0.03	4.6	1.7	5.48	7620	0.75	0.02	0.5
H246829		8.7	6.26	12.8	0.12	0.9	0.01	0.289	0.24	7.1	4.6	4.12	6270	0.84	0.13	7.1
H246830		9.1	8.32	4.12	0.14	0.4	0.01	0.091	0.16	8.6	2.3	6.42	8110	0.59	0.03	2.2
H246831		3.1	4.78	2.65	0.09	0.3	<0.01	0.097	0.05	8.1	2.5	9.41	7190	0.14	0.04	1
H246832		2.8	5.41	2.3	0.13	0.4	<0.01	0.11	0.09	20.3	2.8	9.5	7020	0.32	0.02	1.8
H246833		1.8	0.45	0.22	0.07	<0.1	<0.01	<0.005	0.02	0.6	1	12.6	207	<0.05	0.01	0.3
H246834		8.5	1.24	5.13	0.09	1.4	<0.01	0.017	0.99	17.1	7.7	0.74	521	0.42	0.02	11.8
H246835		5.8	0.89	4.26	0.08	0.9	<0.01	0.022	0.69	17.5	3.2	0.44	405	0.14	0.02	8.8
H246836		5.5	0.78	3.85	0.08	0.9	<0.01	0.018	0.65	19.6	4.4	0.48	393	0.39	0.02	8.4
H246837		3.7	0.8	3.41	0.08	0.7	<0.01	0.023	0.58	15.5	4.5	0.38	425	0.13	0.01	7.6

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Project: RAU

Finalized Date: 3-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063053

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
H246802		7.2	260	10.5	13.7	<0.002	<0.01	0.58	2.7	2	0.4	82.2	0.27	<0.05	0.9	0.126
H246803		9	180	26.5	11.2	<0.002	0.01	1.05	2.3	2	0.5	98.3	0.17	<0.05	0.7	0.087
H246804		83	630	271	65.2	<0.002	0.01	13.45	11.4	2	3.6	55.3	0.56	0.12	3.3	0.337
H246805		12.2	490	23.2	9.9	<0.002	0.04	63.2	1.7	3	0.8	23.7	0.09	0.93	0.6	0.025
H246806		3.2	220	17.4	3.1	<0.002	0.22	116	0.8	5	0.6	66.5	<0.05	1.46	0.3	0.005
H246807		21.6	230	14.9	30.2	0.02	>10.0	4.81	2	7	3.5	83.5	0.2	0.23	0.7	0.095
H246808		7.2	170	69	10.7	<0.002	0.35	136	1.3	8	0.8	163	0.09	0.74	0.8	0.021
H246809		2.2	230	146.5	6.8	0.005	0.31	569	0.7	8	3.5	332	0.55	3.44	1	0.163
H246810		2.8	230	107.5	6.3	<0.002	0.36	365	0.7	7	2.4	334	0.28	3	0.7	0.069
H246811		3.7	860	193.5	4	<0.002	0.2	332	7.5	29	5.5	151	0.06	5	0.5	0.076
H246812		1.6	320	2.1	1.2	<0.002	0.03	1.06	0.4	2	<0.2	46.2	<0.05	<0.05	<0.2	<0.005
H246813		11.2	210	117	5.5	<0.002	0.13	49.2	1.8	4	0.8	85.6	<0.05	0.62	0.9	0.022
H246814		44.5	450	356	102.5	<0.002	1.36	55.6	7.7	7	3.8	660	0.33	0.29	2.7	0.119
H246815		78	410	190.5	14.4	0.016	0.06	201	2.9	23	4.8	23	0.16	1.02	0.8	0.034
H246816		17.8	360	115.5	6.2	0.014	0.22	127.5	1.2	11	1.2	29.4	0.08	0.53	0.9	0.014
H246817		18.4	370	287	14.7	0.009	0.22	96.3	1.9	4	1.1	33.4	<0.05	0.91	0.5	0.016
H246818		28.9	390	156.5	16.4	0.002	0.08	31.6	2.7	4	1.5	16.1	<0.05	0.4	0.9	0.025
H246819		33.4	370	158	6.7	<0.002	0.06	17.2	2.9	3	0.8	13.5	<0.05	0.11	0.6	0.017
H246820		19.1	470	299	1.5	0.002	0.06	11.9	3.4	4	0.5	20.7	<0.05	0.42	0.8	<0.005
H246821		24.1	500	69.4	7.1	<0.002	0.06	11.55	8.1	3	0.5	31.3	<0.05	0.9	2.2	0.018
H246822		18.6	230	49.8	7.4	<0.002	0.11	7.29	3.7	3	0.7	55.7	<0.05	0.52	1.3	0.013
H246823		5.1	170	33	4.7	<0.002	0.03	24.7	0.3	3	1.1	76.9	0.05	0.82	0.2	0.018
H246824		1.1	130	47	2.6	<0.002	0.02	22.7	<0.1	4	0.8	83.7	<0.05	0.86	<0.2	0.006
H246825		5.7	110	15	6.7	0.005	>10.0	21.9	0.4	5	1.2	78.8	<0.05	0.94	0.5	0.008
H246826		8.7	160	62	1.4	<0.002	0.04	6.32	0.9	3	0.5	49.4	<0.05	0.2	<0.2	<0.005
H246827		30.3	210	95.8	8.6	<0.002	0.02	9.67	1.7	3	1.1	12.2	<0.05	0.25	0.3	0.015
H246828		6.2	130	136	3.1	<0.002	0.02	5.35	1.6	3	1.8	70.2	<0.05	0.27	<0.2	0.01
H246829		15.6	590	111	43.7	<0.002	0.02	2.7	3.9	2	13.3	60.8	0.44	0.13	0.9	0.171
H246830		8.6	250	56.2	17	<0.002	0.02	2.34	2.9	2	3	77.1	0.13	0.07	1.5	0.056
H246831		1.9	180	39.5	4.6	<0.002	0.01	0.59	2	2	2.3	98	0.06	<0.05	<0.2	0.026
H246832		1.4	150	25.1	8.9	<0.002	<0.01	0.89	3.6	2	3.2	111.5	0.1	0.05	0.4	0.041
H246833		1.1	220	1.8	0.8	<0.002	0.02	<0.05	0.3	2	<0.2	49.2	<0.05	<0.05	<0.2	<0.005
H246834		25.9	360	3.7	52	0.005	0.04	0.48	5.5	3	1	145	0.69	0.06	2.1	0.266
H246835		19.7	320	4.8	32.9	<0.002	0.11	0.32	4.4	3	1	170.5	0.5	0.06	1.6	0.199
H246836		14.7	280	2.5	29.4	<0.002	0.04	0.42	4.4	2	1	193	0.48	0.06	1.5	0.192
H246837		7	280	1.6	26.4	<0.002	0.01	0.26	3.5	2	0.8	156.5	0.43	<0.05	1.3	0.166

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Project: RAU

Finalized Date: 3-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063053

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.1	1	0.1	0.1	2	0.5
H246802		0.12	0.2	16	0.8	7.8	68	16.1
H246803		0.14	0.2	14	1.3	7	170	13.6
H246804		1.56	1.6	69	17.5	22.9	1370	37.6
H246805		0.16	8.7	13	11	11.9	442	12.7
H246806		0.06	6.7	6	67.7	1.9	120	4.7
H246807		0.27	0.5	18	69	7.5	33	10.5
H246808		0.21	3.5	18	43.5	5	446	15.9
H246809		0.22	6.2	11	263	2.4	118	76.4
H246810		0.19	5.9	9	204	1.9	154	43.1
H246811		0.24	2	9	285	1.9	78	31
H246812		<0.02	0.4	3	0.8	1.1	14	0.6
H246813		0.22	3.7	14	86.8	5	764	9
H246814		0.83	3.7	59	177.5	9.5	1470	46.3
H246815		0.4	6	30	1900	7.7	1875	30.4
H246816		0.28	11.1	27	1250	3.9	1010	6.9
H246817		0.37	4.8	31	570	6.8	2010	14.9
H246818		0.26	2.8	35	106.5	13.7	2860	14.6
H246819		0.15	5	31	89.2	16.5	3760	7.5
H246820		0.07	6.7	30	94.4	18.7	2110	2.5
H246821		0.25	6.8	49	64	19.8	2090	6.2
H246822		0.22	5.6	19	16.5	19.6	1370	5.6
H246823		0.07	0.7	9	118	25.6	349	6.1
H246824		0.06	0.5	6	42	19.7	175	3.3
H246825		0.09	0.8	5	200	6.7	120	3.3
H246826		0.12	1.2	7	8.4	27.9	807	2.4
H246827		0.36	2.6	12	6.6	33.9	2390	9.7
H246828		0.18	0.8	5	4.2	20.2	653	5.7
H246829		0.31	1.4	40	117	21	377	35.4
H246830		0.44	2.2	14	19.8	24.7	647	16.4
H246831		0.09	0.8	11	2.8	21.4	336	10.1
H246832		0.08	1.1	13	3.1	27.5	331	16.3
H246833		<0.02	0.6	1	0.2	1	12	0.6
H246834		0.34	2.7	45	1.3	15.5	39	55.4
H246835		0.15	1	36	1.8	16.6	28	36.2
H246836		0.18	2	37	1.4	16.3	19	38.1
H246837		0.14	0.8	36	1.1	12.4	24	30.4

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Project: RAU

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 3-JUL-2009
Account: RCM

CERTIFICATE OF ANALYSIS VA09063053

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

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Finalized Date: 24-JUN-2009
Account: RCM

CERTIFICATE VA09059962

Project: RAU

P.O. No.: RAU-08-09

This report is for 1 Sediment sample submitted to our lab in Vancouver, BC, Canada on 16-JUN-2009.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

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

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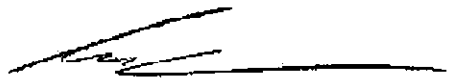
This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS VA09059962

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H246801		0.48	0.89	2.99	0.23	8240	110	0.16	250	0.55	2.13	21.3	3.3	<1	0.25	17.5

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CERTIFICATE OF ANALYSIS VA09059962

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H246801		>50	1.91	0.57	0.1	0.368	0.07	10.8	1.4	0.3	5380	3.04	0.01	0.7	11.9	420

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CERTIFICATE OF ANALYSIS VA09059962

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H246801		39.2	7.3	0.003	0.4	7.11	1.1	6	9.2	13	<0.05	0.32	0.4	0.011	0.47	3.3

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Account: RCM

CERTIFICATE OF ANALYSIS VA09059962

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H246801		11	250	19.2	339	6.2

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 24-JUN-2009
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CERTIFICATE OF ANALYSIS VA09059962

Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.

APPENDIX VII

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Chip	Dimension:
B375651	UTM:	529995	E	UTM:	7118664	N	Sample Width:	30 cm	Abundance:
	Elevation:		m						

Comments: Rusty, slightly pyrititc horizon in LST. Strike extension of skarn mineralization. Minor green actinolite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Chip	Dimension:
B375652	UTM:	530297	E	UTM:	7118005	N	Sample Width:	35 cm	Abundance:
	Elevation:		m						

Comments: Dark green, pyrrhotite rich (50%) rusty weathering skarn horizon. Part of a continuous chip sample from here to B375656. This sample was the top 35 cm of the sequence.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Chip	Dimension:
B375653	UTM:	530297	E	UTM:	7118005	N	Sample Width:	34 cm	Abundance:
	Elevation:		m						

Comments: 34 cm of grey LST/white MBL in between skarn horizons

Sample Number:	Grid East:		E	Grid North:		N	Type:	Chip	Dimension:
B375654	UTM:	530297	E	UTM:	7118005	N	Sample Width:	124 cm	Abundance:
	Elevation:		m						

Comments: 124 cm thickness of dark green, rusty weathering skarn with pyrite and lesser pyrrhotite. Locally coarse grain

Sample Number:	Grid East:		E	Grid North:		N	Type:	Chip	Dimension:
B375655	UTM:	530297	E	UTM:	7118005	N	Sample Width:	105 cm	Abundance:
	Elevation:		m						

Comments: ~1 m thickness of sugary, weathered LST with fine-grained pyrite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Chip	Dimension:
B375656	UTM:	530297	E	UTM:	7118005	N	Sample Width:	315 cm	Abundance:
	Elevation:		m						

Comments: Dark green rusty weathering skarn, basal layers (3.15 m thick) of continuous chip. Quartz +/- actinolite. Surgary green appearance.

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
B375657	UTM:	530235	E	UTM:	7118091	N	Sample Width: 123 cm	Abundance:
	Elevation:		m					

Comments: Dark green pyrrhotite+/-pyrite bearing skarn horizon. Continuous sampling to B375659

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
B375658	UTM:	530235	E	UTM:	7118091	N	Sample Width: 26 cm	Abundance:
	Elevation:		m					

Comments: Beige marble/LST layer between the two skarn horizons. 26 cm thick minor pyrrhotite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
B375659	UTM:	530235	E	UTM:	7118091	N	Sample Width: 276 cm	Abundance:
	Elevation:		m					

Comments: Very dark green to black (rusty weathering) skarn horizon possible black tourmaline with limonite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
B375660	UTM:	530265	E	UTM:	7118034	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Sample from quartz muscovite pegmatite exposed over 3x10 m, near skarn horizons. Dyke that terminates in LST

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
B375661	UTM:		E	UTM:		N	Sample Width: 10 cm	Abundance: O/C
	Elevation:		m					

Comments: Flat Top A - Massive felted aggregate of golden tremolite needles with rusty (limonite?) interstitial material. Weathers medium to dark brown on exterior surfaces.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
B375662	UTM:		E	UTM:		N	Sample Width: 10x5x4 cm	Abundance: Rare
	Elevation:		m					

Comments: Flat Top B - aggregate of euhedral smoky quartz crystals to 5 mm diameter in groundmass of felted actinolite. Numerous pockets of limonite in groundmass. Occasional subhedral calcite crystals

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375663	UTM:	E	UTM:	N	Sample Width: 8x5x3 cm	Abundance: Common
	Elevation:	m				

Comments: Flat Top C - fragments of calcite or marble in matrix of dark green felted actinolite. Weathers medium brown but no rusty areas on freshly broken surfaces.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375664	UTM:	E	UTM:	N	Sample Width: 7x7x5 cm	Abundance: Rare
	Elevation:	m				

Comments: Flat Top D - massive to euhedral quartz to 1 cm diameter with 40% interstitial medium borwn limonite. Quartz milky white.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375665	UTM:	E	UTM:	N	Sample Width: 7x5x5 cm	Abundance: Common
	Elevation:	m				

Comments: Flat Top E - dark green to medium brown weathering, white quartz fragments surrounded by dark green actinolite. Pocket of coarse black tourmaline crystals, euhedral glassy quartz to 5 mm and white calcite. Traces of pyrrhotite along boundary between pocket and actinolite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375666	UTM:	E	UTM:	N	Sample Width: 8x7x4 cm	Abundance: O/C
	Elevation:	m				

Comments: Flat Top F - light brown weathering mixture of quartz and calcite with abundant interstitial felted termolite, which imparts the tan colour.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375667	UTM:	E	UTM:	N	Sample Width: 10x5x5 cm	Abundance: O/C
	Elevation:	m				

Comments: Flat Top G - dark green weathering mixture of felted actinolite, white calcite and black tourmaline

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375668	UTM:	E	UTM:	N	Sample Width: 8x6x5 cm	Abundance:
	Elevation:	m				

Comments: Flat Top H - dark brown weathering mixture of calcite or partially skarnified marble surrounded by olive to dark green felted actinolite with interstitial dark brown limonite.

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
B375669	UTM:		E	UTM:		N	Sample Width: 12x10x10cm	Abundance:
	Elevation:		m					

Comments: Flat Top I - medium green weathering intergrown mixture of light grey clcite and dark green actinolite. Pocket of greenish grey crystals acocmpanied by smal black tourmaline crystals.

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension: From boulder
B375670	UTM:		E	UTM:		N	Sample Width: 6x5x5 cm	Abundance: Common
	Elevation:		m					

Comments: Flat Top J - partially skarnified limestone fragments rimmed by 1-2 mm of tremolite surrounded by actinolite. Minor white calcite.

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension: 20x10x10 cm cobble in soil
B375671	UTM:	531400	E	UTM:	7117900	N	Sample Width: 5x3x3 cm	Abundance: Rare
	Elevation:		m					

Comments: Skarn from soil pit CC24241=990 ppb Au, dark brown weathering felted massive actinolite with about 1% pyrrhotite and 1% black tourmaline. No residual limestone. Not radiating aligned type actinolite typically found as rind on narrow dykes.

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension: Large boulder 70x50x40 cm?
B375672	UTM:	530878	E	UTM:	7118588	N	Sample Width: 15x10x5 cm	Abundance: Rare?
	Elevation:		m					

Comments: Skarn from hillside SE of camp. Float boulder but could be near source - transition mostly intrusive boulders to mostly limestone. Dark brown weathering. Mixture of felted actinolite and black tourmaline. Minor limonite near tourmaline may be after sulphides but none seen in fresh rock.

Sample Number:	Grid East:		E	Grid North:		N	Type: O/C	Dimension: A few cm wide band along margin of dyke
B375673	UTM:	531350	E	UTM:	7117860	N	Sample Width: 5x4x3 cm	Abundance: Common
	Elevation:		m					

Comments: Pegmatie from margine of dyke. Lite grey quartz with fractures filled with actinolite, black tourmaline, traces of pyrrhotite.

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension: Large boulder
B375674	UTM:	531179	E	UTM:	7118628	N	Sample Width: 10x10x10cm	Abundance: Rare
	Elevation:		m					

Comments: Intrusive cream feldspar with anhedral blebs of quartz and minor black tourmaline.

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375675	UTM: 531350	E	UTM: 7117860	N	Sample Width: 10x8x5 cm	Abundance: Comprises much of large dyke
	Elevation:	m				

Comments: Medium grained groundmass of light to dark grey quartz, creamy feldspar and about 1% euhedral 1 mm diameter red garnets plus traces of biotite and muscovite and occasional up to 2 cm white feldspar phenocrysts. Fine black grains possibly tourmaline are scattered through the rock.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375676	UTM: 531344	E	UTM: 7118332	N	Sample Width: 15x5x2cm	Abundance: Rare
	Elevation:	m				

Comments: Fine grained quartz fragments surrounded by white tremolite that grades to blue-green locally. Very distinctive highly leucocratic rock.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375677	UTM: 531179	E	UTM: 7118628	N	Sample Width: 12x3x1 cm	Abundance: Common
	Elevation:	m				

Comments: Typical intrusive - coarse grained mixture of feldspar with various shades of quartz grains. Grey to black. Traces of biotite and black tourmaline.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375678	UTM: 531103	E	UTM: 7118674	N	Sample Width: 5x4x3 cm	Abundance: Common - typical of leucocratic boulders
	Elevation:	m				

Comments: Medium to coarse grained mixture of feldspar and quartz with minor institual muscovite and traces of euhedral red garnet

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
B375679	UTM: 531103	E	UTM: 7118674	N	Sample Width: 15x5x3 cm	Abundance: Common - typical of darker grading to pegmatite boulders
	Elevation:	m				

Comments: Coarse grained mixture of feldspar and light to dark grey quartz plus flakes and books of biotite and black tourmaline. Large (~2 cm) feldspar phenocryst.

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H248813	UTM:	524905	E	UTM:	7122118	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Calcite vein float with coarse crystals, and rotted, dark rusty limonite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H248814	UTM:	518709	E	UTM:	7121462	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Quartz vein material with up to 10% galena

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H248815	UTM:	525753	E	UTM:	7121104	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Yellowish black limonite after pyrite, some botryoidal goethite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H248816	UTM:	524844	E	UTM:	7122168	N	Chip	
	Elevation:		m				Sample Width:	Abundance:

Comments: Limestone from TR-09-02 0-2 m

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H248817	UTM:	524844	E	UTM:	7122168	N	Chip	
	Elevation:		m				Sample Width:	Abundance:

Comments: Limestone from TR-09-02 2-4 m

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H248818	UTM:	524844	E	UTM:	7122168	N	Chip	
	Elevation:		m				Sample Width:	Abundance:

Comments: Limestone from TR-09-02 4-6 m

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H248819	UTM: 524844	E	UTM: 7122168	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Limestone from TR-09-02 6-8 m

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H248820	UTM: 524844	E	UTM: 7122168	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Limestone from TR-09-02 8-10 m

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C386142	UTM: 524844	E	UTM: 7122168	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Brownish weathering, slightly rusty quartz vein with minor pyrite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C386143	UTM: 527490	E	UTM: 7120360	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Brown, coarse-grain siderite with some crumbly yellow/orange limonite in middle.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C386144	UTM: 525518	E	UTM: 7120518	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Coliform banded white/grey rock, with white quartz bandig and dark, black greasy looking botryoidal to tetrahedral (octahedral?) hard, black streaking mineral as aggregates

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C386145	UTM: 525419	E	UTM: 7120632	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Dense, fine-grained dark purple with regions of light orange-brown crumbly limonite. Few pntagonal crystals replaced by limonite.

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C386146	UTM:	525180	E	UTM:	7120525	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Dense, dark, fine purple +/- orange/brown crumbly limonite. 20 cm float. Striated pyrite crystals have been replaced.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C386147	UTM:	524939	E	UTM:	7120985	N	Specimen	
	Elevation:		m				Sample Width:	Abundance:

Comments: Sligtly brecciated dolomite with siderite/limonite crackle texture.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C386148	UTM:	526533	E	UTM:	7120325	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Rusty altered carbonate

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C386149	UTM:	526687	E	UTM:	7120515	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Rusty, weakly limonitic float

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C386150	UTM:	525021	E	UTM:	7120164	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Rounded, heavy massive purple cobble

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C488070	UTM:	525113	E	UTM:	7120384	N	Float	
	Elevation:		m				Sample Width:	Abundance:

Comments: Light yellow to dark purple goethitic limonite, one heavy 15 cm cobble with some bright yellow and red alteration

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C488071	UTM:	524790	E	UTM:	7122131	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Variously limonitic (to extreme goethitic) replaced limestone

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C488072	UTM:	526686	E	UTM:	7121420	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Purple limonite stained calcite/siderite vein material

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C488073	UTM:	525795	E	UTM:	7121365	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Yellow to slightly greenish yellow stianed pyrite +/- pyrrhtite rich crumbly float, probably volcaniclastic

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C488074	UTM:	527387	E	UTM:	7120109	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Vari-coloured, rotten, porous limonite float, 15 cm cobble

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C488075	UTM:	526302	E	UTM:	7121484	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Massive fine-grained magnetite from volcanic/limestone contact

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C488076	UTM:	527818	E	UTM:	7119949	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Coarse calcite +/- siderite

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488077	UTM:	525729	E	UTM:	7120605	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Cobble of siderite with yellow staining and clacite

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488078	UTM:	525085	E	UTM:	7120540	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Light, weathered pice of rusty limonite

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488079	UTM:	525947	E	UTM:	7120393	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Heavy chunk of rotted yellow/brown limonite with dark purple limonite on outer surfaces

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488080	UTM:	525518	E	UTM:	7120518	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Whitish carbonate with dark brown siderite and fine black/orange weathering

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488081	UTM:	524884	E	UTM:	7120431	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: brecciated carbonate? With 60%+ dark brown matrix (fine siderite?) and some voids with calcite crystals. Fine arsenopyrite staining greyish. Also some rotten orange/yellow limonite.

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488082	UTM:	524921	E	UTM:	7120415	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Crystalline white, fine grained calcite with splotchy orange and dark purple limonite throughout.

Rock Sample Descriptions Project: _____ Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488083	UTM:	524939	E	UTM:	7120985	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Heavy dark purple cobble of fine-grain massive hematite?

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488084	UTM:	530636	E	UTM:	7119125	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Heavy dense metallic dark purple hematite or limonite after pyrrhotite?

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488085	UTM:	530549	E	UTM:	7119418	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Dark purplish-black limonite, 5-7 cm float with globular weathering on one side.

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488086	UTM:	531778	E	UTM:	7120001	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Small cobble of red to purple, mostly botryoidal hematite/limonite

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488087	UTM:	531868	E	UTM:	7119549	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: From 30 cm piece. Dark green skarn with fine tremolite? And pyrrhotite/pyrite. Some surface alteration to limonite

Sample Number:	Grid East:		E	Grid North:		N	Type: Float	Dimension:
C488088	UTM:	531346	E	UTM:	7119530	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Actinolite? Thin white fibrous needles, with surrounding matrix altered orange/black with limonite. Some brown also.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885018	UTM: 525694	E	UTM: 7121975	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 15 x 10 cm) of rusty-brown weathering, dominantly dense, pervasively rusty-brown altered dolomite?? with minor limonite-filled vugs. Limonite is orange to brown boxwork. Rock is very soft, does not react to HCl. Trace quartz. Found on grassy slope with minor talus (dominantly massive light grey limestone and knubbly weathering orange-brown dolomite).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885019	UTM: 525746	E	UTM: 7121878	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (20 x 10 x 6 cm) of knubbly and rusty-brown weathering, strongly weathered, beige to rusty, weakly vuggy, limonitic volcanic? Fragile. In small talus train of knubbly dolomite (breccia?) > limestone > volcanic.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885020	UTM: 525769	E	UTM: 7121841	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (13 x 10 x 6 cm) of dark purple-rusty weathering, heavy, dense siderite/goethite with rare, small patches of boxwork limonite and rare calcite. Only piece this "juicy," but there are several pieces in this 2 x 1 m frost-heaved soil/float patch that are similar to H885019.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885021	UTM: 525770	E	UTM: 7121840	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 10 x 10 cm) of orange-brown weathering, strongly altered or weathered, orange-beige, non-reactive volcanic with appromately 6 x 6 x 6 cn pocket of purple ferricrete with small (< 5 mm) clasts of same rock type. Found in small soil exposure on moss, about 1-2 m above H885020. The part of the sample that is not ferricrete appears to be crackle brecciated on a larger scale. Also, there is a narrow (about 5 mm) quartz >> limonite filled fracture that cuts the rock.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885022	UTM: 525782	E	UTM: 7121811	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 15 x 6 cm) of weakly rusty-white weathering, weakly rusty quartz vein with minor orange-rusty boxwork limonite in patches and along narrow fracture. 3/4 of the surfaces are relatively smooth weathering, white the 4th has well developed quartz crystals (up to 1.3 cm in diameter) and a thin limonite coating. Sample was in float, 1 m below galena bearing limonite (H885025).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885023	UTM: 525786	E	UTM: 7121824	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 7 fragments of dominantly fine ferricrete with rare quartz and rarer limonite. Taken from 10 x 5 m area of moderate float on grassy slope. These fragments are pervasive throughout area, but only minorly abundant. No rep.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885024	UTM: 525786	E	UTM: 7121824	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 15 x 6 cm) of rusty weathering, banded orange, altered volcanic (0.5 cm), dense quartz vein (5 mm), quartz/orange limonite (2 cm), dark purple dense limonite (1.5 mm), small quartz crystals with space between (1 cm) and dense quartz vein (5 mm).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885025	UTM: 525780	E	UTM: 7121810	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Undifferentiated rusty sericitic? limonite with minor, small quartz crystals and blebs and same rock type with up to about 5% blebby galena. About half and half both types. 10 fragments collected from 40 x 40 cm area exposed in approximately 20 x 20 m patch of soil and float on dominantly grassy slope. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885026	UTM: 525780	E	UTM: 7121810	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 10 x 4 cm) of rusty, fairly dense limonite with blebby, white, opaque quartz and < 5% blebby galena. In same location as H885025.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885027	UTM: 525766	E	UTM: 7121806	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 10 fragments of ferricrete (rusty-purple, fine) and goethite-rich limonite collected from shallow depression on grassy slope. Majority of fragments were taken from piles of soil/rock at the mouths of several gopher holes. Popular spot to dig! Collected over 5 x 2 m area. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885028	UTM: 525768	E	UTM: 7121806	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of dark purple to black to rusty weathering, goethite? rich ferricrete/limonite with rare to minor quartz clasts (about 1 cm diameter). 3 very similar cobbles found within 50 cm diameter area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885029	UTM: 525753	E	UTM: 7121806	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 13 fragments of dominantly quartz vein, some with minor rusty limonite. All fragments exposed in piles at mouths of gopher holes. Collected above H885028, over an 8 x 2 m area. Still minor ferricrete/limonite in float, but mostly quartz.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885030	UTM: 525753	E	UTM: 7121810	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (30 x 20 x 15 cm) of rusty quartz vein with pods of rusty limonite and rare blebs of pyrite. Also, rare "clasts?" of a soft, light grey mineral or rock (does not look economic).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885031	UTM: 525725	E	UTM: 7121825	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 3 small cobbles of dark purple, dense and heavy goethite in float with 3 cobbles/blocks of light yellowish-brown weathering, white quartz vein, which appears barren.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885032	UTM: 525698	E	UTM: 7121905	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 15 fragments of rusty-purple weathering, non-calcareous, rusty-black, very soft siderite/shale? with small areas of tiny white quartz crystals and limonite. Collected over 8 x 2 m area in talus train (8 m parallels contours).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885033	UTM: 525695	E	UTM: 7121906	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (30 x 25 x 6 cm) of dense, rusty siderite? with narrow (< 5 mm) bands of black, weakly oily looking goethite?

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885034	UTM: 525688	E	UTM: 7121892	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (30 x 20 x 20 cm) and several smaller cobbles of rusty-purple-brown, heavy and dense siderite and goethite? If there is altered volcanic or sedimentary rock, cannot tell. 5 fragments sampled across 5 m width (parallel to countours). At break in slope (shallower uphill, steeper downhill).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885035	UTM: 525647	E	UTM: 7121917	N	Sample Width:	Abundance:
		m				

Comments: 1 cobble (15 x 10 x 4 cm) of rusty-brown-grey weathering, light bluish-grey, non-calcareous, fine grained sedimentary rock with areas of greenish alteration and abundant pockets of rusty boxwork limonite. Several others like it in area, 1 of which is domantly ferricrete.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885036	UTM: 525578	E	UTM: 7121959	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 8 fragments of quartz +/- carbonate (orange-brown) +/- calcite vein with minor limonite patches and pockets in pseudo-creek to NW of anomalous soil location.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885037	UTM: 525580	E	UTM: 7121909	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 10 x 6 cm) of rusty, dense, siderite +/- goethite with minor boxwork limonite with trace, fine, residual pyrite. In dominantly limestone talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885038	UTM: 525467	E	UTM: 7121805	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 10 x 8 cm) of rusty-brown, heavy, limonite/calcite vein or pod. In float near base of massive tan-grey limestone outcrop. Several blocks near base have quartz +/= calcite veins (up to 2 cm wide) with adjacent carbonate replacement? limonitic pods. In general, this vein/pod material is smaller than the sample (best looking piece in area).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885039	UTM: 525414	E	UTM: 7121869	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (16 x 10 x 10 cm) of rusty-brown weathering, calcite/carbonate/limonite. Can't tell how much is brown carbonate vs siderite/goethite. Lying in limestone talus. Very similar to H885039. Limestone almost has same textural appearance as at Michelle property. Very few cobbles of similar material in this talus train.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885040	UTM: 525390	E	UTM: 7121881	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Another cobble (12 x 8 x 8 cm) of same stuff as H885038 and 039. Within limestone talus train.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885041	UTM: 525379	E	UTM: 7121916	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 10 x 8 cm) of white and brown weathering, white quartz vein with limonite-healed seems and pockets. Lying in float on south side of small creek. Several other cobbles and blocks of quartz vein, some with minor limonite, in the area.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885042	UTM: 525517	E	UTM: 7121746	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 small cobble (10 x 6 x 4 cm) of orange-brown, fine ferricrete? (may be limonite, especially in part). Just poking out of moss where only minor talus is exposed. No rep. Parts react moderately to HCl (brown carbonate?).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885043	UTM: 525546	E	UTM: 7121778	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 x 0.5 m area of moderately abundant, rusty-brown, limonite-altered carbonate fragments. 1 cobble (12 x 8 x 5 cm) of locally limonitic brown carbonate with 3 mm wide quartz vein was sampled.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885044	UTM: 525428	E	UTM: 7121952	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 6 fragments of rusty-orange-brown, dense to pseudo-boxwork limonite, rarely with strongly altered orange limestone. Taken from float on N band of creek. Largest cobble is 15 x 10 x 6 cm.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885045	UTM: 525435	E	UTM: 7121941	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (10 x 10 x 10 cm) of rusty-grey weathering, grey quartz vein with minor rusty limonite in pods and a grey-black, shiny rock clast (shale?). May also have trace residual sulphides - pyrite? Too fine to tell.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885046	UTM: 525557	E	UTM: 7121889	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (13 x 8 x 4 cm) and 1 fragment of rusty-purple, fairly dense goethite with trace boxwork limonite. In false drainage with dominantly limestone talus. Only pieces like this in area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885047	UTM: 525606	E	UTM: 7121828	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (40 x 30 x 15 cm) of medium brown weathering, medium brown carbonate and maybe altered limestone? with galena, bismuthinite and quartz vein in irregular veins and pods. Barely exposed on mossy slope. Galena is about 20%, hard to tell due to irregularity. Smashed up the rock and randomly collected 10 fragments. Minor cerussite on galena. Reddish-brown crystal, weakly striated, more or less cubic - don't know what it is. Weak, pale greenish tinge on some weathered surfaces of galena - indicative of arsenopyrite? At N edge of shallow gully.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885048	UTM: 525611	E	UTM: 7121825	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (10 x 10 x 8 cm) of brown-white weathering, quartz vein with abundant pockets of brown carbonate and blebby galena *about 10%). Minor weakly limonitic vugs. Found just downhill of H885047. Only galena found in the area, other than H885047. At north edge of shallow gully.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885049	UTM: 525621	E	UTM: 7121822	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (10 x 8 x 6 cm) of rusty, moderately dense to boxworky limonite in brown carbonate and minor white calcite. Locally vuggy. Found downhill (E) and S of H885047. No rep. At N edge of shallow gully.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885050	UTM: 525625	E	UTM: 7121840	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 12 x 3 cm) of rusty-brown weathering, goethite-healed, clast-supported breccia with light orange, altered limestone? clasts. Clasts make up about 70% of sample while goethite is about 30%. In weakly orange-brown stained limestone talus train. 1 small fragment of quartz vein with blebby galena was also found at the head of this train - too small to sample.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885051	UTM: 525665	E	UTM: 7121832	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 fragments and 1 small cobble of rusty-purple, heavy, dominantly goethite in float. Cobble is vuggy. Colelcted in area of miner to moderate talus on grassy/mossy slope. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885052	UTM: 525648	E	UTM: 7121829	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 cobbles of purple-brown weathering, orange-rusty-black, moderately dense, almost sandy in texture, limonite-altered rock (can't tell parent) with shaley? (black, smooth) bits. In dominantly weakly orange weathering limestone talus train. Also found a small cobble (too small to sample) of heavy, dense goethite in float in area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885053	UTM: 525376	E	UTM: 7121836	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 8 x 6 cm) of rusty-orange, moderately dense limonite (may be goethite in darker areas). In limestone talus train with minorly abundant fragments of limonitic brown carbonate and calcite veins and pods. Just to N side of weak bench, but likely source is limestone cliff to SW of bench tha has fractures/pits filled with calcite, brown carbonate and limonite.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885054	UTM: 525340	E	UTM: 7121821	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 10 x 12 cm) of medium brown weathering, white clacite and quartz with light brown, goethite-altered limestone? and pods of light orange and dark brown limonite. Within limestone talus, just N of weak bench (see sample H885053 description of location). Rare to minor limonitic bronw carbonate veins and pods in limestone float found between H885053 and here.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885055	UTM: 526062	E	UTM: 7121550	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Near base of extensive talus fan - 1 cobble (15 x 8 x 5 cm) of rusty-purple weathering, rusty, boxwork limonite with minor goethite. Nearby there are 1 cobble and 1 fragment of goethite. 10 steps west there is another, larger cobble of boxwork limonite with goethite and quartz vein.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885056	UTM: 526044	E	UTM: 7121481	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (20 x 10 x 10 cm) of rusty-brown weathering, relatively dense, rusty "limonite" (not goethite) in float within talus train. Rare, smaller fragments of same type in area. Has 2 cm wide layer of altered volcanic along 1 edge.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885057	UTM: 526049	E	UTM: 7121484	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 small cobble (8 x 6 x 4 cm) of rusty, dense limonite with 5-10% blebby galena (bismuthinite?) with rare cerussite on weathered surfaces and boxwork limonite in pockets. 5 or so small cobbles of non-galena bearing goethite and limonite also in area. In extensive talus train. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885058	UTM: 526030	E	UTM: 7121440	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 12 x 6 cm) of rusty weathering, weakly banded, vuggy, rusty limonite and rusty-purple, relatively dense goethite. 1 bleb (3 x 3 mm) of galena. In talus train.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885059	UTM: 525982	E	UTM: 7121386	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (20 x 12 x 7 cm) of rusty-grey weathering, grey to rusty, strongly limonite-altered volcanic? Doesn't look like classic boxwork limonite, nor is it dense - abundant small holes. In western talus train.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885060	UTM: 526071	E	UTM: 7121387	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 8 x 6 cm) of rusty to dark purple weathering, heavy, fairly dense goethite with trace orange boxwork limonite. In talus train, about 20 m from CC62408.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885061	UTM: 526024	E	UTM: 7121347	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (8 x 8 x 8 cm) of rusty weathering, minorly to moderately limonitic quartz vein in float within limestone talus train, about 20 m above CC62407. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885062	UTM: 526059	E	UTM: 7121302	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 6 fragments (about 5 x 3 x 3 cm) of rusty brown, some are weakly banded limonite and goethite. Locally vuggy. All within 2 x 1 m area on limestone talus slope. More, smaler fragments in area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885063	UTM: 525970	E	UTM: 7121229	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 12 x 6 cm) of rusty weathering, strongly limonite-altered volcanic. Abundant rusty boxwork limonite-filled vugs within orange-altered host. Minor hairline fracture with limonite. Several smaller pieces also in float in the area. Dominantly limestone talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885064	UTM: 525966	E	UTM: 7121143	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 12 small chips of brown carbonate +/- goethite +/- boxwork limonite +/- calcite found over 15 x 2 m in talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885065	UTM: 525974	E	UTM: 7121145	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 75 cm chip sample across (apparent) thickness of massive, well fractured, orange and white weathering quartz vein with poddy and blebby bismuthinite (+ galena?) and limonite. Difficult to estimate overall bismuthinite percentage due to irregularity. Bolck is about 1.5 x 0.75 x 0.50 m. One other block (slightly smaller) 2 m uphill has minor bismuthinite. Several much smaller blocks and cobbles below here.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885066	UTM: 525994	E	UTM: 7121151	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (10 x 10 x 7 cm) of rusty-brown weathering, calcite + brown carbonate + quartz vein wtih orange-rusty limonite. In float with limestone talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885067	UTM: 526075	E	UTM: 7121163	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 6 fragments of rusty to dark purple, fairly dense sericitic and goethitic limonite in float within 2 x 2 m area in limestone talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885068	UTM: 526097	E	UTM: 7121185	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 10 fragments of rust to purple, locally goethitic, fairly heavy limonite in float around CC62482 (strongly anomalous Au soil). Collected within 3 x 3 m area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885069	UTM: 526152	E	UTM: 7121178	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 10 x 7 cm) of rusty weathering, quartz >> brown carbonate > calcite vein with orange to rusty limonite (boxwork in places). In float within dominantly green volcanic talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885070	UTM: 526088	E	UTM: 7121125	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Top of mineralized talus train, 3 m wide at top, above this is limestone talus. Across this width is abundant dark purple goethitic limonite and quartz vein with pits and pockets of rusty limonite. 1 block (25 x 25 x 13 cm) of dark purple, goethitic limonite sampled. Contains minor quartz vein.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885071	UTM: 526081	E	UTM: 7121132	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (30 x 20 x 12 cm) of weakly rusty weathering quartz vein with about 5-10% bismuthinite (elongated, soft, silver crystals). In same mineralized talus train as H885070, near base of concentrated float.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885072	UTM: 526081	E	UTM: 7121130	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 8 fragments from cobbles of dark purple, heavy, very goethite-rich limonite within 3 x 2 m area. In same talus train as H885070 and 071.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885073	UTM: 526077	E	UTM: 7121131	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 9 randomly selected fragments from a large block (at least 1.5 x 0.6 x 0.3 m - can't tell exact dimensions because partially burried) of orange-white quartz vein with 2-5% (on exposed face) bismuthinite (elongated, soft, silver mineral). At western edge of same mineralized talus train as previous 3 samples.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885074	UTM: 526161	E	UTM: 7121088	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 cobbles of rusty, heavy, goethitic limonite in float (a few more downhill) within limestone talus. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885075	UTM: 524100	E	UTM: 7121252	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (30 x 30 x 8 cm) of rusty-purple-brown weathering, dark purple-brown, heavy, knubbly goethite with rare rusty boxwork limonite (particularly lining pits). Lying wihtin limestone talus blocks.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885076	UTM: 524089	E	UTM: 7121259	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: About 30 fragments of dominantly dark purple-brown, heavy and dense goethite with rare rusty boxwork limonite taken within approximately 30 x 30 m area. Limonite is hidden in amongst limestone blocks and is best exposed in soil/grass patches. No outcrop in area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885077	UTM: 524170	E	UTM: 7121360	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: At soil sample CC62692 (strongly anomalous for gold). Very localized, weakly rusty-grey and rarely purple weathering, limonite and goethite altered limestone? (no reaction to HCl). Only rock of interest in the area. 4 small cobbles and several small fragments in area. 30 fragments collected in all.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885078	UTM: 524720	E	UTM: 7121660	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 10 x 5 cm) of rusty-purple, heavy goethite and limonite in float on grassy slope, about 40 m below distinct linear. Linear divides abundant limestone talus above from grass below. No outcrop in area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885079	UTM: 524730	E	UTM: 7121657	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (30 x 12 x 9 cm) of dark purple, heavy and dense goethite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885080	UTM: 524722	E	UTM: 7121650	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Composite sample of about 20 chips of goethite > dense limonite >> boxwork limonite taken from float over a 30 m width (by 10 m panel). Dominantly small fragments, though some pieces are from cobbles.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885081	UTM: 524723	E	UTM: 7121650	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (30 x 25 x 15 cm) of rusty-purple weathering, goethite > limonite with quartz vein. Mineralization cuts beige, fine grained, slightly shiny, non-calcareous siltstone.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885082	UTM: 524762	E	UTM: 7121661	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (8 x 8 x 5 cm) of dark purple, knubbly weathering, goethite in float on grass with limestone talus. Second cobble found nearby but not sampled. Float of all rock types is very rare above this.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885083	UTM: 524792	E	UTM: 7121651	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 8 fragments from cobbles of purple-brown to rusty goethite with minor limonite and quartz vein and rare boxwork limonite. All cobbles within 2 x 1 m area on bench of prominent linear.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885084	UTM: 524612	E	UTM: 7122000	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 3 small cobbles of purple-brown weathering, goethite "coated," rusty boxwork limonite in float on grassy slope. Very little rock exposure. Potential area of interest (as delineated by vegetation anomaly and rusty soil) is about 15 m wide at this point. No rep. 1 more cobble found nearby but not sampled.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885085	UTM: 524870	E	UTM: 7122145	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 5 small cobbles of rusty-brown weathering limestone with rusty-brown limonite?, brown carbonate, calcite and minor quartz in pods and pits.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885086	UTM: 524893	E	UTM: 7122147	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 6 small cobbles of rusty-purple-brown weathering, dominantly goethitic limonite, often with minor quartz vein and trace orange boxwork limonite. At base of 15-20 m wide gap between limestone outcrop (fault?).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885087	UTM: 524907	E	UTM: 7122151	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (20 x 12 x 10 cm) of dark purple, goethite with light brown mud (soft) at centre and minor vug-lining quartz. Appears to have fallen down from structure at top of limestone outcrop, about 20 m uphill, where there is abundant material of this type.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885088	UTM: 524890	E	UTM: 7122111	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (15 x 9 x 4 cm) of purple-black weathering, dark brown and clear goethite/calcite vein with trace pockets of rusty limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885089	UTM: 525024	E	UTM: 7122155	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 5 pieces of strongly limonite-altered volcanic taken from upper (southern) contact of volcanic with limestone. Has typical limonite-filled pits.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885090	UTM: 497304	E	UTM: 7143916	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Stop 1 A. 4 m wide band of abundant med-dark brown limonite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885091	UTM: 487326	E	UTM: 7143985	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Stop 1 B. 4 m wide band of abundant medium to dark brown limonite fragments, with a broader approximately 20 m band of scattered limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885092	UTM: 495400	E	UTM: 7144628	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Stop 2. Orangy- dark brown limonite fragment (ran high with XRF)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885093	UTM: 495400	E	UTM: 7144628	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Altered volcanic (ran fairly low)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885094	UTM: 495400	E	UTM: 7144628	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 fragments of dark brown limonite (mod values)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H885095	UTM: 495400	E	UTM: 7144628	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 fragments of dark brown limonite (ran low with XRF)

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H885096	UTM:	495400	E	UTM:	7144628	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 3 fragments of limonite-limestone breccia.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H885097	UTM:	492493	E	UTM:	7145079	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 6 small fragments of dark brown limonite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H885098	UTM:	492493	E	UTM:	7145079	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Small cobble of weakly brecciated limestone with light brown limonite cement.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H885099	UTM:	488239	E	UTM:	7145329	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Stop 4. 2 fragments of brown limonite.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H885100	UTM:	488239	E	UTM:	7145239	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Stop 4. Rusty-grey weathering, limonitic limestone with chert.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884951	UTM:	488239	E	UTM:	7145239	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Stop 4. Medium brown, limonite altered carbonate.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884952	UTM: 526208	E	UTM: 7121059	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 6 small cobbles of rusty-purple-brown weathering, heavy goethite and limonite with small holes. In float at margin of limestone/volcanic talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884953	UTM: 526186	E	UTM: 7121051	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (10 x 10 x 5 cm) of rusty limonite with 2 - 5% bismuthinite (may be galena?). Found within limestone blocks.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884954	UTM: 526170	E	UTM: 7121033	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 10 x 7 cm) of rusty-orange goethite and minor quartz in limonite-healed altered carbonate? (dominantly limonite/goethite). 1 bleb bismuthinite. In limestone talus with several cobbles of goethite-rich limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884955	UTM: 526149	E	UTM: 7121017	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 5 cobbles of purple-brown, goethite-rich limonite in separate float train from previous 3 samples. Dominantly limestone talus. Mineralized float continues another 10 m to west.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884956	UTM: 526207	E	UTM: 7121019	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble and 3 fragments of rusty-purple-brown sericitic and goethitic limonite with minor clear quartz. In float with limestone blocks.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884957	UTM: 526212	E	UTM: 7120985	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 4 cobbles of orange limonite (with minor limonite-altered limestone) with 5 - 10% blebby bismuthinite. In float with limestone blocks.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884958	UTM: 526218	E	UTM: 7120985	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble orange limonite (with minor limonite-altered limestone) with 10 - 15% limonite. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884959	UTM: 526226	E	UTM: 7120975	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block (40 x 25 x 20 cm) of rusty-purple-brown weathering, red-purple, heavy limonite in mineralized float train (which is getting more concentrated uphill). Dominantly limestone talus blocks.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884960	UTM: 526189	E	UTM: 7120953	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 12 fragments of rusty-brown weathering, rusty, sericitic > goethitic limonite with minor calcite. Gap between limestone outcrop is 8 m wide, limonite covers 4 m width.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884961	UTM: 526138	E	UTM: 7120963	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (16 x 8 x 5 cm) of goethitic > sericitic limonite. In mineralized float train with several similar cobbles and abundant limonite altered/discolored limestone. Limonite found over 4 m width.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884962	UTM: 526185	E	UTM: 7120930	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 large cobble (25 x 13 x 10 cm) of rusty-brown weathering, orange-rusty limonite with blebby bismuthinite (about 5%). Partially burried in grass. Several other cobbles of limonite (no bismuthinite) in area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884963	UTM: 526184	E	UTM: 7120913	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 6 fragments from cobbles and small blocks of rusty-purple-brown weathering, rusty-brown limonite in brown carbonate and calcite. All blocks partly burried in grass.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884964	UTM:	526212	E	UTM:	7120870	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 2 small cobbles and several fragments of rusty-purple-brown weathering, rusty-brown goethite-rich limonite exposed on grassy slope within 1 diameter of each other.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884965	UTM:	526403	E	UTM:	7120832	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Fragments from 6 cobbles of purple weathering, weakly to strongly goethitic limonite with quartz in altered volcanic? Within 2 x 1 m area in volcanic talus.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884966	UTM:	526519	E	UTM:	7120701	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 7 fragments of orange, limonite-altered limestone? and dense sericitic limonite in orange-brown soil at contact between limestone (to south) and volcanic (to north). Orange soil is about 1 m wide.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884967	UTM:	526495	E	UTM:	7120638	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 4 m wide bench of weakly rusty-brown soil with rare fragments of shiny brown carbonate crystals with calcite and minor goethite. Definitely moreso a soil anomaly than rock.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884968	UTM:	526528	E	UTM:	7120921	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 25 or so fragments of limonite (2 main types - frusty, dense limonite and purple, heavy goethite) found within approximately 2 m wide zone of limonite float and altered limestone outcrop between 526517, 7120937 and 526549, 7120905. Structure is either bedding parallel or at shallow angle to bedding. Sight of RC09-02.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884969	UTM:	526392	E	UTM:	7120315	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 10 fragments from cobbles of dark purple goethite and goethite-healed breccia with clasts of orange, altered limestone within 5 x 2 m pod of orange soil and rusty-orange weathering, vuggy, altered limestone? Sight of RC09-14 and CC49717.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884970	UTM:	526373	E	UTM:	7120552	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 1 cobble (12 x 8 x 5 cm) of rusty-purple, heavy, dense goethitic limonite with rare quartz, barely exposed on grassy slope.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884971	UTM:	526375	E	UTM:	7120680	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 1 cobble (14 x 12 x 9 cm) of purple >> rusty weathering, heavy, "holey" goethite with minor calcite and clay-like (white to light orange, soft) altered limestone? or volcanic? Exposed as float on grassy slope with dominantly limestone talus and few localized limonite cobbles and fragments.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884972	UTM:	526373	E	UTM:	7120690	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 1 cobble (15 x 13 x 8 cm) of dark purple weathering, rusty-purple-brown, goethitic (locally glassy) limonite with minor vugs. In same area as H884971.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884973	UTM:	523190	E	UTM:	7121130	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 1 cobble of heavy, purple-grey weathering, goethite and limonite altered limestone. From float train with minor rock of this type. No rep.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884974	UTM:	523190	E	UTM:	7121130	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 1 fragment of strongly geothitic limonite - from area as H884073. No rep.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884975	UTM:	524724	E	UTM:	7121650	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 1 cobble (12 x 8 x 4 cm) of purple-brown weathering, rusty-purple, goethitic limonite. Moderately heavy.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884976	UTM: 524494	E	UTM: 7121997	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (12 x 10 x 5 cm) of orange-purple, heavy, goethite (locally glassy) rich limonite. Along linear below "Sarah's soil."

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884977	UTM: 524876	E	UTM: 7121531	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble (20 x 10 x 8 cm) of brown altered limestone with fracture controlled goethite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884978	UTM: 524709	E	UTM: 7121373	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 small fragment of very heavy, orange-purple, geothite-rich limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884979	UTM: 524717	E	UTM: 7122060	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of tan weathering limestone with pod of purple crystals (sphalerite?) in orange limonite. Not abundant in area. No rep.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884980	UTM: 532511	E	UTM: 7122720	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Coarsely crystalline, in part euhedral, white quartz with pale to dark brown limonite on fractures and interstitially.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884981	UTM: 532520	E	UTM: 7122718	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 5 chips of medium to dark brown, ferricrete and limonite boxwork mixed with minor wallrock fragments.

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884982	UTM: 532520	E	UTM: 7122721	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Tremolite, actinolite and ? skarn partially replacing limestone (very difficult to get fresh surface) with pyrrhotite and/or pyrite pitting. Strongly limonitic on fractures.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884983	UTM: 532523	E	UTM: 7122724	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Massive pyrrhotite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884984	UTM: 532436	E	UTM: 7122720	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Dense, fine grained, medium green skarn with disseminated pyrrhotite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884985	UTM: 532607	E	UTM: 7122784	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Strongly weathered, pyrrhotite-bearing, quartz and garnet +/- actinolite skarn. Limonitic throughout.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884986	UTM: 532653	E	UTM: 7122773	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Actively forming ferricrete.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
H884987	UTM: 532708	E	UTM: 7122774	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Euhedral, coarse grained quartz vein with minor limonite?

Rock Sample Descriptions Project: Rau Property: Rau

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884988	UTM:	532769	E	UTM:	7122747	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 1 cm euhedral quartz vein cutting medium green, chlorite-actinolite skarn with trace residual pyrite or pyrrhotite.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884989	UTM:	532873	E	UTM:	7122698	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Massive pyrrhotite.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884990	UTM:	532950	E	UTM:	7122612	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Mottled, siliceous (or albite) fine grained grey matrix, with diopside or hornblende crystals and fine disseminated pyrrhotite throughout.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884991	UTM:	533113	E	UTM:	7122459	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Clear to semi-opaque, euhedral quartz grains with abundant black crystals (striations) - black limonite?

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884992	UTM:	533058	E	UTM:	7122487	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: Fine disseminated pyrrhotite or pyrite in limestone with shaley interbeds - likely against silty rocks, pseudo skarn/hornfels.

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
H884993	UTM:	526422	E	UTM:	7120713	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: 4 small cobbles of dark purple goethite in float with limestone talus.

APPENDIX VIII

GEOLOGICAL AND GEOTECHNICAL LOGS

LITHOLOGY

DOL	Dolomite
FLT	Fault
LST	Limestone
MBL	Marble
VOL	Volcaniclastic
QV	Quartz Vein
MX	Mineralized
OX	Oxide
OVB	Overburden
VOLA	Altered volcaniclastic
DOLM	Mineralized dolomite
SHL	Shale
LEP	Leopard spotted unit

MINERALS

Py	Pyrite
Po	Pyrrhotite
As	Arsenopyrite
Bi	Bismuthinite
Sh	Scheelite
Gn	Galena
Sp	Sphalerite
Li	Limonite
Sd	Siderite
Tc	Talc
Wo	Wolframite
Mag	Magnetite
Hem	Hematite
Qz	Quartz
Mn	Manganese
Cl	Chlorite
Cb	Carbonate

MODIFIERS

MX	Mineralized
ALT	Altered
OX	Oxidized
SAN	Sand
CLY	Clay
RBL	Rubble
FOS	Fossiliferous

ALTERATION

BLE	Bleached
LIM	Limonite
SER	Sericite
DOL	Dolomite
SIL	Silica
HEM	Hematite
SID	Siderite
MBL	Marbleized

TEXTURES

BX	Brecciated
CR	Crackle
MA	Massive
BN	Banded
AM	Amygdaloidal
BO	Boxwork
MO	Mottled
LEP	Leopard Print

STRUCTURE

BD	Bed
FT	Fault
FO	Foliation
VN	Vein
CN	Contact
FR	Fracture

HARDNESS

ES	Extremely Strong
VS	Very Strong
S	Strong
MS	Moderately Strong
W	Weak
VW	Very Weak
EW	Extremely Weak

Weathering

FR	Fresh
SW	Slightly Weathered
MW	Moderately Weathered
HW	Highly Weathered
EW	Extremely Weathered

CONCENTRATIONS

		%	
n	none	0	
t	trace	<1	
tw	trace-weak	1-2	
w	weak	2-3	
f	fair	3-5	
m	moderate	5-7	
ms	moderate-strong	7-10	
s	strong	10-15	
I	intense	15-20	
(%)		>20%	enter the appropriate value

* when used referring to alteration, concentration is qualitative

RAU PROJECT

ZONE: Cub
SECTION: 09+650NW

HOLE: Rau-SC09-01
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528876	7118899	1458	306.33

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-50	compass				

Core size: BTW
Casing depth: 1.52 (m) out

Drilling dates: Aug 16-21, 2009

Logged by: R. Foubister, J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	29.60	29.60	LST	Crackle
29.60	33.85	4.25	VOL	
33.85	73.63	39.78	LST	
73.63	79.70	6.07	VOL	
79.70	112.74	33.04	LST	
112.74	134.54	21.80	MBL	Marbleized limestone
134.54	143.26	8.72	VOL	
143.26	155.00	11.74	MBL	Marbleized limestone
155.00	173.49	18.49	LST	
173.49	182.51	9.02	VOL	
182.51	273.93	91.42	LST	
273.93	306.32	32.39	VOL	

SAMPLES	
Numbers:	H885646-H885660, H885691-H885703
	H885735-H885759
Total:	53
	Batches 42,43,44,45
Certificate:	VA09090672, VA09097200
	VA09094231, VA09098645

COMMENTS

GEOLOGY LOG

HOLE: Rau-SC09-01

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	29.60	29.60	LST		CR																	Medium grey limestone, varying from foliated and banded to heavily brecciated. 10-15% calcite flood/brecciation/veinlets. Mildly fossiliferous. Minor light orangey brown colouration on some fractured surfaces.
						BD	40															0.00-11.33 m: Fairly broken up (<5 cm pieces) and fractured limestone, moderately crackle brecciated with lighter grey clasts and dark grey matrix. Some remnant fossil fragments and occasional bedding at 40 deg to CA. Rare coral mound fragments occur.
						BD	90															11.33-14.93 m: Variably banded limestone, fossiliferous, more competent, and with around 10% calcite flood.
						BD	50															14.93-15.29 m: Limestone is altered to a tan colour and is slightly more gritty. Abundant calcite flood.
																						16.05-19.10 m: More patchy and brecciated with rusty colouration along fractures and carbonate vein margins.
						BD	45															19.10-21.10 m: Generally well foliated with prominent, up to 4 cm crosscutting calcite veinlets sporadically every 5-25cm. Veinlets occur at 250 degrees to the bedding while bedding is at 45 deg
						VN		250														
																						22.50-23.05 m and 24.10-24.70 m: Intense brecciation of more massive limestone. Up to 50% Ca matrix, angular limestone clasts up to 3cm. Appears to be a vein breccia.
29.60	33.85	4.25	VOL			FO	65															Light brownish tan, slightly crumbly and broken altered, foliated (65-70 degree) with Ca sweats, and minor spotted (Mn?) staining. A few blebs of garnet also occur.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																		Sp	t	Gn	t	31.86-33.23 m: Increase in the intensity of black-brown-red staining on fractures. Core also slightly softer/broken up. Trace small grains of garnet, and red-brown sphalerite.
33.85	51.87	18.02	LST			FR	40															Medium to dark grey limestone, fairly massive (except 33.85-34.35 m, which is banded at 70 deg to CA) and lightly to moderately crackled by two phases of brecciation. The first phase is <0.5 cm calcite, followed (?) by very fine thin black lines/cracks. Some blotchy and patchwork texture. The calcite in areas appears to follow the bedding at between 40-50 deg and BK lines do same as well as crosscutting at 90 deg. Trace pyrite in Ca veinlets/blebs.
															w							44.30-45.40 m: Irregular flood/breccia of Ca and fine black sediments within the same limestone. Disseminated pyrite content occurs weakly.
51.87	52.53	0.66	VOL	ALT		FO	60								w							Light brown to light greenish tan foliated, altered volcaniclastic layer. Elongate, stretched Ca amygdules. At upper contact, some large blebs and foliaform pyrite. Throughout the interval, Py occurs as thin stringers and foliaform blebs. 1 cm Qz, Ca, and Py veins crosscut at 180 deg to FO.
						VN		180														
52.53	73.63	21.10	LST			BD	60								t							Same medium to dark grey crackled, banded, patchy, brecciated limestone with a few small scattered blebs of pyrite. Where bedding remains, (light and dark foliated) it occurs at 60 deg to CA.
73.63	79.70	6.07	VOL			FO	45								t			Sp	t			Gradual transition into light brown tan layered volcaniclastic, interbedded with varyingly bleached, tan-brown limestone. Foliaform blebs of Py and fine-grained reddish blebs that may be sphalerite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						73.63-74.20 m: Almost all tan altered volcaniclastic, more broken up. Light to dark tan-grey limestone, generally more banded and less brecciated than previously. Several sections of darker tan (bleached?) limestone. Still minor crackle brecciated. Occasionally fossiliferous. Pyrite has all but disappeared.
																						77.86-79.70 m: Especially bleached dark tan section (at the volcaniclastic contact) a few thin interbeds of volcaniclastic. Trace crinoids.
79.70	79.94	0.24	CA			VN																Large Ca vein, a few other long/thin low angle Ca veinlets nearby.
79.94	112.74	32.80	LST			BD	60															Banded light and dark grey limestone. Fairly uniform. At ~84.00 m coarse grained Ca veinlets up to 8 cm thick occur at 45 deg to CA. The limestone seems to fold from 60 deg to CA to 60 deg to CA to the other way.
						VN	45															
																						84.35-87.30 m: Tan bleached layers interbedded. Often fine grained with some small crinoids. Gradually fades out.
																						87.30-91.58 m: Massive, fine grained homogeneous dark grey/tan limestone.
						BD	65								t							91.58 m: Back to well bedded, light and dark grey banded limestone. Quite uniformly bedded at 65-70degrees. <5% crinoids.
																						94.23-94.86 m and 95.60-95.90 m: Calcite flood (~5%) occurs subparallel to bedding.
																						99 m: Some fractures, on bedding planes are graphitic.
						BD	60															109 m: Bedding occurs at 60 deg to CA.
112.74	134.54	21.80	MBL																			Mainly light grey marble/marbleized limestone (75%) interbedded with 25% darker grey to black banded limestone. Local minor red-brown staining on fractures, and prominent planar crosscutting Ca veinlets.
						BD	65															113 m: Bedding occurs at 65 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						115-118 m: Massive marble, with darker grey stylolitic bands.
						BD	60															120.00-126.70 m: Uniformly banded light and dark grey limestone with a few small crinoid fossils and trace pyrite occurring as blebs replacing calcite. Bedding occurs at 60 deg to CA. Prominent calcite veinlets occur every 0.5-2 cm crosscutting at 40 deg to CA, and 180 deg to bedding.
						VN	40	180														
																						127.50-127.80m Light grey marbleized limestone with foliations bending (augen style) around 2-5 cm nodules of hematite stained Ca?
						BD	65															128.90-129.15m and 129.30-129.60m Ca veins, irregularly crosscutting, with some fine lighter brown (siderite? Throughout).
																						134.54 m: Grades into whitish tan marble.
134.54	143.26	8.72	VOL																			Dark green, chlorite altered volcaniclastic with up to 20% calcite filled amygdules, usually oval-shaped and aligned with the foliation. Irregular distribution with some sections almost massive and dark green in colour. Some irregular Qz/Ca veinlets/flood with chlorite alteration, and minor light pink blebs.
143.26	155.00	11.74	MBL			FO	60								t							White to light grey marble grading into marbleized limestone with interbedded darker grey limestone. Trace blebs of pyrite in the marble. Foliation occurs at 60 deg to CA.
																						143.20-146.30 m: Nearly pure white marble, mostly massive with a few dark grey bands.
																						145.20-145.60 m: Orange stained marble.
155.00	173.49	18.49	LST			BD	65								w							Interbedded light and dark grey limestone, fairly fossiliferous with corals and crinoids fragments. Minor Ca flood. Increase in pyrite as fine blebs and small foliaform stringers.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															w							168.50-173.49m Especially fossiliferous (~10% crinoids) and banded with less light (MBL) layers, more DK LST and increase in fine DI/blebs Py, especially concentrated in darker layers.
173.49	182.51	9.02	VOL			FO	60								t		w					Interbedded light brown/tan volcaniclastic (50%) and grey to white sucrosic marble. Well banded with fine volcaniclastic layers and massive marble. Fine pyrrhotite concentrated in thin foliaform stingers and disseminated within volcaniclastic layers. Foliation varies from 50-65 deg to CA, usually quite continuously at 60. Remnant coral mound textures occasionally visible especially at 178.70 m. The last 5 cm are somewhat more crumbly and brownish orange in colour.
182.51	185.93	3.42	LST												w		f					Transitional banded limestone with fine, wispy banded tan layers (10%) of VOL and fine sericite. Fair foliaform stringers and fine blebs of pyrrhotite throughout. (Mag sus >1) Rarer associated fine Py.
185.93	194.76	8.83	LST			BD	70								t							The limestone loses the volcaniclastic layers gradually along with the associated pyrrhotite. By now only minor medium-grained concentrations of Py occur along a few fractures. Limestone is banded to brecciated light/dark grey with a few Qz and Ca flooded areas.
																						188.58-190.88 m: Very chaotic and somewhat brecciated, with no sense of foliation and increased crosscutting quartz-calcite veinlets (~5%). At 189.50 m, 20 cm jumbled/displaced pure Qz/Cb vein flood.
						FO	70															192.00 m: Foliation occurs at 70 deg to CA.
																						194.48-194.76 m: Slightly orange stain on fractures that cut the white marble.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
194.76	213.21	18.45	LST			BD	50								w		w	Cp	t			Same dark and light grey banded limestone, with increased Po, Py as small foliaform blebs/stringers. ~10% interbedded banded volcaniclastic as 10-60 cm layers, with associated marbleization of the surrounding limestone. Thin sericite laminations occur throughout.
						FO	70								t		f	Cp	w			198.42-198.62 m: Light brown volcaniclastic layers are surrounded by 5 cm of marble and are mineralized with fine Py/Po stringers. Large subrounded Ca/Qz blebs (1cm) occur with associated Po/Cp. Foliation occurs at 70 deg to CA.
						VN		260							w		w	Cp	t			201.55-201.98 m: Same light brown volcaniclastic layers with less mineralization occurring associated with the foliation. Crosscutting calcite veinlets cut the foliation at 260 deg, with blebs of Po and trace blebs of Cp.
															t		f					208.15-208.42 m: Thin volcaniclastic layers with occasional foliaform stringers and bands of fine grained pyrrhotite.
																						209-211 m: More marbleized massive limestone.
															t		f	Cp	t			212.82-213.21 m: Interbedded marble and volcaniclastic with a few tan sericite stringers and foliaform bands. Trace disseminated Cp.
213.21	271.27	58.06	LST												t		t	Cp	t			The limestone no longer contains volcaniclastic interlayers. It is variably banded with trace blebby pyrrhotite and pyrite. The unit has also become quite fossiliferous. Banding occurs at 60-65 deg to CA. There are up to 1% small, black, square crystals disseminated within the limestone. Trace small grains of chalcopyrite are associated on the margins of with blebs of pyrrhotite . After 260 m, banding is not as dominant but still quite fossiliferous. Pyrrhotite content slowly decreases as well, and pyrite is all but absent.
						BD	60															260.00 m: Bedding is at 60 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																	t					263.00-270.09 m: Generally lighter grey, more massive limestone. Characterized by 0.1 x 1 mm sub foliaform thin dark slivers, <3%. Unknown composition.
																	f					270.09-270.44 m: Darker, banded limestone with an increase in Po in foliaform blebs.
271.27	273.93	2.66	MBL			FO	70								w							Whitish marble interbedded with tan to maroon to grey thin volcaniclastic layers (30-40%) and stringers of pyrrhotite. Foliation occurs at 70 deg to CA.
273.93	288.56	14.63	VOL			FO	60										w					Fine-grained, dark green to slightly maroon, weakly foliated volcaniclastic with thin elongate blebs of chlorite altered calcite amygdules. A few thin Ca veinlets crosscut at various angles.
																	t					282.70-288.56 m: Whitish MBL w/interbedded thin MN/TN VOL layers.
																						286.30-288.56m Slightly darker and more greenish with tiny black spots.
288.56	306.32	17.76	VOL												t			Cp	t			Homogenous, dark green, fine-grained massive to slightly foliated volcaniclastic with light speckling of darker green grains. Small (<1 cm) Ca veinlets crosscut. There are a few specks of Py and Cp. Occasional regions of elongate calcite amygdules (which have been altered to chlorite ??).
																						288.87-289.12 m: Increase in the presence of amygdules (up to 50%), some up to 1-2cm. Most are Ca-filled but a few have associated disseminated Py within. Generally weakly foliated at 50 deg to CA. Calcite has been altered to chlorite on most of the fractures. Veinlets occur at 30-70 deg to CA. Minor pinkish red blobs occur near one of the fractures - hematite alteration?
																						306.32 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-SC09-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.99	3.05	1.06	1.06	100	0.00	0	MS	FR	
3.05	4.57	1.52	1.33	88	0.35	23	MS	FR	
4.57	5.33	0.76	0.65	86	0.00	0	MS	FR	
5.33	6.10	0.77	0.77	100	0.15	19	MS	FR	
6.10	7.62	1.52	1.48	97	0.73	48	MS	FR	
7.62	9.14	1.52	1.52	100	0.55	36	MS	FR	
9.14	10.67	1.53	1.48	97	0.72	47	MS	FR	
10.67	12.19	1.52	1.53	101	1.01	66	MS	FR	
12.19	13.72	1.53	1.34	88	0.85	56	MS	FR	
13.72	14.63	0.91	0.73	80	0.30	33	MS	FR	
14.63	15.85	1.22	1.22	100	0.67	55	MS	FR	
15.85	16.76	0.91	0.91	100	0.88	97	MS	FR	
16.76	18.29	1.53	1.53	100	1.23	80	MS	FR	
18.29	21.34	3.05	2.90	95	2.03	67	MS	FR	
21.34	22.86	1.52	1.52	100	1.33	88	MS	FR	
22.86	24.38	1.52	1.52	100	0.87	57	MS	FR	
24.38	25.91	1.53	1.52	99	1.35	88	MS	FR	
25.91	27.43	1.52	1.52	100	1.27	84	MS	FR	
27.43	28.96	1.53	1.53	100	1.40	92	MS	FR	
28.96	30.94	1.98	1.60	81	0.63	32	MS	FR	
30.94	33.53	2.59	2.47	95	1.78	69	MS	FR	
33.53	36.58	3.05	2.95	97	2.70	89	MS	FR	
36.58	39.62	3.04	3.05	100	2.65	87	MS	FR	
39.62	42.67	3.05	3.05	100	2.68	88	MS	FR	
42.67	45.72	3.05	3.05	100	2.31	76	MS	FR	
45.72	48.77	3.05	3.05	100	2.80	92	MS	FR	
48.77	51.82	3.05	3.05	100	2.75	90	MS	FR	
51.82	54.86	3.04	3.05	100	1.83	60	MS	MW	
54.86	57.91	3.05	3.05	100	2.76	90	MS	FR	
57.91	60.96	3.05	3.05	100	2.74	90	MS	FR	
60.96	64.01	3.05	3.05	100	3.05	100	MS	FR	
64.01	67.06	3.05	3.02	99	2.91	95	MS	FR	
67.06	70.10	3.04	3.05	100	2.87	94	MS	FR	
70.10	73.15	3.05	3.05	100	2.58	85	MS	FR	
73.15	76.20	3.05	3.03	99	1.90	62	MS	FR	
76.20	78.03	1.83	1.66	91	1.13	62	MS	FR	
78.03	80.77	2.74	2.74	100	1.74	64	MS	FR	
80.77	83.51	2.74	2.70	99	0.54	20	MS	FR	
83.51	86.56	3.05	2.94	96	2.01	66	MS	FR	
86.56	88.70	2.14	1.80	84	0.55	26	MS	FR	
88.70	71.75	3.05	2.83	93	1.77	58	MS	FR	
91.75	82.66	0.91	0.91	100	0.70	77	MS	FR	
92.66	95.71	3.05	3.03	99	1.70	56	MS	FR	
95.71	98.76	3.05	2.97	97	1.73	57	MS	FR	
98.76	101.80	3.04	3.04	100	1.95	64	MS	FR	
101.80	103.63	1.83	1.52	83	1.60	87	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
103.63	106.68	3.05	2.86	94	2.58	85	MS	FR	
106.68	106.98	0.30	0.30	100	0.25	83	MS	FR	
106.98	109.58	2.60	2.60	100	2.04	78	MS	FR	
109.58	112.78	3.20	3.15	98	2.38	74	MS	FR	
112.78	115.38	3.04	3.04	100	2.42	80	MS	FR	
115.82	118.41	2.59	2.51	97	1.32	51	MS	FR	
118.41	121.46	3.05	3.05	100	2.33	76	MS	FR	
121.46	123.44	1.98	1.98	100	1.92	97	MS	FR	
123.44	126.49	3.05	3.05	100	2.59	85	MS	FR	
126.49	128.32	1.83	1.75	96	0.69	38	MS	FR	
128.32	131.06	2.74	2.74	100	1.83	67	MS	FR	
131.06	133.96	2.90	2.90	100	1.73	60	MS	FR	
133.96	137.16	3.20	3.13	98	2.39	75	MS	FR	
137.16	140.20	3.04	3.05	100	2.24	74	MS	FR	
140.20	143.26	3.06	2.95	96	2.25	74	MS	FR	
143.26	146.30	3.04	3.04	100	2.67	88	MS	FR	
146.30	149.35	3.05	3.05	100	2.67	88	MS	FR	
149.35	152.40	3.05	3.05	100	3.05	100	MS	FR	
152.40	155.45	3.05	3.05	100	3.05	100	MS	FR	
155.45	158.50	3.05	3.05	100	3.05	100	MS	FR	
158.50	161.54	3.04	3.04	100	2.95	97	MS	FR	
161.54	164.59	3.05	2.99	98	2.90	95	MS	FR	
164.59	167.64	3.05	2.93	96	2.86	94	MS	FR	
167.64	170.69	3.05	3.05	100	2.95	97	MS	FR	
170.69	173.74	3.05	3.02	99	2.82	92	MS	FR	
173.74	176.78	3.04	3.05	100	2.95	97	MS	FR	
176.78	179.83	3.05	3.01	99	2.75	90	MS	FR	
179.83	182.88	3.05	3.00	98	2.86	94	MS	FR	
182.88	185.93	3.05	3.05	100	3.05	100	MS	FR	
185.93	188.98	3.05	3.05	100	2.79	91	MS	FR	
188.98	192.02	3.04	2.97	98	2.51	83	MS	FR	
192.02	195.07	3.05	3.00	98	1.93	63	MS	FR	
195.07	198.12	3.05	3.05	100	3.05	100	MS	FR	
198.12	201.17	3.05	3.05	100	3.03	99	MS	FR	
201.17	204.22	3.05	3.05	100	3.02	99	MS	FR	
204.22	207.26	3.04	3.04	100	3.04	100	MS	FR	
207.26	210.31	3.05	3.05	100	2.91	95	MS	FR	
210.31	213.36	3.05	3.03	99	2.54	83	MS	FR	
213.36	214.41	1.05	3.05	290	2.40	229	MS	FR	
216.41	219.46	3.05	2.94	96	2.87	94	MS	FR	
219.46	222.50	3.04	3.04	100	2.92	96	MS	FR	
222.50	225.55	3.05	3.00	98	2.59	85	MS	FR	
225.55	228.60	3.05	3.05	100	3.05	100	MS	FR	
228.60	231.65	3.05	3.04	100	3.04	100	MS	FR	
231.65	234.70	3.05	3.05	100	3.00	98	MS	FR	
234.70	237.74	3.04	3.00	99	2.89	95	MS	FR	
237.74	240.79	3.05	3.05	100	3.05	100	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
240.79	243.84	3.05	3.05	100	2.90	95	MS	FR	
243.84	246.89	3.05	3.03	99	2.95	97	MS	FR	
246.89	249.94	3.05	3.05	100	3.00	98	MS	FR	
249.94	252.98	3.04	3.03	100	2.75	90	MS	FR	
252.98	256.03	3.05	2.96	97	2.87	94	MS	FR	
256.03	259.08	3.05	3.05	100	3.05	100	MS	FR	
259.08	262.13	3.05	3.00	98	2.87	94	MS	FR	
262.13	265.18	3.05	3.05	100	2.88	94	MS	FR	
265.18	268.22	3.04	2.98	98	2.39	79	MS	FR	
268.22	271.27	3.05	3.05	100	3.00	98	MS	FR	
271.27	274.32	3.05	3.05	100	2.84	93	MS	FR	
274.32	277.37	3.05	3.00	98	2.84	93	MS	FR	
277.37	280.42	3.05	3.05	100	2.64	87	MS	FR	
280.42	283.46	3.04	3.02	99	2.60	86	MS	FR	
283.46	286.51	3.05	3.05	100	2.60	85	MS	FR	
286.51	289.56	3.05	2.84	93	2.71	89	MS	FR	
289.56	292.61	3.05	3.05	100	2.98	98	MS	FR	
292.61	295.66	3.05	3.00	98	2.63	86	MS	FR	
295.66	297.18	1.52	1.52	100	1.34	88	MS	FR	
297.18	300.23	3.05	2.88	94	2.04	67	MS	FR	
300.23	302.06	1.83	1.70	93	1.42	78	MS	FR	
302.06	304.80	2.74	2.74	100	2.66	97	MS	FR	
304.80	306.32	1.52	1.52	100	1.30	86	MS	FR	
	306.32	E.O.H.							

SAMPLE LOG

HOLE: Rau-SC09-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
26.60	29.60	3.00	3.00	100	H885646	6.0	42	0.01	0.13	10	0.27	
29.60	31.86	2.26	2.02	89	H885647	3.0	42	<0.01	1.46	62	11.05	
31.86	33.23	1.37	1.37	100	H885648	2.0	42	<0.01	4.16	158	2.07	
33.23	33.85	0.62	0.62	100	H885650	1.0	42	<0.01	0.47	11	1.04	
33.85	36.85	3.00	2.93	98	H885651	5.0	42	<0.01	0.02	7	0.12	
48.87	51.87	3.00	3.00	100	H885652	5.5	42	<0.01	0.06	9	0.24	
51.87	52.53	0.66	0.66	100	H885653	1.0	42	<0.01	0.04	17	0.40	
52.53	54.50	1.97	1.97	100	H885654	3.5	42	0.01	0.06	10	1.21	
71.56	73.63	2.07	2.06	100	H885655	4.0	42	<0.01	0.01	6	0.15	
73.63	75.74	2.11	2.06	98	H885657	4.0	42	<0.01	<0.01	17	0.79	
75.74	77.86	2.12	1.90	90	H885658	3.5	42	<0.01	0.74	26	0.48	
77.86	79.86	2.00	1.96	98	H885659	3.5	42	0.01	1.44	36	0.27	
131.54	134.54	3.00	2.91	97	H885691	5.5	43	<0.01	0.04	7	1.07	
134.54	137.16	2.62	2.53	97	H885692	4.5	43	<0.01	0.09	7	1.43	
137.16	140.21	3.05	3.00	98	H885693	6.0	43	<0.01	0.08	3	0.50	
140.21	143.26	3.05	2.94	96	H885695	5.0	43	0.01	0.05	8	0.77	
143.26	146.30	3.04	3.04	100	H885696	5.5	43	<0.01	0.02	<5	0.41	
170.69	173.49	2.80	2.74	98	H885697	5.0	44	<0.01	<0.01	8	0.72	
173.49	176.78	3.29	3.29	100	H885698	6.0	44	<0.01	<0.01	<5	0.20	
176.78	179.83	3.05	2.98	98	H885699	5.5	44	<0.01	<0.01	<5	0.23	
179.83	182.51	2.68	2.65	99	H885700	5.5	44	<0.01	<0.01	<5	0.39	
182.51	185.93	3.42	3.41	100	H885701	5.5	44	<0.01	0.01	5	0.61	
185.93	188.58	2.65	2.64	100	H885702	5.5	44	<0.01	0.01	6	0.32	
188.58	190.88	2.30	2.20	96	H885703	3.0	44	<0.01	0.06	17	0.76	
198.42	198.62	0.20	0.20	100	H885735	0.3	45	<0.01	0.26	6	2.36	
198.62	201.52	2.90	2.90	100	H885736	5.5	45	<0.01	0.04	6	1.26	
201.52	201.98	0.46	0.46	100	H885737	0.5	45	<0.01	0.06	5	0.50	
208.15	208.42	0.27	0.27	100	H885739	0.5	45	<0.01	0.49	<5	327.00	
208.42	210.65	2.23	2.19	98	H885740	4.0	45	<0.01	0.02	10	0.85	
210.65	212.82	2.17	2.07	95	H885741	4.0	45	0.01	0.02	5	0.35	
212.82	213.21	0.39	0.39	100	H885742	1.0	45	0.01	0.15	5	66.20	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
268.44	271.27	2.83	2.70	95	H885743	5.0	45	<0.01	0.01	11	0.42	
271.27	273.93	2.66	2.60	98	H885745	5.0	45	<0.01	0.02	33	1.79	
273.93	276.85	2.92	2.85	98	H885746	5.5	45	0.01	0.06	12	1.68	
276.85	279.77	2.92	2.92	100	H885747	5.5	45	<0.01	0.05	4	0.15	
279.77	282.70	2.93	2.91	99	H885748	4.0	45	0.01	0.01	5	0.46	
282.70	285.63	2.93	2.95	101	H885749	5.5	45	<0.01	0.03	14	0.16	
285.63	288.56	2.93	2.73	93	H885751	5.0	45	<0.01	0.04	6	0.21	
288.56	289.56	1.00	1.00	100	H885752	2.0	45	<0.01	0.10	12	0.29	
289.56	292.61	3.05	3.05	100	H885753	6.0	45	0.01	0.06	10	0.16	
292.61	295.66	3.05	3.05	100	H885754	5.5	45	0.03	0.07	2	0.12	
295.66	298.66	3.00	3.00	100	H885755	6.0	45	<0.01	0.06	1	0.11	
298.66	301.21	2.55	2.32	91	H885756	4.0	45	<0.01	0.04	2	0.14	
301.21	303.76	2.55	2.55	100	H885757	4.5	45	<0.01	0.07	3	0.24	
303.76	306.32	2.56	2.55	100	H885758	5.0	45	<0.01	0.04	25	0.19	
-	-	-			H885649	4.0	42	<0.01	0.02	<5	0.08	Blank
-	-	-			H885656	0.3	42	0.52	0.80	5900	93.50	Standard R-1
-	-	-			H885660	4.5	42	0.01	0.02	<5	0.08	Blank
-	-	-			H885694	0.3	43	0.51	0.89	6110	105.50	Standard R-1
-	-	-			H885738	4.0	45	<0.01	0.03	<5	0.03	Blank
-	-	-			H885744	0.3	45	1.53	1.81	26100	383.00	Standard R-2
282.70	285.63	2.93	2.95	101	H885750	2.0	45	0.01	0.02	7	0.15	Duplicate
-	-	-			H885759	4.0	45	<0.01	0.04	<5	0.05	Blank

BOX DENSITY LOG

HOLE: Rau-SC09-01

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
5	21.46	26.55	4.2	LST		5.34	42	2.58	
26	136.29	142.02	4.2	VOL		5.70	47	2.70	
33	176.32	182.11	4.2	VOL	MBL	5.44	44	2.65	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-SC09-01

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
2.00	LST		0.00	
3.00	LST		0.02	
4.00	LST		0.02	
5.00	LST		0.04	
6.00	LST		0.04	
7.00	LST		0.08	
8.00	LST		0.06	
9.00	LST		0.08	
10.00	LST		0.06	
11.00	LST		0.06	
12.00	LST		0.02	
13.00	LST		0.02	
14.00	LST		0.06	
15.00	LST		0.06	
16.00	LST		0.06	
17.00	LST		0.06	
18.00	LST		0.06	
19.00	LST		0.02	
20.00	LST		0.02	
21.00	LST		0.02	
22.00	LST		0.04	
23.00	LST		0.04	
24.00	LST		0.06	
25.00	LST		0.02	
26.00	LST		0.04	
27.00	LST		0.04	
28.00	LST		0.04	
29.00	LST		0.04	
30.00	VOL		0.18	
31.00	VOL		0.30	
32.00	VOL		0.10	
33.00	VOL		0.10	
34.00	LST		0.02	
35.00	LST		0.04	
36.00	LST		0.06	
37.00	LST		0.02	
38.00	LST		0.04	
39.00	LST		0.02	
40.00	LST		0.04	
41.00	LST		0.02	
42.00	LST		0.04	
43.00	LST		0.04	
44.00	LST		0.04	
45.00	LST		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
46.00	LST		0.06	
47.00	LST		0.04	
48.00	LST		0.04	
49.00	LST		0.04	
50.00	LST		0.10	
51.00	LST		0.06	
52.00	VOL	ALT	0.04	
53.00	LST		0.41	
54.00	LST		0.06	
55.00	LST		0.06	
56.00	LST		0.06	
57.00	LST		0.04	
58.00	LST		0.04	
59.00	LST		0.06	
60.00	LST		0.04	
61.00	LST		0.06	
62.00	LST		0.04	
63.00	LST		0.04	
64.00	LST		0.06	
65.00	LST		0.06	
66.00	LST		0.04	
67.00	LST		0.06	
68.00	LST		0.04	
69.00	LST		0.04	
70.00	LST		0.06	
71.00	LST		0.06	
72.00	LST		0.06	
73.00	LST		0.06	
74.00	VOL		0.06	
75.00	VOL		0.14	
76.00	VOL		0.22	
77.00	VOL		0.08	
78.00	VOL		0.04	
79.00	VOL		0.12	
80.00	LST		0.02	
81.00	LST		0.00	
82.00	LST		0.02	
83.00	LST		0.02	
84.00	LST		0.12	
85.00	LST		0.14	
86.00	LST		0.20	
87.00	LST		0.24	
88.00	LST		0.14	
89.00	LST		0.18	
90.00	LST		0.16	
91.00	LST		0.12	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
92.00	LST		0.00	
93.00	LST		0.04	
94.00	LST		0.00	
95.00	LST		0.00	
96.00	LST		0.02	
97.00	LST		0.02	
98.00	LST		0.02	
99.00	LST		0.04	
100.00	LST		0.04	
101.00	LST		0.20	
102.00	LST		0.75	
103.00	LST		0.30	
104.00	LST		0.16	
105.00	LST		0.28	
106.00	LST		0.04	
107.00	LST		0.08	
108.00	LST		0.02	
109.00	LST		0.16	
110.00	LST		1.37	
111.00	LST		0.04	
112.00	LST		0.02	
113.00	MBL		0.08	
114.00	MBL		0.02	
115.00	MBL		0.04	
116.00	MBL		0.00	
117.00	MBL		0.02	
118.00	MBL		0.30	
119.00	MBL		0.04	
120.00	MBL		0.02	
121.00	MBL		0.22	
122.00	MBL		0.06	
123.00	MBL		0.08	
124.00	MBL		0.02	
125.00	MBL		0.10	
126.00	MBL		0.18	
127.00	MBL		0.08	
128.00	MBL		0.02	
129.00	MBL		0.02	
130.00	MBL		0.10	
131.00	MBL		0.02	
132.00	MBL		0.06	
133.00	MBL		0.04	
134.00	MBL		0.02	
135.00	VOL		0.47	
136.00	VOL		2.23	
137.00	VOL		20.50	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
138.00	VOL		7.05	
139.00	VOL		0.90	
140.00	VOL		0.79	
141.00	VOL		1.35	
142.00	VOL		0.53	
143.00	VOL		114.00	
144.00	MBL		0.61	
145.00	MBL		0.04	
146.00	MBL		0.06	
147.00	MBL		0.04	
148.00	MBL		0.16	
149.00	MBL		0.04	
150.00	MBL		0.02	
151.00	MBL		0.02	
152.00	MBL		0.06	
153.00	MBL		0.04	
154.00	MBL		0.04	
155.00	MBL		0.20	
156.00	LST		0.18	
157.00	LST		0.06	
158.00	LST		0.06	
159.00	LST		0.04	
160.00	LST		0.06	
161.00	LST		0.04	
162.00	LST		0.08	
163.00	LST		0.14	
164.00	LST		0.06	
165.00	LST		0.08	
166.00	LST		0.22	
167.00	LST		0.04	
168.00	LST		0.30	
169.00	LST		0.18	
170.00	LST		0.04	
171.00	LST		0.12	
172.00	LST		0.24	
173.00	LST		0.59	
174.00	VOL		0.51	
175.00	VOL		0.12	
176.00	VOL		1.08	
177.00	VOL		2.90	
178.00	VOL		0.94	
179.00	VOL		0.57	
180.00	VOL		1.00	
181.00	VOL		2.99	
182.00	VOL		2.02	
183.00	LST		2.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
184.00	LST		1.25	
185.00	LST		1.80	
186.00	LST		1.04	
187.00	LST		0.30	
188.00	LST		0.02	
189.00	LST		0.04	
190.00	LST		0.02	
191.00	LST		0.04	
192.00	LST		0.14	
193.00	LST		0.02	
194.00	LST		0.04	
195.00	LST		0.24	
196.00	LST		0.34	
197.00	LST		1.00	
198.00	LST		0.18	
199.00	LST		0.73	
200.00	LST		0.14	
201.00	LST		0.24	
202.00	LST		0.20	
203.00	LST		0.12	
204.00	LST		0.04	
205.00	LST		0.14	
206.00	LST		0.04	
207.00	LST		0.61	
208.00	LST		0.04	
209.00	LST		0.14	
210.00	LST		0.18	
211.00	LST		0.41	
212.00	LST		0.06	
213.00	LST		2.50	
214.00	LST		0.20	
215.00	LST		0.29	
216.00	LST		0.34	
217.00	LST		0.20	
218.00	LST		0.22	
219.00	LST		0.22	
220.00	LST		0.30	
221.00	LST		0.24	
222.00	LST		0.18	
223.00	LST		0.30	
224.00	LST		0.02	
225.00	LST		0.79	
226.00	LST		0.47	
227.00	LST		1.25	
228.00	LST		0.24	
229.00	LST		1.25	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
230.00	LST		0.10	
231.00	LST		0.20	
232.00	LST		0.06	
233.00	LST		0.63	
234.00	LST		0.06	
235.00	LST		0.14	
236.00	LST		0.16	
237.00	LST		0.02	
238.00	LST		0.08	
239.00	LST		0.14	
240.00	LST		0.06	
241.00	LST		0.14	
242.00	LST		0.20	
243.00	LST		0.36	
244.00	LST		0.28	
245.00	LST		0.14	
246.00	LST		0.47	
247.00	LST		2.89	
248.00	LST		0.26	
249.00	LST		0.38	
250.00	LST		0.34	
251.00	LST		0.24	
252.00	LST		0.14	
253.00	LST		0.32	
254.00	LST		0.21	
255.00	LST		0.64	
256.00	LST		0.47	
257.00	LST		0.53	
258.00	LST		0.63	
259.00	LST		0.16	
260.00	LST		1.53	
261.00	LST		0.43	
262.00	LST		0.67	
263.00	LST		1.31	
264.00	LST		0.77	
265.00	LST		0.38	
266.00	LST		0.22	
267.00	LST		0.16	
268.00	LST		0.98	
269.00	LST		0.18	
270.00	LST		4.67	Blebby Po
271.00	LST		0.18	
272.00	MBL		0.96	
273.00	MBL		0.69	
274.00	VOL		1.20	
275.00	VOL		0.65	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
276.00	VOL		0.67	
277.00	VOL		0.63	
278.00	VOL		0.73	
279.00	VOL		0.90	
280.00	VOL		0.45	
281.00	VOL		0.49	
282.00	VOL		0.94	
283.00	VOL		0.98	
284.00	VOL		0.08	
285.00	VOL		0.06	
286.00	VOL		0.10	
287.00	VOL		0.65	
288.00	VOL		0.26	
289.00	VOL		0.77	
290.00	VOL		0.65	
291.00	VOL		0.75	
292.00	VOL		0.57	
293.00	VOL		1.18	
294.00	VOL		0.65	
295.00	VOL		0.73	
296.00	VOL		0.67	
297.00	VOL		0.69	
298.00	VOL		0.73	
299.00	VOL		0.65	
300.00	VOL		0.47	
301.00	VOL		0.59	
302.00	VOL		0.47	
303.00	VOL		0.61	
304.00	VOL		0.63	
305.00	VOL		0.59	
306.00	VOL		0.62	

BOX LOG

HOLE: Rau-SC09-01

BOX	FROM (m)	TO (m)
1	1.99	5.88
2	5.88	10.67
3	10.67	15.85
4	15.85	21.46
5	21.46	26.55
6	26.55	31.86
7	31.86	37.03
8	37.03	42.81
9	42.81	48.77
10	48.77	54.50
11	54.50	60.19
12	60.19	65.83
13	65.83	71.56
14	71.56	77.26
15	77.26	81.90
16	81.90	86.67
17	86.67	91.51
18	91.51	96.56
19	96.56	103.07
20	103.07	108.51
21	108.51	114.23
22	114.23	119.91
23	119.91	125.45
24	125.45	130.94
25	130.94	136.29
26	136.29	142.02
27	142.02	147.49
28	147.49	153.29
29	153.29	159.04
30	159.04	164.78
31	164.78	170.53
32	170.53	176.32
33	176.32	182.11
34	182.11	188.78
35	188.78	193.43

BOX	FROM (m)	TO (m)
36	193.43	199.00
37	199.00	204.82
38	204.82	210.65
39	210.65	216.36
40	216.36	222.07
41	222.07	227.87
42	227.87	233.68
43	233.68	239.54
44	239.54	245.33
45	245.33	251.11
46	251.11	256.78
47	256.78	262.60
48	262.60	26.44
49	26.44	274.32
50	274.32	280.12
51	280.12	285.80
52	285.80	291.54
53	291.54	296.80
54	296.80	302.48
55	302.48	306.32
	306.32	E.O.H.

RAU PROJECT

ZONE: Panther
SECTION:

HOLE: Rau-SC09-02
CLAIM: R 479

Easting	Northing	Elev.	Depth (m)
526754	7121630	1737	97.23

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	220	-50	compass				

Core size: BTW
Casing depth: 3.05 (m) in

Drilling dates: August 29 - September 2, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	28.25	28.25	LST	
28.25	31.01	2.76	LST	Marbilized
31.01	36.55	5.54	VOL	
36.55	97.23	60.68	LST	Crackle

SAMPLES

Numbers: No samples taken

Total:
Date sent:
Certificate:

COMMENTS

Rods froze in hole after mechanical failure, hole lost.

GEOLOGY LOG

HOLE: Rau-SC09-02

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	28.25	28.25	LST																			Light to medium grey limestone, ranging from fine-grained (micritic?) and massive, to quite well foliated. ~5% irregular crosscutting calcite +/- quartz veinlets, sometimes as bands up to 10 cm wide. A few small (<50 cm) areas of interbedded possible volcaniclastic, sometimes associated with bleaching of the limestone.
						FO	25															6.00 m: Foliation occurs at 25 deg to CA.
						FO	50															9.00 m: Minor bleaching of the limestone. 10 cm zone of interbedded, possibly volcaniclastic +/- quartz-carbonate vein.
																						13.50-15.00 m: A few thin layers of brown-orange and slightly clayey volcaniclastic(?) throughout this interval. Slightly greenish in colour with what looks like deformed calcite-filled amygdules.
						FO	50															20.00-23.00 m: Increased calcite veining and crackling of the limestone.
28.25	31.01	2.76	LST	MBL		FO	60															Orangey tan, bleached and marbleized (?) altered limestone (fizzes strongly). Seems like marbleized whitish limestone with sericitic stringers.
31.01	36.55	5.54	VOL			FO	65															Dark green amygdaloidal (calcite-filled) volcaniclastic. Thin (<1 mm), elongate amygdules define fairly strong foliation. Calcite veinlets (< 3 mm) crosscut obliquely, every 10-15 cm. (270 deg to foliation plane, 25 deg TCA)
						VN	25	270															
																						Some volcaniclastic is dark grey, magnetic, and overall the volcaniclastic layer is not very competent, quite fractured.
																						31.25-32.41 m: dark grey, moderately magnetic (very fine magnetite or pyrrhotite?) volcaniclastic layer. Minor hematite and chlorite alteration on a few fractures/carbonate veinlets.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						32.41-35.25 m: Green, foliated vesicular volcaniclastic.
																						35.25-35.55m: Light orangey tan rubble with minor <1 cm quartz fragments. Some brownish, clayey rubble at bottom contact.
36.55	97.23	60.68	LST		CR	FO	50															Light to medium grey crackled limestone. Varies from foliated to brecciated, but predominantly strongly crackled (with some foliation fabric) with thin black lines forming the matrix. Chaotic to evenly spaced thin calcite veinlets crosscut limestone foliation.
						VN	40	180														Foliation ~50 deg, veinlets crosscut at 40 deg, opposite to foliation.
																						52.00 m: Start seeing trace pyrite, usually rusty coloured in calcite veinlets. Also occasional flakes of muscovite.
															t							62.00-78.00 m: The core becomes highly fractured and broken. There are no fragments larger than 10-15 cm.
																				Sp	t	~59.00 m: Very thin Ca stringers with associated light orange blebs of sphalerite (?). Only observed in one veinlet.
																						56.55-56.67 m: Calcite veinlet with vugs and possible volcaniclastic layers (<10%)
						FO	40															80.00 m: Foliation occurs at 40 deg to CA. Crosscutting Ca veinlets cut at 40 deg to CA and 180 deg to FO.
						VN	40	180														
																						91.20-91.44 m light brown crumbly, gougey zone
																						After 92.00 m, core becomes quite well foliated, some augen style calcite sweats/nodules.
																						97.23 m: E.O.H. - The hole was ended early because the rods became frozen in place after a mechanical failure to the drill rig.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-SC09-02

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.87	3.05	1.18	1.18	100	0.34	29	MS	FR	
3.05	4.57	1.52	1.50	99	0.65	43	MS	FR	
4.57	6.06	1.49	2.05	138	1.18	79	MS	FR	
6.06	8.38	2.32	1.52	66	1.07	46	MS	FR	
8.38	8.84	0.46	0.46	100	0.30	65	MS	FR	
8.84	10.67	1.83	1.71	93	1.08	59	MS	SW	
10.67	13.41	2.74	2.63	96	1.92	70	MS	SW	
13.41	15.24	1.83	1.54	84	0.51	28	MS	SW	
15.24	16.76	1.52	1.52	100	0.67	44	MS	FR	
16.76	19.81	3.05	2.66	87	1.91	63	MS	FR	
19.81	22.86	3.05	3.05	100	2.65	87	MS	FR	
22.86	25.91	3.05	3.05	100	2.36	77	MS	FR	
25.91	28.04	2.13	2.04	96	1.05	49	MS	FR	
28.04	30.18	2.14	1.84	86	0.40	19	MS	FR	
30.18	31.39	1.21	1.21	100	0.86	71	W	FR	
31.39	32.31	0.92	0.63	68	0.12	13	W	FR	
32.31	33.07	0.76	0.63	83	0.14	18	W	FR	
33.07	34.75	1.68	1.68	100	0.69	41	MS	FR	
34.75	35.66	0.91	0.74	81	0.11	12	MS	FR	
35.66	36.88	1.22	1.22	100	0.10	8	W	MW	
36.88	39.62	2.74	2.74	100	2.38	87	MS	FR	
39.62	42.37	2.75	2.75	100	2.09	76	MS	SW	
42.37	43.89	1.52	1.52	100	1.43	94	MS	FR	
43.89	45.72	1.83	1.83	100	1.58	86	MS	FR	
45.72	48.77	3.05	2.65	87	1.78	58	MS	FR	
48.77	50.60	1.83	1.69	92	1.18	64	MS	FR	
50.60	52.73	2.13	2.06	97	1.17	55	MS	SW	
52.73	56.39	3.66	1.95	53	1.30	36	MS	SW	
56.39	59.44	3.05	2.95	97	2.34	77	MS	SW	
59.44	60.96	1.52	1.52	100	1.50	99	MS	SW	
60.96	63.40	2.44	2.33	95	0.62	25	MS	SW	
63.40	65.23	1.83	1.36	74	0.00	0	MS	SW	
65.23	66.14	0.91	0.91	100	0.13	14	MS	SW	
66.14	68.58	2.44	2.20	90	0.38	16	MS	FR	
68.58	71.63	3.05	2.85	93	2.11	69	MS	FR	
71.63	74.68	3.05	2.70	89	1.48	49	MS	FR	
74.68	75.74	1.06	1.01	95	0.40	38	MS	FR	
75.74	77.72	1.98	1.80	91	1.28	65	MS	SW	
77.72	80.01	2.29	2.24	98	1.19	52	MS	SW	
80.01	81.99	1.98	1.92	97	1.00	51	MS	SW	
81.99	82.91	0.92	0.72	78	0.00	0	MS	SW	
82.91	84.73	1.82	1.62	89	1.05	58	MS	SW	
84.73	86.72	1.99	1.99	100	1.28	64	MS	SW	
86.72	89.31	2.59	1.40	54	0.91	35	MS	SW	
89.31	89.92	0.61	0.54	89	0.40	66	MS	SW	
89.92	91.44	1.52	1.46	96	0.00	0	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
91.44	92.20	0.76	0.60	79	0.00	0	MS	SW	
92.20	94.18	1.98	1.77	89	1.13	57	MS	FR	
94.18	97.23	3.05	2.89	95	2.50	82	MS	FR	
	97.23	E.O.H.							

DENSITY LOG

HOLE: Rau-SC09-02

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
12.85	LST			14.6	4.2	562.7	363.3	2.78	2.82
30.38	LST	ALT		14.4	4.2	509.3	345.7	2.55	3.11
74.75	LST			14.7	4.2	586.0	380.5	2.88	2.85

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-SC09-02

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
1.87	LST		0.04	
2.00	LST		0.10	
3.00	LST		0.10	
4.00	LST		0.24	
5.00	LST		0.69	
6.00	LST		0.30	
7.00	LST		0.02	
8.00	LST		0.10	
9.00	LST		0.14	
10.00	LST		0.12	
11.00	LST		0.20	
12.00	LST		0.26	
13.00	LST		0.08	
14.00	LST		0.10	
15.00	LST		0.79	
16.00	LST		0.08	
17.00	LST		0.10	
18.00	LST		0.26	
19.00	LST		0.10	
20.00	LST		0.06	
21.00	LST		0.02	
22.00	LST		0.06	
23.00	LST		0.02	
24.00	LST		0.20	
25.00	LST		0.00	
26.00	LST		0.04	
27.00	LST		0.04	
28.00	LST		0.75	
29.00	LST	MBL	0.16	
30.00	LST	MBL	1.39	
31.00	LST	MBL	68.90	
32.00	VOL		67.30	
33.00	VOL		24.10	
34.00	VOL		41.60	
35.00	VOL		0.86	
36.00	VOL		0.49	
37.00	LST		0.47	
38.00	LST		0.18	
39.00	LST		0.28	
40.00	LST		0.12	
41.00	LST		1.02	
42.00	LST		0.06	
43.00	LST		0.24	
44.00	LST		0.12	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST		0.06	
46.00	LST		0.12	
47.00	LST		0.02	
48.00	LST		0.06	
49.00	LST		0.12	
50.00	LST		0.47	
51.00	LST		0.14	
52.00	LST		0.02	
53.00	LST		0.04	
54.00	LST		0.06	
55.00	LST		0.08	
56.00	LST		0.02	
57.00	LST		0.30	
58.00	LST		0.04	
59.00	LST		0.08	
60.00	LST		0.45	
61.00	LST		0.06	
62.00	LST		0.77	
63.00	LST		0.06	
64.00	LST		0.04	
65.00	LST		1.10	
66.00	LST		0.02	
67.00	LST		0.06	
68.00	LST		0.06	
69.00	LST		0.59	
70.00	LST		0.14	
71.00	LST		0.06	
72.00	LST		0.30	
73.00	LST		0.06	
74.00	LST		0.06	
75.00	LST		0.26	
76.00	LST		0.08	
77.00	LST		0.06	
78.00	LST		0.02	
79.00	LST		0.06	
80.00	LST		0.10	
81.00	LST		0.02	
82.00	LST		0.04	
83.00	LST		0.06	
84.00	LST		0.04	
85.00	LST		0.16	
86.00	LST		0.02	
87.00	LST		0.02	
88.00	LST		0.20	
89.00	LST		0.02	
90.00	LST		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
91.00	LST		0.16	
92.00	LST		0.04	
93.00	LST		0.02	
94.00	LST		0.02	
95.00	LST		0.02	
96.00	LST		0.08	
97.00	LST		0.02	

BOX LOG

HOLE: Rau-SC09-02

BOX	FROM (m)	TO (m)
1	1.87	6.86
2	6.86	12.10
3	12.10	17.25
4	17.25	23.18
5	23.18	28.40
6	28.40	33.44
7	33.44	38.50
8	38.50	43.80
9	43.80	49.45
10	49.45	56.51
11	56.51	61.45
12	61.45	66.14
13	66.14	71.29
14	71.29	76.42
15	76.42	81.66
16	81.66	86.72
17	86.72	91.55
18	91.55	97.23
	97.23	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Panther
SECTION:

HOLE: Rau-SC09-03
CLAIM: R 479

Easting	Northing	Elev.	Depth (m)
526754	7121630	1737	149.35

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	220	-51	compass				

Core size: BTW
Casing depth: 1.52 (m) out

Drilling dates: September 3-5, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	0.71	0.71	OVB	
0.71	14.40	13.69	LST	
14.40	15.75	1.35	VOL	
15.75	28.70	12.95	LST	
28.70	31.27	2.57	LST	Marbleized
31.27	37.00	5.73	VOL	
37.00	149.35	112.35	LST	Dolomitized

SAMPLES	
Numbers:	H885999-H886000, H885101-H885107
	H885296-H885300
Total:	14
Date sent:	
Certificate:	VA09100665, VA09104222
	Batches 52 & 57

COMMENTS

GEOLOGY LOG

HOLE: Rau-SC09-03

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	0.71	0.71	OVB																			
0.71	14.40	13.69	LST		FO										t							Light to medium grey limestone with up to 10% calcite flood, especially concentrated in a few thick (10-15 cm) veins. Well foliated with a few orangey tan altered zones.
																						Before 9.00 m foliation occurs at 25 deg to CA, after quick change to 45-50 deg for remainder. Trace finely disseminated pyrite.
																						10.25-11.13 m: Slightly more orangey tan baked zone. Possibly thin sericitic stringers? May be brief volcaniclastic layers.
14.40	15.75	1.35	VOL		FO	FO	55															Light brown and dark green volcaniclastic, foliated, and conformable. Characterized by stretched and deformed calcite amygdules. Slight orange staining on fracture surfaces.
15.75	28.70	12.95	LST			FO	60								t							Light to medium grey limestone moderately foliated at 60 deg to CA with an increased crackle texture from chaotic crosscutting calcite veinlets. Some slightly more brownish layers (<30 cm) with possible volcaniclastic content. Several seemingly conformable calcite veins with irregular margins, up to 5 cm thick cut the limestone.
						BD	60															Foliation at 60 deg. Fairly uniform with occasional very faint trace pyrite.
28.70	31.27	2.57	LST	ALT		FO	60						MBL	f	t							White to slightly orangey strongly marbleized limestone. Foliation remains constant. Minor black speckling and minor pyrite blebs. Wispy stringer of orangey sericite and possible thin volcaniclastic interbeds. (Transitional layer)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
31.27	37.00	5.73	VOL			FO	45															Dark green, foliated volcaniclastic layer. Some sections darker/magnetic, some slightly orangey brown. Prominent thin calcite veinlets crosscutting the foliation. Foliation is sometimes defined by the stretched of amygdules. Calcite veinlets cross-cut at 90 deg to foliation, 40 deg to CA. Minor quartz flood is associated with calcite +/- chlorite alteration.
																						32.15-32.70 m: Highly magnetic, fine black layers within the volcanic. Possibly very fine magnetite or pyrrhotite grains? Also some associated chlorite alteration (of calcite?)
																						36.72-37.00 m: Quartz/calcite flood +/- soft dark brown alteration. Volcaniclastic on upper contact is stained orange.
37.00	149.35	112.35	LST	ALT	CR	FO	40		m													Light grey, heavily crackled moderately dolomitized limestone with dark grey stringers. Two fabrics are present, one aligning the crackling, and one crosscutting with thin planar calcite veinlets at 40 deg to CA and 180 deg to FO.
																						Some thin layers of dark grey to black (slightly shaley?) regions. Throughout the region, some foliated/banded regions occur. Crosscutting calcite veinlets are common.
						FO	35															47.00 m: Foliation occurs at 35 deg to CA. Crosscutting veinlets/fractures at 45 deg to CA and 270 deg to foliation.
						VN	45	270														
																						50.00-50.30 m and 51.75-52.75 m: Shale rich interbeds, dark grey to black, occur throughout. These beds appear to be somewhat more calcareous.
															t							52.00 m: Start seeing occasional traces of pyrite as rusty red cubes in calcite veinlets. Also some muscovite flakes (?) occur within these veinlets.
						FO	40															60.00 m: Foliation occurs at 40 deg to CA. Veinlets cut at 40 deg to CA and 270 deg to FO.
						VN	40	270														

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						70.00-71.50 m: Slightly more tan, altered and crumbly. The foliated undulated slightly.
						FO	35															73.00 m: Foliation 35 deg to CA with minor pink (hematite) staining on veins that cut at 40 deg to CA, and 180 deg to foliation.
						VN	40	180														
						VN	10															82.50 m: Start seeing more crackle brecciation. Ca veinlets cut at ~ 10 and 40 deg to CA.
																						82.93-83.00 m: Slightly orangey-brown stained clayey flaky region. Possibly volcaniclastic or fault that appears to line up with the foliation.
																						88.00 m: Limestone has slowly become less altered and more calcareous (fizzes strongly).
																						92.50-93.00 m: More fissile, brown, altered region. Slightly more flooded (calcite/quartz) as well. Below this, a few <1 cm thin orangey sericite altered regions occur.
																						94.00-100.00 m: Quite fissile and well-foliated at 40-50 deg to CA. Characteristic cross-cutting calcite veinlets no longer occur.
																						100.00 m: Limestone is now variably crackle brecciated with only a weak foliation. The matrix is typically dark grey/black with some chaotic calcite flooding.
						FO	45															105.00 m: Foliation occurs at 45 deg to CA, and is slightly stylolitic.
				ALT		FO	40						MBL	s								Throughout interval and especially after 111.00 m, some areas are significantly marbleized, wiping out much of the texture in the core. Foliation ranges from 30-50 deg to CA.
																						116.50-117.00 m: Especially bleached/marbleized zone, with some orange staining.
																						119.05-119.75 m: The limestone is broken up by what appears to be dolomite +/- siderite (?) veins. Coarse crystalline calcite/dolomite occurs with brown carbonate on fractures.
						FR	75															Rubbly sometimes vuggy banded siderite appears to crackle the rock.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						119.75-124.24 m: Dolomite is still present, but quite fractured with pervasive brown carbonate (siderite?) staining fractures, which cut through limestone every 2-5 cm at 40-50 deg to the CA. Trace pyrite occurs on fractures, with rusty orange alteration around it. Fractures and veinlets 1-2 mm thick with siderite-calcite infilling are dominantly planar. Quite a lot of brecciation/crackling occurs throughout. Slightly orangey region on contact back to marbleized limestone.
																						After this point, slightly less marbleized, and limestone is moderately foliated, sometimes crackle brecciaed and deformation. Up to 10% calcite flood occurs. The foliation varies from 35-50 deg to CA.
						FO	60								t							136.00-137.00 m: A few thin brownish sericite stingers and very trace pyrite occur.
						FO	35															142.50-146.30 m: Increased calcite brecciation of limestone, sometimes calcite infills voids in a coliform banded nature, with slight orange staining. Foliation occurs at 30-40 deg between 137.00-141.00 m
																						149.35 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-SC09-03

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.71	0.76	0.05	0.05	100	0.00	0	MS	FR	
0.76	1.07	0.31	0.10	32	0.00	0	MS	FR	
1.07	1.83	0.76	0.48	63	0.00	0	MS	FR	
1.83	2.90	1.07	0.85	79	0.49	46	MS	FR	
2.90	3.96	1.06	0.92	87	0.37	35	MS	FR	
3.96	4.57	0.61	0.61	100	0.48	79	MS	FR	
4.57	5.49	0.92	0.97	105	0.68	74	MS	FR	
5.49	6.40	0.91	0.88	97	0.45	49	MS	FR	
6.40	7.62	1.22	1.06	87	0.69	57	MS	FR	
7.62	8.38	0.76	0.73	96	0.32	42	MS	FR	
8.38	9.14	0.76	0.76	100	0.45	59	MS	FR	
9.14	9.91	0.77	0.63	82	0.32	42	MS	FR	
9.91	10.67	0.76	0.85	112	0.26	34	MS	FR	
10.67	11.13	0.46	0.46	100	0.22	48	MS	FR	
11.13	12.19	1.06	1.02	96	0.82	77	MS	FR	
12.19	12.95	0.76	0.74	97	0.74	97	MS	FR	
12.95	14.02	1.07	1.07	100	0.89	83	MS	FR	
14.02	14.94	0.92	0.92	100	0.31	34	MS	FR	
14.94	16.00	1.06	0.87	82	0.00	0	MS	FR	
16.00	17.07	1.07	1.07	100	1.04	97	MS	FR	
17.07	18.29	1.22	1.19	98	0.75	61	MS	FR	
18.29	19.05	0.76	0.76	100	0.48	63	MS	FR	
19.05	20.73	1.68	1.49	89	1.20	71	MS	FR	
20.73	22.25	1.52	1.51	99	0.92	61	MS	FR	
22.25	23.77	1.52	1.52	100	1.13	74	MS	FR	
23.77	25.30	1.53	1.53	100	0.55	36	MS	FR	
25.30	26.21	0.91	0.88	97	0.21	23	MS	FR	
26.21	27.43	1.22	1.22	100	0.99	81	MS	FR	
27.43	28.96	1.53	1.46	95	0.62	41	MS	FR	
28.96	30.18	1.22	1.22	100	0.79	65	MS	FR	
30.18	31.70	1.52	1.48	97	1.00	66	MS	FR	
31.70	32.00	0.30	0.27	90	0.00	0	W	FR	
32.00	32.77	0.77	0.55	71	0.00	0	W	FR	
32.77	33.83	1.06	0.87	82	0.15	14	MS	FR	
33.83	34.74	0.91	0.82	90	0.23	25	MS	FR	
34.74	35.36	0.62	0.62	100	0.18	29	W	FR	
35.36	36.27	0.91	0.85	93	0.12	13	W	FR	
36.27	37.19	0.92	0.81	88	0.46	50	MS	MW	
37.19	38.71	1.52	1.22	80	0.20	13	MS	FR	
38.71	40.23	1.52	1.52	100	0.44	29	MS	FR	
40.23	41.15	0.92	0.87	95	0.13	14	MS	FR	
41.15	42.67	1.52	1.46	96	1.03	68	MS	FR	
42.67	44.20	1.53	1.45	95	1.00	65	MS	FR	
44.20	45.42	1.22	1.20	98	1.02	84	MS	FR	
45.42	46.94	1.52	1.52	100	0.65	43	MS	FR	
46.94	48.31	1.37	1.28	93	1.18	86	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
48.31	49.83	1.52	1.52	100	1.44	95	MS	FR	
49.83	51.51	1.68	1.54	92	0.98	58	MS	FR	
51.51	52.73	1.22	1.20	98	0.53	43	MS	FR	
52.73	54.25	1.52	1.52	100	1.14	75	MS	FR	
54.25	55.78	1.53	1.53	100	0.94	61	MS	FR	
55.78	57.30	1.52	1.52	100	0.00	0	MS	FR	
57.30	58.83	1.53	1.32	86	0.80	52	MS	FR	
58.83	60.20	1.37	1.37	100	1.08	79	MS	FR	
60.20	61.72	1.52	1.43	94	0.58	38	MS	FR	
61.72	63.25	1.53	1.53	100	1.08	71	MS	FR	
63.25	64.62	1.37	1.15	84	0.59	43	MS	FR	
64.62	65.53	0.91	0.91	100	0.41	45	MS	FR	
65.53	67.06	1.53	1.37	90	0.62	41	MS	FR	
67.06	68.28	1.22	1.22	100	1.02	84	MS	FR	
68.28	69.80	1.52	1.36	89	0.63	41	MS	FR	
69.80	70.87	1.07	0.95	89	0.25	23	W	SW	
70.87	71.48	0.61	0.61	100	0.00	0	W	SW	
71.48	72.39	0.91	0.72	79	0.12	13	MS	FR	
72.39	73.00	0.61	0.61	100	0.45	74	MS	FR	
73.00	73.15	0.15	0.09	60	0.00	0	MS	FR	
73.15	74.68	1.53	0.72	47	0.25	16	MS	FR	
74.68	76.20	1.52	1.29	85	1.05	69	MS	FR	
76.20	77.57	1.37	1.24	91	0.80	58	MS	FR	
77.57	78.64	1.07	0.85	79	0.18	17	MS	FR	
78.64	79.86	1.22	1.03	84	0.64	52	MS	FR	
79.86	80.77	0.91	1.02	112	0.51	56	MS	FR	
80.77	81.53	0.76	0.75	99	0.45	59	MS	FR	
81.53	83.21	1.68	1.53	91	1.25	74	MS	FR	
83.21	84.73	1.52	1.48	97	0.81	53	MS	FR	
84.73	86.26	1.53	1.53	100	1.04	68	MS	FR	
86.26	87.78	1.52	1.52	100	0.80	53	MS	FR	
87.78	89.31	1.53	1.53	100	1.28	84	MS	FR	
89.31	90.83	1.52	1.52	100	1.26	83	MS	FR	
90.83	92.35	1.52	1.42	93	0.72	47	MS	FR	
92.35	93.88	1.53	1.42	93	0.76	50	MS	FR	
93.88	95.40	1.52	1.50	99	1.04	68	MS	FR	
95.40	96.01	0.61	0.38	62	0.34	56	MS	FR	
96.01	96.62	0.61	0.61	100	0.61	100	MS	FR	
96.62	97.54	0.92	0.80	87	0.60	65	MS	FR	
97.54	98.45	0.91	1.04	114	1.02	112	MS	FR	
98.45	99.97	1.52	1.30	86	1.28	84	MS	FR	
99.97	100.78	0.81	0.30	37	0.13	16	MS	FR	
100.78	101.19	0.41	0.41	100	0.41	100	MS	FR	
101.19	102.72	1.53	1.53	100	1.45	95	MS	FR	
102.72	103.63	0.91	0.63	69	0.63	69	MS	FR	
103.63	105.16	1.53	1.45	95	1.19	78	MS	FR	
105.16	106.68	1.52	1.52	100	1.49	98	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
106.68	107.29	0.61	0.61	100	0.61	100	MS	FR	
107.29	108.81	1.52	1.52	100	1.30	86	MS	FR	
108.81	109.42	0.61	0.41	67	0.34	56	MS	FR	
109.42	112.78	3.36	3.31	99	2.65	79	MS	FR	
112.78	115.82	3.04	3.04	100	2.80	92	MS	FR	
115.82	118.87	3.05	3.05	100	2.67	88	MS	FR	
118.87	121.92	3.05	2.88	94	2.22	73	MS	SW	
121.92	124.97	3.05	3.00	98	2.53	83	MS	SW	
124.97	128.02	3.05	2.95	97	1.15	38	MS	FR	
128.02	131.06	3.04	3.04	100	2.80	92	MS	FR	
131.06	134.11	3.05	3.05	100	2.91	95	MS	FR	
134.11	137.16	3.05	3.03	99	2.68	88	MS	FR	
137.16	140.21	3.05	3.05	100	2.89	95	MS	FR	
140.21	143.26	3.05	3.05	100	2.74	90	MS	FR	
143.26	146.30	3.04	2.92	96	2.52	83	MS	FR	
146.30	149.35	3.05	2.70	89	2.33	76	MS	FR	
	149.35	E.O.H.							

SAMPLE LOG

HOLE: Rau-SC09-03

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
26.68	28.70	2.02	1.96	97	H885999	4.0	52	<0.01	0.03	90	1.77	
28.70	31.27	2.57	2.57	100	H885101	5.0	52	<0.01	0.01	8	0.24	
31.27	33.83	2.56	2.28	89	H885103	4.0	52	<0.01	2.58	93	4.08	
33.83	36.32	2.49	2.30	92	H885104	5.0	52	<0.01	0.03	9	0.32	
36.32	36.90	0.58	0.54	93	H885105	1.0	52	<0.01	0.36	43	1.80	
36.90	39.60	2.70	2.58	96	H885107	5.0	52	<0.01	0.19	17	0.23	
116.06	119.05	2.99	2.99	100	H885296	5.0	57	<0.01	0.03	<5	0.17	
119.05	119.75	0.70	0.70	100	H885297	1.0	57	<0.01	0.07	15	0.16	
119.75	121.92	2.17	1.90	88	H885298	3.0	57	<0.01	0.02	9	0.16	
121.92	124.24	2.32	2.28	98	H885299	4.0	57	<0.01	0.04	20	0.75	
124.24	126.14	1.90	1.87	98	H885300	2.5	57	1.60	1.80	27600	343.00	
-	-	-			H886000	0.3	52	<0.01	0.02	21	0.44	Standard R-2
28.70	31.27	2.57	2.57	100	H885102	2.0	52	<0.01	0.04	10	0.29	Duplicate
-	-	-			H885106	5.0	52	<0.01	0.04	7	0.26	Blank

DENSITY LOG

HOLE: Rau-SC09-03

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
115.35	LST	MBL		14.7	4.2	541.7	341.6	2.66	2.71

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-SC09-03

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
1.00	LST		0.20	
2.00	LST		0.41	
3.00	LST		0.55	
4.00	LST		0.84	
5.00	LST		0.16	
6.00	LST		0.08	
7.00	LST		0.12	
8.00	LST		0.12	
9.00	LST		0.04	
10.00	LST		0.04	
11.00	LST		0.25	
12.00	LST		0.14	
13.00	LST		0.02	
14.00	LST		0.06	
15.00	VOL		0.08	
16.00	LST		0.10	
17.00	LST		0.08	
18.00	LST		0.08	
19.00	LST		0.04	
20.00	LST		0.18	
21.00	LST		0.06	
22.00	LST		0.10	
23.00	LST		0.04	
24.00	LST		0.02	
25.00	LST		0.02	
26.00	LST		0.04	
27.00	LST		0.02	
28.00	LST		0.08	
29.00	LST	ALT	0.24	
30.00	LST	ALT	0.16	
31.00	LST	ALT	0.59	
32.00	VOL		11.60	
33.00	VOL		0.73	
34.00	VOL		2.54	
35.00	VOL		1.76	
36.00	VOL		0.51	
37.00	VOL		0.14	
38.00	LST	ALT	0.45	
39.00	LST	ALT	0.06	
40.00	LST	ALT	0.08	
41.00	LST	ALT	0.04	
42.00	LST	ALT	0.16	
43.00	LST	ALT	0.02	
44.00	LST	ALT	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST	ALT	0.00	
46.00	LST	ALT	0.02	
47.00	LST	ALT	0.02	
48.00	LST	ALT	0.14	
49.00	LST	ALT	0.02	
50.00	LST	ALT	0.02	
51.00	LST	ALT	0.22	
52.00	LST	ALT	0.02	
53.00	LST	ALT	0.06	
54.00	LST	ALT	0.04	
55.00	LST	ALT	0.14	
56.00	LST	ALT	0.08	
57.00	LST	ALT	0.08	
58.00	LST	ALT	0.10	
59.00	LST	ALT	0.06	
60.00	LST	ALT	0.06	
61.00	LST	ALT	0.08	
62.00	LST	ALT	0.06	
63.00	LST	ALT	0.04	
64.00	LST	ALT	0.08	
65.00	LST	ALT	0.10	
66.00	LST	ALT	0.04	
67.00	LST	ALT	0.06	
68.00	LST	ALT	0.16	
69.00	LST	ALT	0.08	
70.00	LST	ALT	0.06	
71.00	LST	ALT	0.10	
72.00	LST	ALT	0.04	
73.00	LST	ALT	0.06	
74.00	LST	ALT	0.04	
75.00	LST	ALT	0.04	
76.00	LST	ALT	0.06	
77.00	LST	ALT	0.04	
78.00	LST	ALT	0.06	
79.00	LST	ALT	0.04	
80.00	LST	ALT	0.06	
81.00	LST	ALT	0.04	
82.00	LST	ALT	0.04	
83.00	LST	ALT	0.12	
84.00	LST	ALT	0.04	
85.00	LST	ALT	0.08	
86.00	LST	ALT	0.04	
87.00	LST	ALT	0.06	
88.00	LST	ALT	0.04	
89.00	LST	ALT	0.04	
90.00	LST	ALT	0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
91.00	LST	ALT	0.04	
92.00	LST	ALT	0.10	
93.00	LST	ALT	0.10	
94.00	LST	ALT	0.04	
95.00	LST	ALT	0.02	
96.00	LST	ALT	0.06	
97.00	LST	ALT	0.00	
98.00	LST	ALT	0.08	
99.00	LST	ALT	0.00	
100.00	LST	ALT	0.02	
101.00	LST	ALT	0.02	
102.00	LST	ALT	0.02	
103.00	LST	ALT	0.02	
104.00	LST	ALT	0.02	
105.00	LST	ALT	0.02	
106.00	LST	ALT	0.22	
107.00	LST	ALT	0.00	
108.00	LST	ALT	0.08	
109.00	LST	ALT	0.00	
110.00	LST	ALT	0.00	
111.00	LST	ALT	0.00	
112.00	LST	ALT	0.10	
113.00	LST	ALT	0.00	
114.00	LST	ALT	0.00	
115.00	LST	ALT	0.00	
116.00	LST	ALT	0.16	
117.00	LST	ALT	0.32	
118.00	LST	ALT	0.02	
119.00	LST	ALT	0.02	
120.00	LST	ALT	0.06	
121.00	LST	ALT	0.14	
122.00	LST	ALT	0.21	
123.00	LST	ALT	0.38	
124.00	LST	ALT	0.00	
125.00	LST	ALT	0.00	
126.00	LST	ALT	0.02	
127.00	LST	ALT	0.53	
128.00	LST	ALT	0.10	
129.00	LST	ALT	0.12	
130.00	LST	ALT	0.02	
131.00	LST	ALT	0.00	
132.00	LST	ALT	0.02	
133.00	LST	ALT	0.02	
134.00	LST	ALT	0.00	
135.00	LST	ALT	0.00	
136.00	LST	ALT	1.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
137.00	LST	ALT	0.04	
138.00	LST	ALT	0.02	
139.00	LST	ALT	0.04	
140.00	LST	ALT	0.38	
141.00	LST	ALT	0.00	
142.00	LST	ALT	0.06	
143.00	LST	ALT	0.04	
144.00	LST	ALT	0.12	
145.00	LST	ALT	0.00	
146.00	LST	ALT	0.16	
147.00	LST	ALT	0.04	
148.00	LST	ALT	0.00	
149.00	LST	ALT	0.06	

BOX LOG

HOLE: Rau-SC09-03

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.71	5.80			
2	5.80	10.93			
3	10.93	16.00			
4	16.00	21.45			
5	21.45	26.68			
6	26.68	32.00			
7	32.00	37.19			
8	37.19	42.48			
9	42.48	47.82			
10	47.82	53.02			
11	53.02	58.25			
12	58.25	63.14			
13	63.14	68.17			
14	68.17	72.85			
15	72.85	77.57			
16	77.57	82.93			
17	82.93	88.33			
18	88.33	93.85			
19	93.85	99.22			
20	99.22	105.16			
21	105.16	110.44			
22	110.44	116.06			
23	116.06	121.81			
24	121.81	127.68			
25	127.68	133.15			
26	133.15	138.93			
27	138.93	144.45			
28	144.45	149.35			
	149.35	E.O.H.			

GEOLOGY LOG

HOLE: Rau-SC09-04

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	4.27	4.27	OVB																			Fragments of brecciated limestone
4.27	12.70	8.43	LST												t		t					Beige to light brown, massive, irregularly bleached limestone. Fairly broken up until 9.00 m, then fairly competent.
						FR	35								t		f					Several fracture zones (11.00-11.15 m and11.80-12.19 m) with greyish colour and stringers of pyrrhotite. Pyrrhotite also increases in the last 5 cm before the lower contact.
12.70	13.97	1.27	VOL	ALT		FO	50								w		w					Weakly foliated, beige to tan altered volcaniclastic with sericitic layers and pyrite/pyrrhotite replacing calcite blobs (elongate)
																						12.70-12.90 m: Area with the strongest concentration of pyrrhotite mineralization as stringers and disseminations in browner layers. The bottom contact is at 60 deg to CA.
13.97	217.62	203.65	LST	FOS											t							Medium grey, fossiliferous limestone, ranging from massive to slightly foliated and lightly brecciated. 10% calcite flood occurs within the first 3.00 m, then 5-10% after that. Corals, crinoids (including star crinoids to 2 cm) and other fossils to a total of up to 40%. Thin stringers/bands of very fine pyrite - trace overall.
						FO	70															19.00 m: FO occurs at 70 deg to CA.
						FO	60															22.00 m: FO occurs at 60 deg to CA.
						FO	50															26.00 m: FO occurs at 50 deg to CA.
						VT	90															30.70 m: 5 cm wide calcite vein roughly perpendicular to CA.
						FO	60															34.00 m: FO occurs at 60 deg to CA.
						FO	50															41.00 m: Fossil content decreases to <5% and the limestone is now more brecciated, and slightly deformed.
																						46.00 m +/- 0.50 cm: 20% calcite flood, and increased breccation.
															f							50.00-51.00 m: Slight increase in pyrite as foliaform to convolute stringers. Very fine grained, partially replacing calcite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	60															After this point, limestone gradually becomes lighter grey, with darker grey lines forming rough irregular foliations.
																						58.11-59.55 m: Strange zone, with 15 cm band of massive, fine grained pyrite. Seems to cut the core at 40 deg (upper) to 20 deg (lower) to CA. Below this band is a fine, almost massive looking area of limestone. A 4 cm vein of calcite with blebs of pyrrhotite bisects this unit, but otherwise is very homogenous with blebs/disseminations of pyrrhotite. At the bottom of the zone, there seems to be a gradation back into foliated limestone with a few bands and stringers.
																						59.55-69.00 m: Grey, weakly fossiliferous, moderately foliated limestone with faint sericite +/- pyrite stringers.
						FO	50															69.00 m: FO occurs at 50 deg to CA.
																						71.60 m: Transition from more the more foliated limestone to a more strongly brecciated limestone. Occasional fossil fragments occur. Calcite flood increases slightly, with several up to 5 cm crosscutting veinlets.
						FO	55															73.00 m: FO occurs at 55 deg to CA.
						FO	65															80.00 m: FO occurs at 65 deg to CA.
															w							81.50 m: Some black, graphitic shaley stringers, deformed with increased pyrite.
						FO	40															89.00 m: Start seeing more black shaly clasts occurring in the breccia. Brecciation also increases, and varies from intense to crackled, to minor with camo overprint. The shale is non-calcareous.
																						After 102.50 m, black shale decreases again, along with the amount of breccation. The limestone is again more massive and fossiliferous.
						FO	70															123.00 m: FO occurs at 70 deg to CA.
						FO	60															127.00 m: Start seeing some darker, finer-grained calcareous laminations.

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						130.00-132.00 m: Foliation drops to 30 deg, a few thin brown and sericite stringers occur.
						FO	60															135.00 m: FO occurs at 60 deg to CA.
						FO	65															141.00 m: FO occurs at 65 deg to CA.
						FO	65								t		w					142.41-152.40 m: Limestone is whiter/grittier, and contains up to 30% light yellowish tan to brown sericite and biotite (after volcaniclastic?) layers. Pyrrhotite occurs as irregular stringers and patches, possibly associated with sericite/biotite and or fractures. Foliation is irregular, 60-70 degrees, and sericite and volcaniclastic layers are wispy, sometimes deformed, and non-continuous.
															t							152.40 m: Back to grey, fossiliferous limestone. Trace blebs/small stringers of pyrite, which become weaker with depth. Often coral/crinoid fragments up to 2 cm in diameter are found. Occasional patches of quartz in calcite flood.
						FO	55															158.00 m: FO occurs at 55 deg to CA.
						FO	60															170.00 m: FO occurs at 60 deg to CA.
																						171.50-180.20 m: Trace pyrrhotite in grittier/less fossiliferous limestone. Weak blebs. Token sericite stringers occur nearby.
															t		t					Below this, trace fine disseminated/blebs of pyrrhotite persist sporadically through limestone.
						FO	75															180.00 m: FO occurs at 75 deg to CA.
						FO	70										w					185.06 m: Up to 20% sericite/biotite stringers again. Irregular/wispy, with thin stringers of pyrrhotite. The surrounding limestone still contains fossil fragments. A few 1 cm clots of pyrrhotite occur, in a region of moderate stringers/foliation deformation.
						FO	65								t		w					193.13-198.12 m: Brown biotite stringers have all but disappeared, with sericite stringers and pyrrhotite remaining. The area is well foliated at 65 deg to CA.
																						198.12-200.00 m: Sericite stringers gradually disappear, but pyrrhotite remains. The last pyrrhotite mineralization occurs around 200.00 m.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	70															After this point, back to well-foliated, weakly fossiliferous limestone with foliation running at 70 deg to CA, and some fossil fragments. Calcite (+minor quartz) patches occur.
																						206.60-206.80 m: Narrow area of biotite/sericite stringer layers.
																						206.80-217.62 m: Slightly fossiliferous, foliated limestone.
217.62	218.18	0.56	VOL			FO	50								t			Fu	t			Light green, fine-grained, foliated volcaniclastic. 12 cm calcite vein +/- pyrite at top contact, then 5 cm of clay gouge (light green) may represent fault zone? Foliation is at 50 deg to CA. Trace foliaform pyrite and blebs of green fuchsite.
218.18	221.29	3.11	VOL	ALT																		Maroon/brown volcaniclastic, well foliated with up to 30% calcite as elongate amygdules. A few more greenish layers occur. Possible fold, since foliation changes quickly as follows
						FO	40															218.00 m: FO occurs at 40 deg to CA.
						FO	35															220.00 m: FO occurs at 35 deg to CA.
						FO	15															220.50 m: FO occurs at 15 deg to CA.
						FO	60															221.00 m: FO occurs at 60 deg to CA.
						VN	80															In the area of the low angle foliation, greasy grey clay occurs. Also appears to be displacement along foliation, as at 1 cm calcite veinlet running at 80 deg to CA is displaced 2-3 cm.
221.29	228.97	7.68	LST	FO																		Back to grey and white, foliated limestone, with no fossils or mineralization, and some deformation of layers in last 90 cm.
																						222.30 m: Patches (large clasts) of volcaniclastic (over 30 cm interval) are foliated at a different angle making them appear out of place.
						FO	60															224.00 m: FO occurs at 60 deg to CA.
						FO	35															225.00 m: FO occurs at 35 deg to CA.
						FO	45															227.00 m: FO occurs at 45 deg to CA.

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						Seems like folding (and faulting) are active near the bottom contact at 228.97 m. The foliation switches direction from one way at 70 deg to the other way at 50 deg and then back to 70 deg again. Several other changes appear throughout the region as well.
228.97	231.77	2.80	VOL	ALT											w		m	Cp	t			Altered volcaniclastic, yellow-tan to dark green, with some brown and maroon layers. Pyrrhotite mineralization is significant, as stringers, foliaform disseminations and blebs, fracture fill, and massive crosscutting veins, one of which (2 cm thick) marks the upper contact. Maybe more of a coarse crackling with pyrrhotite as the infill. A few specks chalcopyrite . In the middle of the interval in an area that is less altered the foliation occurs at 60 deg to the CA.
						VN	35	180														230.00-230.18 m: Massive pyrrhotite veins at 35 deg to CA crosscut the foliation at 180 deg. Calcite (brecciated) zones occur with minor patchy pyrite on the margins. Foliation of the host rock appears visible in pyrrhotite vein (stress fabric?)
						FO	70															Traces of chalcopyrite and fuchsite. Two small interbeds of grey foliated limestone occur, with some medium-coarse disseminated pyrite cubes. The lower horizon (230.60-231.04 m) shows a foliation shift from 70 degrees one way to 70 degrees to the other. Below this, back into volcaniclastic.
231.77	236.95	5.18	LST			CN	70								t							Conformable contact at 70 degrees, with calcite from limestone "reaching up" as a few stringers that crackle the volcanic. Foliation 70 deg at this point. Limestone is generally well-foliated though the foliation is not constant. Small areas of breccation.
																						234.70 m-236.95 m: Moderately brecciated zone. with different foliation direction on either side.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
236.95	251.96	15.01	MBL	LST											t		t					Foliated mixture of marble and marbleized limestone. A few areas of sericite/biotite stringers occur.
																						237.85-238.60 m: Brown foliations of sericite/biotite, with trace pyrrhotite. At 238.00 m, rock foliation changes, from 60 deg one way to 50 deg to the other. Small faulted contact.
																						240.09-240.85 m: Speckled region, formed by what looks like maroon-brown sericite/biotite stringers and regions brecciated by calcite.
						FO	60															239.00 m: FO occurs at 60 deg to CA.
																						241.00-244.00 m: Whiter, strongly marbleized interval.
						FO	65															245.00 m: FO occurs at 65 deg to CA.
																						249.50-250.50 m Tan-brown sericite stringers are more common, with trace pyrite and pyrrhotite.
251.96	278.89	26.93	VOL																			Well-foliated, variably altered light greyish-green to dark green volcaniclastic. Some intervals of stretched magnetite pebble conglomerate. Minor calcite sweats and thin crosscutting veinlets occur.
															t		t					252.00-256.75 m: Fairly dark green volcaniclastic, common chlorite alteration. A few stringers of pyrite, and small blebs of pyrrhotite along foliations.
																						256.75-257.30 m: Still dark green/grey, but now stretched magnetite pebble conglomerate. Clasts are stretched to 10x width, and matrix appears to be fine magnetite.
						FO	60								t		w					259.00-261.00 m More bleached, light grey, some foliated volcaniclastics, a few regions of stretched clasts. Speckled throughout with pyrrhotite. A few 20 deg thin calcite veinlets crosscutting at 180 deg to foliation.
						VN	20	180														
															w		t					265.00-266.50 m: Another bleached light grey region, non conglomeratic with a weak concentration of pyrite blebs.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						267.50-268.20 m: Crumbly flaky volcaniclastic with no fragments larger than 2 cm.
																						268.20-269.29 m: Highly fractured, with all pieces less than 5 cm.
																						269.29-278.89 m: Variable mix of dark grey to light greenish-tan volcaniclastic (and minor pebble conglomerate.)
						FO	60															275.75-277.00 m: Appears to be same bleached, stretched light green tan magnetite pebble conglomerate. A few blebs of fuchsite occur.
																						278.89 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

RAU PROJECT

ZONE: Tiger East
SECTION: 09+450NW

HOLE: Rau-SC09-04
CLAIM: Rau 58

Easting	Northing	Elev.	Depth (m)
528773	7118569	1318	278.89

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-50	compass				

Core size: BTW
Casing depth: 10.67 (m) out

Drilling dates: September 13-16, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.27	4.27	OVB	
4.27	12.70	8.43	LST	Bleached
12.70	13.97	1.27	VOL	Altered
13.97	217.62	203.65	LST	Fossiliferous
217.62	221.29	3.67	VOL	Altered
221.29	228.97	7.68	LST	
228.97	231.77	2.80	VOL	Altered
231.77	236.95	5.18	LST	
236.95	251.96	15.01	MBL	Marbleized limestone
251.96	278.89	26.93	VOL	Containing magnetite pebble conglomerate

SAMPLES	
Numbers:	G284337-G284343, H284361-G284378
	G284393-G284404, G284485-G284497
Total:	50
	Batches 68, 69, 70, 72 & 73
Certificate:	VA09118050, VA09105684, VA09109503
	VA09107963, VA09109503, VA09109504

COMMENTS

GEOTECHNICAL LOG

HOLE: Rau-SC09-04

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.63	4.27	0.64	0.64	100	0.00	0	MS	SW	
4.27	6.10	1.83	0.17	9	0.00	0	MS	MW	
6.10	7.62	1.52	0.55	36	0.00	0	MS	MW	
7.62	8.38	0.76	0.39	51	0.00	0	W	MW	
8.38	9.14	0.76	0.31	41	0.00	0	W	MW	
9.14	9.75	0.61	0.44	72	0.00	0	MS	MW	
9.75	10.67	0.92	0.72	78	0.22	24	W	HW	
10.67	12.19	1.52	1.30	86	0.80	53	MS	SW	
12.19	13.72	1.53	1.27	83	0.65	42	MS	SW	
13.72	14.33	0.61	0.80	131	0.47	77	MS	SW	
14.33	15.24	0.91	0.85	93	0.38	42	MS	FR	
15.24	16.76	1.52	1.44	95	1.02	67	MS	FR	
16.76	17.53	0.77	0.63	82	0.61	79	MS	FR	
17.53	18.29	0.76	0.76	100	0.76	100	MS	FR	
18.29	19.81	1.52	1.51	99	1.43	94	MS	FR	
19.81	21.34	1.53	1.49	97	1.39	91	MS	FR	
21.34	22.86	1.52	1.52	100	1.40	92	MS	FR	
22.86	23.62	0.76	0.76	100	0.40	53	MS	FR	
23.62	25.15	1.53	1.15	75	0.45	29	MS	SW	
25.15	25.91	0.76	0.76	100	0.76	100	MS	FR	
25.91	27.43	1.52	1.52	100	1.00	66	MS	FR	
27.43	28.96	1.53	1.53	100	1.30	85	MS	FR	
28.96	32.00	3.04	3.03	100	2.79	92	MS	FR	
32.00	35.05	3.05	3.05	100	2.36	77	MS	FR	
35.05	38.10	3.05	3.03	99	2.77	91	MS	FR	
38.10	41.15	3.05	3.05	100	3.02	99	MS	FR	
41.15	43.59	2.44	2.44	100	2.22	91	MS	FR	
43.59	46.63	3.04	3.01	99	2.75	90	MS	FR	
46.63	49.68	3.05	3.05	100	2.90	95	MS	FR	
49.68	52.73	3.05	3.05	100	3.05	100	MS	FR	
52.73	56.08	3.35	3.14	94	3.07	92	MS	FR	
56.08	59.13	3.05	3.05	100	3.05	100	MS	FR	
59.13	62.33	3.20	3.14	98	2.59	81	MS	FR	
62.33	65.53	3.20	3.13	98	3.00	94	MS	FR	
65.53	68.58	3.05	3.05	100	3.05	100	MS	FR	
68.58	70.10	1.52	1.45	95	1.45	95	MS	FR	
70.10	73.15	3.05	3.05	100	2.99	98	MS	FR	
73.15	76.20	3.05	3.05	100	3.05	100	MS	FR	
76.20	79.25	3.05	3.05	100	3.05	100	MS	FR	
79.25	82.30	3.05	3.03	99	2.85	93	MS	FR	
82.30	85.34	3.04	3.04	100	3.02	99	MS	FR	
85.34	88.39	3.05	3.05	100	2.70	89	MS	FR	
88.39	91.44	3.05	3.04	100	3.04	100	MS	FR	
91.44	94.49	3.05	3.05	100	3.05	100	MS	FR	
94.49	96.93	2.44	2.44	100	2.38	98	MS	FR	
96.93	98.15	1.22	0.75	61	0.69	57	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
98.15	100.58	2.43	2.43	100	2.43	100	MS	FR	
100.58	102.41	1.83	1.81	99	1.72	94	MS	FR	
102.41	105.16	2.75	2.75	100	2.70	98	MS	FR	
105.16	108.20	3.04	2.95	97	2.58	85	MS	FR	
108.20	111.25	3.05	3.03	99	2.66	87	MS	FR	
111.25	114.30	3.05	3.05	100	3.05	100	MS	FR	
114.30	116.74	2.44	2.20	90	2.20	90	MS	FR	
116.74	119.79	3.05	3.05	100	3.05	100	MS	FR	
119.79	122.99	3.20	3.14	98	3.00	94	MS	FR	
122.99	126.19	3.20	3.14	98	3.03	95	MS	FR	
126.19	129.24	3.05	3.05	100	2.27	74	MS	FR	
129.24	132.44	3.20	3.10	97	2.96	93	MS	FR	
132.44	135.48	3.04	3.04	100	2.77	91	MS	FR	
135.48	138.07	2.59	2.59	100	2.59	100	MS	FR	
138.07	141.12	3.05	3.05	100	2.94	96	MS	FR	
141.12	144.32	3.20	3.13	98	2.95	92	MS	FR	
144.32	149.35	5.03	4.82	96	4.64	92	MS	FR	
149.35	152.40	3.05	3.03	99	3.03	99	MS	FR	
152.40	155.45	3.05	3.05	100	3.05	100	MS	FR	
155.45	158.50	3.05	3.05	100	3.05	100	MS	FR	
158.50	161.54	3.04	3.05	100	3.00	99	MS	FR	
161.54	164.59	3.05	3.05	100	3.00	98	MS	FR	
164.59	167.64	3.05	3.05	100	3.00	98	MS	FR	
167.64	170.69	3.05	3.05	100	2.81	92	MS	FR	
170.69	173.74	3.05	3.05	100	2.90	95	MS	FR	
173.74	176.78	3.04	3.05	100	2.90	95	MS	FR	
176.78	179.83	3.05	3.03	99	3.00	98	MS	FR	
179.83	182.88	3.05	3.05	100	2.95	97	MS	FR	
182.88	185.93	3.05	3.03	99	2.72	89	MS	FR	
185.93	188.98	3.05	3.05	100	2.83	93	MS	FR	
188.98	192.02	3.04	3.00	99	2.68	88	MS	FR	
192.02	195.07	3.05	3.05	100	2.88	94	MS	FR	
195.07	198.12	3.05	3.05	100	3.05	100	MS	FR	
198.12	199.64	1.52	1.52	100	1.52	100	MS	FR	
199.64	202.69	3.05	3.05	100	2.95	97	MS	FR	
202.69	205.74	3.05	3.05	100	3.05	100	MS	FR	
205.74	208.79	3.05	3.05	100	2.90	95	MS	FR	
208.79	211.84	3.05	3.05	100	2.23	73	MS	FR	
211.84	214.88	3.04	3.03	100	2.36	78	MS	FR	
214.88	217.02	2.14	1.44	67	0.39	18	MS	SW	
217.02	219.15	2.13	2.04	96	0.99	46	MS	FR	Small fault with gouge ~4 cm
219.15	222.12	2.97	2.97	100	1.59	54	MS	FR	
222.12	225.25	3.13	2.95	94	2.84	91	MS	FR	
225.25	228.30	3.05	3.05	100	2.15	70	MS	FR	
228.30	231.04	2.74	2.65	97	2.41	88	MS	FR	
231.04	234.09	3.05	3.05	100	2.95	97	MS	FR	
234.09	236.22	2.13	2.07	97	1.99	93	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
236.22	239.27	3.05	3.05	100	2.84	93	MS	FR	
239.27	242.32	3.05	3.05	100	3.05	100	MS	FR	
242.32	245.36	3.04	3.04	100	2.83	93	MS	FR	
245.36	248.41	3.05	3.05	100	3.05	100	MS	FR	
248.41	251.46	3.05	3.05	100	3.05	100	MS	FR	
251.46	254.51	3.05	3.04	100	2.42	79	MS	FR	
254.51	257.56	3.05	3.05	100	2.84	93	MS	FR	
257.56	260.00	2.44	2.44	100	1.94	80	MS	FR	
260.00	263.04	3.04	3.04	100	2.27	75	MS	FR	
263.04	265.79	2.75	2.39	87	0.92	33	MS	FR	
265.79	267.00	1.21	1.21	100	0.84	69	MS	FR	
267.00	268.53	1.53	0.78	51	0.00	0	MS	FR	
268.53	269.29	0.76	0.76	100	0.00	0	MS	FR	
269.29	271.58	2.29	2.29	100	1.50	66	MS	FR	
271.58	272.80	1.22	1.12	92	0.38	31	MS	FR	
272.80	275.84	3.04	3.04	100	1.74	57	MS	FR	
275.84	278.89	3.05	3.01	99	2.35	77	MS	FR	EOH at 278.89 m.

SAMPLE LOG

HOLE: Rau-SC09-04

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
10.67	12.70	2.03	1.95	96	G284337	4	68	0.03	0.26	161	46.6	
12.70	13.97	1.27	1.21	95	G284338	3	68	0.04	0.18	76	7.72	
13.97	16.00	2.03	1.91	94	G284339	3	68	0.02	0.12	61	0.45	
56.08	58.11	2.03	2.03	100	G284341	4	68	<0.01	0.02	105	0.79	
58.11	59.55	1.44	1.44	100	G284342	3	68	<0.01	0.10	99	0.32	
59.55	60.76	1.21	1.11	92	G284343	2	68	<0.01	0.04	35	0.16	
141.12	142.41	1.29	1.29	100	G284361	3.0	69	<0.01	0.04	43	0.66	
142.41	144.32	1.91	1.84	96	G284362	3.5	69	<0.01	0.06	23	0.32	
144.32	146.43	2.11	2.11	100	G284363	4.0	69	<0.01	0.03	14	0.2	
146.43	149.35	2.92	2.71	93	G284364	5.0	69	<0.01	0.06	16	0.14	
149.35	152.40	3.05	3.03	99	G284365	5.5	69	<0.01	0.05	12	0.16	
152.40	155.45	3.05	3.05	100	G284367	6.0	69	<0.01	0.07	22	0.22	
182.88	185.06	2.18	2.18	100	G284368	4.0	69	<0.01	0.02	19	0.14	
185.06	186.61	1.55	1.55	100	G284369	3.0	69	<0.01	0.07	14	0.13	
186.61	188.98	2.37	2.37	100	G284370	4.5	69	<0.01	0.06	10	0.13	
188.98	192.02	3.04	3.02	99	G284371	6.0	69	<0.01	0.09	11	0.08	
192.02	193.13	1.11	1.11	100	G284372	2.0	69	<0.01	0.05	23	0.14	
193.13	195.07	1.94	1.94	100	G284374	4.0	69	<0.01	0.04	<5	0.05	
195.07	198.12	3.05	3.05	100	G284375	6.0	69	<0.01	0.05	8	0.07	
198.12	199.64	1.52	1.52	100	G284376	3.0	69	<0.01	0.04	9	0.13	
199.64	202.69	3.05	3.05	100	G284377	6.0	69	<0.01	0.01	13	0.05	
215.50	217.62	2.12	1.36	64	G284393	2.5	70	<0.01	0.18	16	0.98	
217.62	218.18	0.56	0.47	84	G284394	1.0	70	<0.01	1.46	23	7.71	
218.18	221.29	3.11	3.11	100	G284395	6.0	70	<0.01	0.02	22	0.58	
221.29	223.29	2.00	1.97	99	G284396	3.0	70	<0.01	0.03	16	0.15	
223.29	225.25	1.96	1.96	100	G284397	3.5	70	<0.01	0.02	17	0.07	
225.25	227.15	1.90	1.90	100	G284398	3.0	70	<0.01	0.03	25	0.02	
227.15	228.97	1.82	1.91	105	G284400	4.0	70	<0.01	0.03	16	0.18	
228.97	231.77	2.80	2.70	96	G284401	5.5	70	<0.01	0.23	9	8.71	
231.77	234.09	2.32	2.32	100	G284402	5.0	70	<0.01	0.02	11	0.1	
234.09	235.45	1.36	1.36	100	G284403	2.5	70	<0.01	0.03	12	0.12	
235.45	236.95	1.50	1.44	96	G284404	3.5	70	<0.01	0.05	14	0.48	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
236.95	238.54	1.59	1.59	100	G284485	3.0	72	<0.01	0.14	7	4.81	
250.11	251.96	1.85	1.84	99	G284486	3.5	72	<0.01	0.04	9	0.07	
251.96	254.51	2.55	2.52	99	G284487	5.0	72	<0.01	0.14	8.2	0.35	
254.51	257.56	3.05	3.05	100	G284488	6.5	72	<0.01	0.14	22.8	0.47	
257.56	260.00	2.44	2.44	100	G284489	5.0	72	<0.01	0.21	12.5	0.51	
260.00	263.04	3.04	3.04	100	G284490	6.5	72	<0.01	0.40	7.4	1.45	
263.04	265.79	2.75	2.39	87	G284491	5.0	73	<0.01	0.06	13.4	0.52	
265.79	268.53	2.74	1.99	73	G284492	5.0	73	<0.01	<0.01	9.8	0.51	
268.53	271.58	3.05	3.05	100	G284493	6.5	73	<0.01	0.09	5.9	0.9	
271.58	272.80	1.22	1.12	92	G284494	2.5	73	<0.01	<0.01	7	0.19	
272.80	275.84	3.04	3.04	100	G284496	6.0	73	<0.01	0.11	2.8	0.85	
275.84	278.89	3.05	3.01	99	G284497	6.0	73	<0.01	0.11	2.8	2.12	
-	-	-			G284340	0.25	68	5.26	0.20	18800	469	STANDARD R-3
-	-	-			G284366	4.0	69	<0.01	0.05	31	0.69	BLANK
192.02	193.13	1.11	1.11	100	G284373	1.0	69	<0.01	0.04	20	0.14	DUPLICATE
-	-	-			G284378	0.3	69	5.35	0.29	45800	453	STANDARD R-3
225.25	227.15	1.90	1.90	100	G284399	2.0	70	<0.01	0.02	7	0.02	DUPLICATE
271.58	272.80	1.22	1.12	92	G284495	1.0	73	<0.01	<0.01	6.6	0.28	DUPLICATE

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-SC09-04

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3.63	OVB		0.08	
4.00	LST		0.16	
5.00	LST		1.82	
6.00	LST		0.08	
7.00	LST		0.12	
8.00	LST		0.18	
9.00	LST		0.32	
10.00	LST		0.12	
11.00	LST		12.6	
12.00	LST		1.43	
13.00	VOL	ALT	4.85	
14.00	LST	FOS	0.24	
15.00	LST	FOS	0.16	
16.00	LST	FOS	0.45	
17.00	LST	FOS	0.3	
18.00	LST	FOS	0.1	
19.00	LST	FOS	0.26	
20.00	LST	FOS	0.08	
21.00	LST	FOS	0.08	
22.00	LST	FOS	0.2	
23.00	LST	FOS	1.12	
24.00	LST	FOS	0.06	
25.00	LST	FOS	0.12	
26.00	LST	FOS	0.22	
27.00	LST	FOS	0.04	
28.00	LST	FOS	0.06	
29.00	LST	FOS	0.08	
30.00	LST	FOS	0.28	
31.00	LST	FOS	0.08	
32.00	LST	FOS	0.28	
33.00	LST	FOS	0.1	
34.00	LST	FOS	0.04	
35.00	LST	FOS	0.06	
36.00	LST	FOS	0.06	
37.00	LST	FOS	0.1	
38.00	LST	FOS	0.16	
39.00	LST	FOS	0.12	
40.00	LST	FOS	0.02	
41.00	LST	FOS	0.02	
42.00	LST	FOS	0.04	
43.00	LST	FOS	0.1	
44.00	LST	FOS	0.32	
45.00	LST	FOS	0.02	
46.00	LST	FOS	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	LST	FOS	0.02	
48.00	LST	FOS	0.1	
49.00	LST	FOS	0.16	
50.00	LST	FOS	0.26	
51.00	LST	FOS	0.28	
52.00	LST	FOS	0.04	
53.00	LST	FOS	0.04	
54.00	LST	FOS	0.02	
55.00	LST	FOS	0.04	
56.00	LST	FOS	0.06	
57.00	LST	FOS	0.06	
58.00	LST	FOS	0.1	
59.00	LST	FOS	1.16	
60.00	LST	FOS	0.45	
61.00	LST	FOS	0.06	
62.00	LST	FOS	0.92	
63.00	LST	FOS	0.02	
64.00	LST	FOS	0.04	
65.00	LST	FOS	0.06	
66.00	LST	FOS	0.1	
67.00	LST	FOS	0.04	
68.00	LST	FOS	0.02	
69.00	LST	FOS	0.1	
70.00	LST	FOS	0.06	
71.00	LST	FOS	0.26	
72.00	LST	FOS	0.04	
73.00	LST	FOS	0.12	
74.00	LST	FOS	0.04	
75.00	LST	FOS	0.1	
76.00	LST	FOS	0.02	
77.00	LST	FOS	0.06	
78.00	LST	FOS	0.08	
79.00	LST	FOS	0.3	
80.00	LST	FOS	0.45	
81.00	LST	FOS	0.04	
82.00	LST	FOS	0.04	
83.00	LST	FOS	0.04	
84.00	LST	FOS	0.14	
85.00	LST	FOS	0	
86.00	LST	FOS	0.02	
87.00	LST	FOS	0.12	
88.00	LST	FOS	0.88	
89.00	LST	FOS	0.06	
90.00	LST	FOS	0.04	
91.00	LST	FOS	0.04	
92.00	LST	FOS	0.41	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	LST	FOS	0.82	
94.00	LST	FOS	0.02	
95.00	LST	FOS	0.04	
96.00	LST	FOS	0.69	
97.00	LST	FOS	0.73	
98.00	LST	FOS	1.2	
99.00	LST	FOS	0.2	
100.00	LST	FOS	0.06	
101.00	LST	FOS	0.1	
102.00	LST	FOS	0.32	
103.00	LST	FOS	0.16	
104.00	LST	FOS	0.08	
105.00	LST	FOS	0.24	
106.00	LST	FOS	0.04	
107.00	LST	FOS	0.08	
108.00	LST	FOS	0.04	
109.00	LST	FOS	0.02	
110.00	LST	FOS	0	
111.00	LST	FOS	0.1	
112.00	LST	FOS	0.06	
113.00	LST	FOS	0.02	
114.00	LST	FOS	0.32	
115.00	LST	FOS	0.88	
116.00	LST	FOS	0.02	
117.00	LST	FOS	0.02	
118.00	LST	FOS	0.53	
119.00	LST	FOS	0.22	
120.00	LST	FOS	0.02	
121.00	LST	FOS	0.04	
122.00	LST	FOS	0.32	
123.00	LST	FOS	0.18	
124.00	LST	FOS	0.1	
125.00	LST	FOS	0.22	
126.00	LST	FOS	0.12	
127.00	LST	FOS	0.24	
128.00	LST	FOS	1.33	
129.00	LST	FOS	0.43	
130.00	LST	FOS	0.82	
131.00	LST	FOS	0.34	
132.00	LST	FOS	0.94	
133.00	LST	FOS	0.22	
134.00	LST	FOS	0.12	
135.00	LST	FOS	0.16	
136.00	LST	FOS	0.36	
137.00	LST	FOS	0.16	
138.00	LST	FOS	0.12	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139.00	LST	FOS	0.14	
140.00	LST	FOS	0.2	
141.00	LST	FOS	0.14	
142.00	LST	FOS	0.49	
143.00	LST	FOS	0.63	
144.00	LST	FOS	1.2	
145.00	LST	FOS	3	
146.00	LST	FOS	0.75	
147.00	LST	FOS	1	
148.00	LST	FOS	1.1	
149.00	LST	FOS	0.9	
150.00	LST	FOS	0.65	
151.00	LST	FOS	0.24	
152.00	LST	FOS	5	
153.00	LST	FOS	0.18	
154.00	LST	FOS	0.55	
155.00	LST	FOS	0.82	
156.00	LST	FOS	0.12	
157.00	LST	FOS	0.34	
158.00	LST	FOS	0.12	
159.00	LST	FOS	0.79	
160.00	LST	FOS	0.04	
161.00	LST	FOS	0.06	
162.00	LST	FOS	0.06	
163.00	LST	FOS	0.06	
164.00	LST	FOS	0.36	
165.00	LST	FOS	2.41	
166.00	LST	FOS	0.65	
167.00	LST	FOS	0.3	
168.00	LST	FOS	0.38	
169.00	LST	FOS	0.1	
170.00	LST	FOS	0.75	
171.00	LST	FOS	0.1	
172.00	LST	FOS	1.16	
173.00	LST	FOS	0.22	
174.00	LST	FOS	0.32	
175.00	LST	FOS	0.32	
176.00	LST	FOS	0.57	
177.00	LST	FOS	1.06	
178.00	LST	FOS	0.2	
179.00	LST	FOS	0.18	
180.00	LST	FOS	0.28	
181.00	LST	FOS	0.84	
182.00	LST	FOS	0.55	
183.00	LST	FOS	0.22	
184.00	LST	FOS	0.75	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
185.00	LST	FOS	0.26	
186.00	LST	FOS	0.77	
187.00	LST	FOS	0.88	
188.00	LST	FOS	0.22	
189.00	LST	FOS	0.73	
190.00	LST	FOS	0.61	
191.00	LST	FOS	0.49	
192.00	LST	FOS	0.71	
193.00	LST	FOS	0.67	
194.00	LST	FOS	1.25	
195.00	LST	FOS	0.98	
196.00	LST	FOS	1.1	
197.00	LST	FOS	0.53	
198.00	LST	FOS	0.16	
199.00	LST	FOS	0.41	
200.00	LST	FOS	0.41	
201.00	LST	FOS	0.18	
202.00	LST	FOS	0.14	
203.00	LST	FOS	0.43	
204.00	LST	FOS	0.3	
205.00	LST	FOS	0.34	
206.00	LST	FOS	0.36	
207.00	LST	FOS	0.32	
208.00	LST	FOS	1.92	
209.00	LST	FOS	0.73	
210.00	LST	FOS	1.16	
211.00	LST	FOS	0.49	
212.00	LST	FOS	0.79	
213.00	LST	FOS	0.26	
214.00	LST	FOS	0.06	
215.00	LST	FOS	0.82	
216.00	LST	FOS	0.16	
217.00	LST	FOS	0.1	
218.00	VOL		1.25	
219.00	VOL	ALT	0.41	
220.00	VOL	ALT	1.76	
221.00	VOL	ALT	1.64	
222.00	LST		0.06	
223.00	LST		0.96	
224.00	LST		0.16	
225.00	LST		0.1	
226.00	LST		0.22	
227.00	LST		0.14	
228.00	LST		0.22	
229.00	VOL	ALT	37.7	Pyrrhotite vein
230.00	VOL	ALT	59	Pyrrhotite vein

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
231.00	VOL	ALT	1.16	
232.00	LST		0.24	
233.00	LST		0.04	
234.00	LST		0.04	
235.00	LST		0.06	
236.00	LST		0.06	
237.00	MBL		0.08	
238.00	MBL		13.4	
239.00	MBL		0.24	
240.00	MBL		0.34	
241.00	MBL		0.67	
242.00	MBL		0.06	
243.00	MBL		0.45	
244.00	MBL		0.3	
245.00	MBL		0.36	
246.00	MBL		0.02	
247.00	MBL		0.18	
248.00	MBL		0.02	
249.00	MBL		0.1	
250.00	MBL		0.18	
251.00	MBL		0.51	
252.00	VOL		1.84	
253.00	VOL		2.64	
254.00	VOL		1.18	
255.00	VOL		0.67	
256.00	VOL		1.12	
257.00	VOL		99.6	
258.00	VOL		62.6	
259.00	VOL		0.79	
260.00	VOL		14.5	
261.00	VOL		16.9	
262.00	VOL		0.84	
263.00	VOL		6.08	
264.00	VOL		1.84	
265.00	VOL		0.96	
266.00	VOL		127	
267.00	VOL		25.2	
268.00	VOL		2.27	
269.00	VOL		0.3	
270.00	VOL		0.43	
271.00	VOL		0.61	
272.00	VOL		0.73	
273.00	VOL		2.54	
274.00	VOL		1.02	
275.00	VOL		2.21	
276.00	VOL		1.94	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
277.00	VOL		1.64	
278.00	VOL		25.5	

BOX LOG

HOLE: Rau-SC09-04

BOX	FROM (m)	TO (m)
1	3.63	10.67
2	10.67	16.00
3	16.00	21.56
4	21.56	26.80
5	26.80	32.39
6	32.39	37.90
7	37.90	43.59
8	43.59	49.33
9	49.33	54.90
10	54.90	60.76
11	60.76	66.63
12	66.63	72.36
13	72.36	78.10
14	78.10	83.87
15	83.87	89.67
16	89.67	95.39
17	95.39	101.16
18	101.16	106.86
19	106.86	112.74
20	112.74	118.34
21	118.34	124.07
22	124.07	129.63
23	129.63	135.39
24	135.39	140.76
25	140.76	146.43
26	146.43	152.40
27	152.40	158.13
28	158.13	163.86
29	163.86	169.59
30	169.59	175.40
31	175.40	181.07
32	181.07	186.61
33	186.61	192.41
34	192.41	198.12
35	198.12	203.87

BOX	FROM (m)	TO (m)
36	203.87	209.72
37	209.72	215.50
38	215.50	221.36
39	221.36	227.15
40	227.15	232.69
41	232.69	238.54
42	238.54	244.32
43	244.32	350.11
44	350.11	255.89
45	255.89	261.46
46	261.46	266.75
47	266.75	271.73
48	271.73	277.37
49	277.37	278.89

RAU PROJECT

ZONE: Tiger
SECTION: 9+600 NW

HOLE: RAU-08-01
CLAIM: Rau 58

Easting	Northing	Elev.	Depth (m)
528699	7118753	1384	94.81

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60°	compass				
94.49	230°	-63°	acid				

Core size: BTW
Casing depth: (m) in/out

Drilling dates:

Logged by: Luke Beronek

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.96	4.96	OVB	
4.96	22.30	17.34	LST	
22.30	23.49	1.19	LST	Altered
23.49	44.20	20.71	VOL	Altered
44.20	52.85	8.65	LST	
52.85	59.65	6.80	VOL	Altered

SAMPLES

Numbers: G004501-G004539

Total: 38
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: RAU-08-01

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	22.30	22.30	LST		BX	BD	50		f						t							Banded to fluid collapse brecciated, fossiliferous limestone with trace pyrite disseminated and foliaform Py. Rock is not very calcareous so has probably been fairly dolomitized, and is fairly hard. Weak banding occurs at 50 deg to CA. The banding sometimes contains stylolites which occur at 75 deg to CA
						BD	75															
																						17.57-22.30 m: limestone becomes more strongly solution collapse brecciated, with minor rusty alteration on fractures. This limestone is also moderately dolomitized zone.
22.30	23.49	1.19	LST	ALT	MA					w			MBL	f	m							Massive, marbleized grey limestone with weak sericite alteration. Increased pyrite to 5-10%, disseminated/patchy.
23.49	44.20	20.71	VOL	ALT											f		w					Foliated volcaniclastic, first 1.5m is beige tan, greenish colour, becoming more of a strong dark maroon colour (biotite or siderite). 7-10% disseminated, foliaform sulphides. Weakly magnetic, with fine-grained pyrrhotite and disseminated pyrite.
													CHL	f								30.26 m: Transition to more chlorite? altered material as it is a more green colour.
					AM	FO	50								ms							40.38 m: Large 1-2 cm Ca amygdules up to 30 %, with increased sericite alteration. 7-10% Pyrite occurs both fine to medium grained disseminations and replacing the Ca in the amygdules. Foliation occurs at 50 deg.
44.20	52.85	8.65	LST																			Medium grey, slightly calcareous fluid collapse brecciated limestone with irregular cross cutting weak crackle texture.
52.85	94.81	41.96	VOL	ALT																		Green to pinkish brown volcaniclastic, with variable alteration.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	15						CHL	s								52.85-55.52 m: Strongly chlorite altered, low angle foliation (15deg). Weakly pyrite mineralized. Slightly rusty on fractured surfaces.
																						55.52-57.96 m: Maroon (biotite?) alteration, coarse pyrite, cubic. Ca veinlets throughout.
						FO	55		m						ms							57.96-59.65 m: Foliated at 55 deg to Ca and sericite altered with moderately strong fine grained disseminated Py. Fewer amygdules occur. The last 30 cm of the interval is chlorite altered with less pyrite.
																						59.65 m: Medium grey limestone, with weak banding and stylolites.
																						67.00 m: Solution collapse brecciated limestone with Ca matrix and some minor some minor Qz flood. Pyrite still occurs at moderately strong disseminated Py.
						FO	60															75.15-75.50 m: Small Ca vein zone, with possible Sp, and reddish brown hematite alteration. The vein occurs at 30 deg to Ca. The last 15cm is siderite replaced +/- hematite staining at 60 deg.
																						Increased Py in last 30 cm, fine-grained.
																						94.81 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	7.62	7.62	2.97	39	2.57	34			
7.62	10.66	3.04	2.59	85	2.57	85			
10.66	13.71	3.05	3.01	99	2.89	95			
13.71	16.76	3.05	2.95	97	2.77	91			
16.76	19.81	3.05	2.93	96	2.62	86			
19.81	22.86	3.05	2.86	94	2.65	87			
22.86	25.90	3.04	2.98	98	2.82	93			
25.90	27.43	1.53	1.53	100	1.68	110			
27.43	30.48	3.05	3.03	99	2.98	98			
30.48	33.52	3.04	3.01	99	2.87	94			
33.52	36.57	3.05	3.05	100	2.98	98			
36.57	39.62	3.05	2.99	98	2.93	96			
39.62	42.67	3.05	2.91	95	2.81	92			
42.67	45.72	3.05	2.90	95	2.62	86			
45.72	48.76	3.04	3.04	100	2.97	98			
48.76	51.81	3.05	3.01	99	2.87	94			
51.81	54.86	3.05	2.83	93	2.41	79			
54.86	57.91	3.05	2.98	98	2.55	84			
57.91	60.96	3.05	2.98	98	2.92	96			
60.96	64.00	3.04	2.99	98	2.93	96			
64.00	67.60	3.60	3.00	83	2.87	80			
67.60	70.10	2.50	2.50	100	2.86	114			
70.10	73.15	3.05	3.02	99	2.65	87			
73.15	76.20	3.05	2.80	92	2.60	85			
76.20	79.25	3.05	3.05	100	2.67	88			
79.25	82.30	3.05	2.96	97	2.88	94			
82.30	85.34	3.04	3.04	100	3.91	129			
85.34	88.39	3.05	2.96	97	2.87	94			
88.39	91.44	3.05	2.59	85	2.42	79			
91.44	94.81	3.37	3.37	100	2.90	86			
	94.81	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-01

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
7.79	8.79	1.00	G004501	0.02	0.70	460	8.57	
11.23	12.23	1.00	G004502	0.01	0.42	550	7.17	
14.28	15.28	1.00	G004503	0.01	0.05	3	0.27	
17.37	18.37	1.00	G004504	0.00	0.03	17	0.29	
20.45	21.45	1.00	G004505	0.00	0.02	6	0.65	
22.31	23.31	1.00	G004506	0.01	0.09	53	1.55	
23.31	24.31	1.00	G004507	0.03	0.20	111	4.97	
24.31	25.31	1.00	G004508	0.01	0.15	10	1.16	
25.31	26.31	1.00	G004509	0.01	0.16	3	0.80	
26.31	27.31	1.00	G004510	0.00	0.13	0	0.56	
27.31	29.31	2.00	G004511	0.00	0.07	0	0.44	
29.31	31.31	2.00	G004512	0.01	0.08	20	0.42	
31.31	33.31	2.00	G004513	0.01	0.06	30	0.06	
33.31	35.31	2.00	G004514	0.01	0.08	55	0.05	
35.31	37.31	2.00	G004515	0.02	0.05	247	0.15	
37.71	39.31	1.60	G004516	0.05	0.06	347	0.17	
39.31	41.31	2.00	G004518	0.01	0.10	144	0.29	
41.31	42.67	1.36	G004519	0.02	0.09	155	0.75	
42.67	43.89	1.22	G004520	0.09	0.13	246	3.94	
43.89	46.04	2.15	G004521	0.02	0.08	33	1.50	
50.95	52.93	1.98	G004522	0.04	0.13	229	2.41	
52.93	54.93	2.00	G004523	0.05	0.26	69	3.39	
54.93	56.93	2.00	G004524	0.03	0.10	19	0.80	
56.93	58.28	1.35	G004525	0.04	0.11	92	1.59	
58.28	59.66	1.38	G004526	0.10	0.19	471	7.28	
61.52	62.52	1.00	G004527	0.00	0.06	14	0.65	
64.75	65.75	1.00	G004528	0.01	0.05	25	1.41	
67.81	68.81	1.00	G004529	0.01	0.05	35	0.92	
71.00	72.00	1.00	G004530	0.03	0.35	81	2.60	
74.00	75.00	1.00	G004531	0.01	0.04	21	0.63	
77.00	78.00	1.00	G004532	0.01	0.15	22	1.28	
80.00	81.00	1.00	G004534	0.00	0.08	14	0.32	
83.00	84.00	1.00	G004535	0.00	0.02	21	0.37	
86.00	87.00	1.00	G004536	0.01	0.17	20	0.91	
89.00	90.00	1.00	G004537	0.02	0.07	12	0.80	
92.00	93.00	1.00	G004538	0.02	0.09	16	1.31	
-	-	-	G004517	0.00	0.02	17	0.15	Blank
-	-	-	G004533	0.00	0.01	14	0.02	Blank
-	-	-	G004539	14.70	10.65	453	0.05	Standard

RAU PROJECT

ZONE: TIGER
SECTION: 10+000 NW

HOLE: RAU-08-02
CLAIM: Rau 71

Easting	Northing	Elev.	Depth (m)
528556	7119098	1273	131.06

Contractor: Superior Diamond Drilling
Drill:

Core size: BTW
Casing depth: (m) out

Drilling dates:

Logged by: Luke Beranic

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60°	compass				
131.06	230°	-60°	acid				

Target: Gossan along creek

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.8	4.80	OVB	
4.80	7.4	2.60	LST	
7.40	11.05	3.65	SID	
11.05	18.16	7.11	LST	Altered
18.16	20.37	2.21	DOL	Altered
20.37	28.05	7.68	LST	Altered
28.05	28.54	0.49	VOL	Altered
28.54	37.03	8.49	LST	
37.03	50.15	13.12	VOL	Altered
50.15	53.12	2.97	LST	
53.12	53.98	0.86	VOL	Amygdaloidal
53.98	121.21	67.23	DOL	Mineralized
121.21	122.5	1.29	MBL	
122.5	131.06	8.56	LST	

SAMPLES

Numbers: G004540-G004613

Total: 75
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: Rau-08-02

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	4.80	4.80	OVB	ALT																		Slightly orange stained, rubbly overburden.
4.80	7.40	2.60	LST		MO	BD	70		m													Mottled light and dark grey LST, moderately dolomitized. Occasional Qz-Ca veinlets cut at 30 and 80 deg to CA. Bedding fairly well defined at 70 deg to CA until 6.10 m.
						VN	80															
						VN	30															
7.40	11.05	3.65	SID		VU							f			w							Dark grey to rusty brown, vuggy siderite with disseminated to blebby Py. Occasional Ca patches. Within the siderite there are small zones of bright orange oxide powder coatings.
11.05	18.16	7.11	LST	ALT	BX				w													Medium grey, dolomitized fossiliferous limestone with solution collapse and overprinting crackle brecciation. The limestone is weakly carbonate altered giving it a slightly orange-brown altered and vuggy appearance. Later Ca veinlets cut the breccia at varying angles. Banding is moderately undulating. Coral mound fragments occurs within minor. There is a rubbly zone at end of interval.
18.16	20.37	2.21	DOL	ALT		VN	30								f		w	Sp	t			Medium to coarse grained dolomite with an altered yellowy orange-brown colouration. Rare black stylolitic bands occur at 60 deg to CA. Weak to fair finely disseminated pyrite and weak pyrrhotite occurs throughout. Pyrite also occurs in thin veinlets that run at 30 deg to CA. Possible trace fine grained red sphalerite.

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
20.37	28.05	7.68	LST	ALT	BN	BD	60		f						t							Medium grey fairly dolomitized brecciated limestone The brecciation is a clean, sharp mosaic style breccia with faint crackle overprint. There is weak orange-brown carbonate alteration on some fractured surfaces. There are occasional interbands of dark grey-black silty material. The contact with the upper unit is very sharp at 80 deg to CA. Trace fine grained disseminated pyrite occurs throughout.
						CN	80															
28.05	28.54	0.49	VOL	ALT		FO	55			s			CHL	w	m							Light green-grey weakly chlorite altered volcaniclastic with strong sericite alteration. Moderately disseminated Py occurs along the FO at 55 deg to CA, as well as in larger blebs and patches. Rare bands of talc. Overall the interval is moderately calcareous.
28.54	37.03	8.49	LST		BN	BD	60								t							Light grey moderately dolomitized limestone with several 20 cm wide, coarse grained Qz-Carbonate veins containing trace pyrite. Fine disseminations o pyrite occurs throughout. The lower contact is gradational, becoming interlayered with sericite bands.
						VN	50															
37.03	50.15	13.12	VOL	ALT	FO	FO	65			I					w							Light brown/purple volcaniclastic with strong foliation at 65 deg to CA. Thin sericite bands with Fine grained pyrite occurs disseminated throughout and along banding in thin bands. The interval becomes increasingly sericite altered at 45.54 m.
						VN	15	270														
															m							40.95-43.07m: increase in the concentration of pyrite which is more concentrated in blebs and overall coarser grained. At this point the core is very fissile.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
50.15	53.12	2.97	LST		BN	BD	50								w		t					Medium grey limestone with occasional gritty horizons, weakly crackle brecciated by Ca veinlets. Weak pyrite and trace pyrrhotite is disseminated throughout. Coarse grained creak dolomite veins cut the unit. Associated with these veins is moderate fine grained pyrite, and fair coarse grained arsenopyrite with patchy fine grained pyrrhotite.
						CN	55								m	f	w					52.55-52.93 m: interbedded dark grey-black volcaniclastic with calcite amygdules mostly to completely replaced by Py with minor As. Contacts with LST are well mineralized with Py and As. Coarse grained creak dolomite veins cut the unit. Associated with these veins is moderate fine grained pyrite, and fair coarse grained arsenopyrite with weak patchy fine grained pyrrhotite.
						CN	40															
53.12	53.98	0.86	VOL	AM	FO	FO	60								f	t	w					Dark grey to black volcaniclastic with calcite amygdules replaced by fine grained Py. Strongly foliated. Amygdules are 0.5-2.0 cm in size, elongated along foliation. Some relict Ca.
						VN	50															
53.98	77.58	23.60	DOL	MX	BN	BD	55								ms	f						Medium grained, creamy white dolomite with moderately to strong mineralization occurring in bands at 55 deg to CA. 17 cm of semi-massive arsenopyrite and pyrite occurs at the upper contact with the volcaniclastic. Weakly concentrated talc patches occur within. Pyrite is fine to medium grained while arsenopyrite is more typically coarse grained and most commonly occurs in 0.1-1 cm wide bands in the DOL. Qz+/- Dol veins cut the dolomite at 30 deg to CA
						VN	30															
						VN	45								t	w						55.97-56.57 m: much less sulphide, fewer Qz-Dol veins now occurring at 45 deg to CA. Pyrite is consistent throughout the interval, while arsenopyrit is more patchy.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	50								m	w	t					62.58-77.58 m: Decrease in the concentration and grain size of the mineralization within the entire interval.
						VN	5															64.45-65.35 m: Coarse grained white Qz-Dol vein, with minor Py blebs within. More Py and As at contact between vein and mineralized dolomite. Sulphides are less strongly concentrated in bands, more disseminated through core. Occasional 5 cm wide zones of coarser grained sulphide.
77.58	121.21	43.63	DOL	MX	BN	BD	65								ms	f	f					Increase in coarse grained As. Py more
																						commonly forms in thin bands parallel to
						VN	40															banding, while As occurs as medium to coarse
																						grained blebs and disseminations. Po occurs
																						with Py and as fine grained blebs. Occasional
																						2-5 cm wide shaly horizons. Still occasional
																						gypsum/talc patches, often more evident on
																						fractures.
						VN	65								f	w	t					85.45-97.09 m: Arsenopyrite increasingly occurs in bands as well as blebs. Less mineralization occurs near talc patches which occasionally rim Qz-Dol veins.
						VN	30	90							f	w	t					97.09-102.99 m: Decrease in sulphides.
						BD	55								f	f	t					102.99-108.79 m: Increase in coarse grained arsenopyrite occurring in both thin bands and disseminations to blebs. Pyrite is dominantly occurring in thin bands and patches. Banding occurs at 55 deg to CA.
						BD	70								f	w	t	Bi	t			108.79-121.21 m: Decrease in grain size and percentage of sulphides dominantly occurring as thin (0.2-0.5 cm) bands with rare blebs. Rare Bismuthanite occurs at 120.00 m. Late Qz+/- Dol veins cut the mineralization approximately 1-2 per metre at 50 deg to CA and 180 deg to banding.
						VN	50	180														
121.21	122.50	1.29	MBL		BN	BD	50											Ma	f			Fine grained wavy magnetite in bands within pure white marble.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	65															
						BD	35															
122.50	131.06	8.56	LST		BN	BD	45		f													Leopard spotted volcaniclastic with foliation occurring at 45 deg to Ca, and cross cutting Ca veins at 35 and 50 deg to CA. The patches within the unit are medium sized. Blue grey sericite alteration particularly concentrated within the first metre.
						VN	50															124.15-124.56 m: Beige strongly sericite altered volcaniclastic.
						VN	35	200														
						BD	55															
						VN	50	180														
																						E.O.H. 131.06 m.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-08-02

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	6.10	6.10							Includes overburden
6.10	9.10	3.00	1.98	66	0.75	25			
9.10	12.19	3.09	2.30	74	0.90	29			
12.19	15.24	3.05	2.45	80	1.65	54			
15.24	18.29	3.05	2.74	90	1.97	65			
18.29	21.34	3.05	2.92	96	2.46	81			
21.34	24.38	3.04	2.90	95	2.64	87			
24.38	27.43	3.05	2.96	97	2.96	97			
27.43	30.48	3.05	2.89	95	2.64	87			
30.48	33.53	3.05	3.04	100	3.04	100			
33.53	36.58	3.05	2.62	86	2.58	85			
36.58	39.62	3.04	3.04	100	2.86	94			
39.62	42.67	3.05	3.05	100	2.53	83			
42.67	45.72	3.05	3.03	99	2.61	86			
45.72	48.72	3.00	3.00	100	1.89	63			
48.72	50.29	1.57	1.50	96	1.33	85			
50.29	53.34	3.05	2.92	96	2.85	93			
53.34	54.46	1.12	1.12	100	1.21	108			
54.46	57.92	3.46	2.97	86	2.77	80			
57.92	60.96	3.04	3.00	99	2.87	94			
60.96	64.00	3.04	3.03	100	3.04	100			
64.00	67.05	3.05	3.03	99	2.94	96			
67.05	70.10	3.05	3.05	100	2.99	98			
70.10	73.15	3.05	2.95	97	2.62	86			
73.15	76.20	3.05	3.05	100	2.45	80			
76.20	79.24	3.04	3.05	100	2.81	92			
79.24	82.29	3.05	3.06	100	2.87	94			
82.29	85.34	3.05	3.05	100	2.71	89			
85.34	88.39	3.05	3.03	99	2.44	80			
88.39	91.44	3.05	2.97	97	2.51	82			
91.44	94.18	2.74	2.74	100	2.27	83			
94.18	97.53	3.35	2.72	81	2.72	81			
97.53	100.58	3.05	2.98	98	2.75	90			
100.58	102.10	1.52	1.52	100	1.53	101			
102.10	105.15	3.05	2.99	98	2.85	93			
105.15	106.68	1.53	1.53	100	1.41	92			
106.68	109.72	3.04	3.05	100	2.84	93			
109.72	112.77	3.05	3.05	100	2.92	96			
112.77	115.82	3.05	3.05	100	2.99	98			
115.82	118.87	3.05	2.89	95	2.89	95			
118.87	121.92	3.05	3.05	100	2.67	88			
121.92	124.96	3.04	2.96	97	2.70	89			
124.96	128.01	3.05	2.99	98	2.81	92			
128.01	131.06	3.05	2.96	97	2.85	93			
	131.06	E.O.H.							

SAMPLE LOG

HOLE: Rau-08-02

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
6.10	7.10	1.00	G004540	0.01	0.06	30	0.31	
10.00	11.00	1.00	G004542	0.12	0.74	767	5.58	
13.24	14.24	1.00	G004543	0.03	0.26	100	4.36	
15.24	16.24	1.00	G004544	0.07	0.50	36	5.69	
18.29	19.29	1.00	G004545	0.44	6.80	389	38.10	
20.38	21.38	1.00	G004546	0.10	0.34	18	9.96	
22.38	23.38	1.00	G004547	0.03	0.11	60	0.57	
24.38	25.38	1.00	G004548	0.01	0.18	22	0.31	
26.38	27.38	1.00	G004549	0.02	0.09	27	0.29	
28.53	29.53	1.00	G004550	0.01	0.05	31	7.29	
29.53	30.53	1.00	G004551	0.02	0.12	54	8.90	
30.53	31.53	1.00	G004552	0.02	0.08	32	7.30	
31.53	32.53	1.00	G004553	0.01	0.08	137	7.89	
33.98	34.98	1.00	G004554	0.04	0.08	17	5.56	
37.03	38.03	1.00	G004555	0.02	0.06	27	4.04	
38.03	39.03	1.00	G004556	0.02	0.08	72	2.24	
39.03	39.62	0.59	G004557	0.01	0.13	28	1.19	
39.62	40.62	1.00	G004558	0.03	0.09	369	6.53	
40.62	41.62	1.00	G004560	0.07	0.10	181	3.39	
41.62	42.74	1.12	G004562	0.13	0.22	726	13.70	
42.74	44.74	2.00	G004563	0.01	0.17	196	2.74	
44.74	46.74	2.00	G004564	0.03	0.12	62	2.17	
46.74	48.74	2.00	G004565	0.04	0.18	52	3.04	
48.74	50.25	1.51	G004566	0.03	0.10	41	2.62	
50.70	52.73	2.03	G004567	0.19	0.18	228	23.70	
52.73	54.86	2.13	G004568	4.41	0.33	57900	157.50	
54.96	55.96	1.00	G004570	0.67	0.17	5460	213.00	
55.96	57.92	1.96	G004571	1.12	0.15	23200	305.00	
57.92	59.32	1.40	G004572	0.42	0.11	1675	999.00	
59.32	60.72	1.40	G004573	7.62	0.09	41700	173.50	
60.72	62.72	2.00	G004574	0.62	0.09	6150	213.00	
62.72	64.72	2.00	G004575	0.68	0.09	8550	247.00	
64.72	66.72	2.00	G004576	0.28	0.07	2750	241.00	
66.72	68.72	2.00	G004577	0.14	0.06	4250	178.00	
68.72	70.72	2.00	G004578	1.55	0.06	5650	448.00	
70.72	72.72	2.00	G004579	0.31	0.06	3640	229.00	
72.72	74.72	2.00	G004580	1.16	0.04	2080	175.50	
74.72	76.72	2.00	G004582	0.70	0.09	5040	900.00	
76.72	78.22	1.50	G004583	0.48	0.11	3830	1780.00	
78.22	79.74	1.52	G004584	1.13	0.15	36900	245.00	
79.74	81.74	2.00	G004586	1.04	0.10	34400	263.00	
81.74	83.74	2.00	G004587	0.31	0.09	2680	449.00	
83.74	85.74	2.00	G004588	0.39	0.13	6060	2500.00	
85.74	87.74	2.00	G004589	0.27	0.55	4580	1415.00	
87.74	89.74	2.00	G004590	0.99	0.06	5830	82.00	
89.74	91.74	2.00	G004591	1.23	0.06	14800	283.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
91.74	93.74	2.00	G004592	1.00	0.26	2940	1070.00	
93.74	95.74	2.00	G004593	0.17	0.06	4890	229.00	
95.74	97.74	2.00	G004594	0.14	0.07	1060	189.00	
97.74	99.74	2.00	G004595	0.26	0.07	1845	277.00	
99.74	101.74	2.00	G004596	1.38	0.06	3130	288.00	
101.74	103.74	2.00	G004597	2.15	0.27	16300	137.50	
103.74	105.74	2.00	G004598	3.76	0.11	13300	195.50	
105.74	107.74	2.00	G004599	0.78	0.04	20400	156.50	
107.74	109.74	2.00	G004601	2.25	0.13	6520	173.00	
109.74	111.74	2.00	G004603	0.55	0.11	6510	314.00	
111.74	113.74	2.00	G004604	5.30	0.12	19500	190.00	
113.74	115.74	2.00	G004605	0.16	0.08	4770	63.70	
115.74	117.74	2.00	G004606	0.83	0.07	7570	113.00	
117.74	119.74	2.00	G004607	0.24	0.17	11700	105.50	
119.74	121.42	1.68	G004608	0.85	0.09	9120	162.50	
121.42	122.65	1.23	G004609	0.08	0.03	176	331.00	
123.65	124.65	1.00	G004610	0.02	0.10	102	5.36	
125.65	126.65	1.00	G004611	0.02	0.11	167	4.15	
127.65	128.65	1.00	G004612	0.00	0.14	78	0.40	
129.65	130.65	1.00	G004613	0.01	0.60	25	3.10	
-	-	-	G004541	14.30	8.55	452	0.06	Standard
-	-	-	G004559	0.01	0.01	<5	0.09	Blank
-	-	-	G004561	14.80	8.26	454	0.15	Standard
-	-	-	G004569	0.02	0.02	56	0.39	Blank
-	-	-	G004581	>10.0	7.90	379	0.13	Standard
-	-	-	G004585	0.01	0.01	110	25.10	Blank
-	-	-	G004600	0.01	0.01	38	1.78	Blank
-	-	-	G004602	>10.0	11.75	396	0.38	Standard

RAU PROJECT

ZONE: Tiger
SECTION: 10+040 NW

HOLE: RAU-08-03
CLAIM: Rau 71

Easting	Northing	Elev.	Depth (m)
528420	7119030	1242	62.55

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	60°	-50°	compass				

Core size: BTW
Casing depth: (m) in/out

Drilling dates:

Logged by:

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	12.19	12.19	LST	
12.19	62.55	50.36	OX	boxwork limonite

SAMPLES

Numbers: G004826-G004844

Total: 19
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: Rau-08-03

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	12.19	12.19	LST		BX																	Light to medium grey rubbly , fractured limestone with visible solution collapse brecciation texture.
12.19	62.55	50.36	OX	RBL																		Medium to dark reddish orange-brown oxide rubble with zones that appear to be slightly sideritic in composition.
																						21.50 m: COLOUR: 2.5YR 3 / 4 – dark reddish brown
																						27.70 m: COLOUR: 2.5 YR 4/4 – dark red
																						37.00 m: COLOUR: 2.5 YR 3/6 – dark red
																						39.00 m: COLOUR: 5 YR 4/6 m – yellowish red
																						57.00 m: COLOUR: 2.5 YR 4/6 – dark red
																						62.55 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

SAMPLE LOG

HOLE: Rau-08-03

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
0.00	6.09	6.09	G004826	0.01	0.24	109	4.34	
6.09	9.14	3.05	G004827	0.03	0.18	325	5.76	
9.14	12.19	3.05	G004828	0.98	1.42	2670	61.90	
12.19	15.24	3.05	G004829	2.38	3.46	12900	321.00	
15.24	21.33	6.09	G004830	9.24	4.31	13400	591.00	
21.33	27.43	6.10	G004831	1.45	8.28	19900	546.00	
27.43	28.95	1.52	G004832	0.62	5.04	23000	267.00	
28.95	32.00	3.05	G004833	0.50	3.87	22000	202.00	
32.00	36.75	4.75	G004835	0.95	1.27	35200	234.00	
36.75	39.62	2.87	G004836	0.29	1.21	26000	184.00	
39.62	42.67	3.05	G004837	0.34	0.13	9920	195.00	
42.67	47.24	4.57	G004839	0.07	0.12	1375	5.81	
47.24	51.81	4.57	G004840	0.08	0.09	2970	51.20	
51.81	57.01	5.20	G004841	0.45	0.22	12400	376.00	
57.01	60.96	3.95	G004842	1.02	0.26	34800	254.00	
60.96	62.17	1.21	G004843	0.71	0.42	11700	48.00	
62.17	62.55	0.38	G004844	1.10	1.70	15600	108.50	
-	-	-	G004834	0.01	0.05	192	1.70	BLANK
-	-	-	G004838	14.55	8.39	499	0.34	STANDARD

RAU PROJECT

ZONE: Tiger
SECTION: 10+000 NW

HOLE: Rau-08-04
CLAIM: Rau-69

Easting	Northing	Elev.	Depth (m)
528578	7119122	1296	187.45

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60°	compass				
187.45	230°	-60°	acid				

Core size: BTW
Casing depth: (m) out

Drilling dates:

Logged by: Luke Beranic

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Coments
0.00	3.04	3.04	OVB	
3.04	76.75	73.71	LST	
76.75	81.27	4.52	MBL	
81.27	86.74	5.47	VOL	
86.74	100.46	13.72	VOL	
100.46	107.50	7.04	DOL	
107.50	169.78	62.28	DOL	Mineralized
169.78	175.60	5.82	MBL	
175.60	176.31	0.71	MAG	
176.31	187.45	11.14	LEP	

SAMPLES

Numbers: G004736-G004779

Total: 44
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: Rau-08-04

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	15.24	15.24	LST		CR	BD	75															Light to medium grey limestone with later calcite veining causing minor fluid collapse brecciation and later crackling. Multiple phases of calcite veining with latest phase as smaller (0.5-2 cm wide) quartz calcite. Thin stylolitic bands occur at 75 deg to CA.
					BX	VN	80															
						VN	30	180														9.60-10.85 m: Main area of brecciation. Limestone clasts are elongate, subrounded. NOTE: tfa attitude measured from vein to bedding.
																						11.73 m: 5 cm wide vuggy Qz-Ca vein.
15.24	31.25	16.01	LST		MO	BD	65		m						t							Mottled medium and dark grey limestone with weak brecciation texture. Dark grey thin stingers/bands in medium grey limestone, dark grey is moderately dolomitized. Minor argillite bands/impurities. Qz-Ca stringers/veinlets up to 2 cm wide.
						VN	30	110														
					BX	VN	10															19.89-23.26 m: Ca veining causing crackling-brecciation. Subrounded limestone clasts.
																						28.95-29.10 m: fine grained Py filling vugs in Qz-Ca flooded area.
31.25	44.53	13.28	LST		BN	BD	60		I			I										Dark grey fluid collapse brecciated limestone with a faint banding/mottled texture. Qz-Ca stringer veinlets cut the limestone at 35 deg to CA. Clasts in breccia are smaller, more angular that those in previous intervals.
						VN	35															
44.53	63.00	18.47	LST		MO	BD	45				DCA	s										Medium to dark grey mottled LST. Darker areas are decalcified. Frequent (10 per m) Qz-Ca veinlets, are now pale yellow colour, until 46.82m
						VN	20	180							t							52.10 m: Breccia clasts now rounded. Medium grey limestone, less mottled, more defined bending, more calcareous than previous. Brecciation less common (7-10%) Py disseminated along fractures.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
63.00	76.75	13.75	LST		BN	BD	50								t							Medium grey limestone, less mottled, more defined banding, more calcareous than previous. Brecciation less common (7-10%) Py disseminated along fractures.
															w		t	cp	t			72.48-73.11 m: Pale yellow - white calcite with minor Qz veining and green-grey volcaniclastic layers.
76.75	81.27	4.52	MBL		MA	VN	5								w		t					Light grey marble with a coarse grained, vuggy Ca vein at a low angle to the CA with minor orange-brown alteration stain on fractures. Pyrite is weakly disseminated throughout. Minor silty bands occur within marble.
						BD	60															
81.27	86.74	5.47	VOL		FO	FO	60			f					t							Dark brownish grey, very fine grained, with biotite. Pale yellow-green sericite altered at contact with marble and around calcite veins . Ca veins and sericitization roughly follow the foliation. The foliation is more defined in areas of veining and sericitization. Trace pyrite is disseminated throughout.
						VN	70															
						CN	66															
86.74	100.46	13.72	VOL		FO	FO	55			I					f		t					Fissile intensely sericite altered volcaniclastic. Sericite bands occur intermixed with purplish brown interbeds of biotite rich volcaniclastic. Fairly disseminated Py and trace Po occur throughout.
										s					f		t					93.22-98.69 m: Layers are less fissile than previous, unit is more calcareous, brownish interbands contain calcite and are dominant over sericite bands. Mineralization increases towards the bottom 1 m of interval.
						FO	55			I					m		t					98.69-100.46 m: Increase in the concentration of pyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
100.46	107.50	7.04	DOL		BN	BD	55			ms					ms		w	w				Fine to medium grained dolomite with later calcite veining ~ along bedding. Sulphides are disseminated - semi-massive, medium to coarse grained and ~ along banding. Occasional interbeds sericite altered volcaniclastic.
															w	ms						101.75-102.05 m : Very coarse grained As with disseminated Py following bedding
																	t					102.20-102.27 m: Semi-massive As occurrence is patchy, and often coarse grained.
															f	ms	t					103.85-104.10 m: Increased As concentration
															w	s	t					104.90-105.26 m: Coarse grained As
107.50	110.00	2.50	DOL	MX	BN	BD	55								w	t						Dark grey faintly banded dolomite with mineralization generally in occasional coarser grained patches and zones. Occasional Ca veining occurs along banding.
110.00	169.78	59.78	DOL	MX	BN	BD	55								ms	f	t					Pale yellow-light grey dolomite with later calcite veining with associated talc. Sulphides are predominantly fine grained and occur in bands at 55 deg to CA. Occasional patches of coarser grained sulphides occur. Pyrrhotite now occurs as trace fine disseminations.
						BD	60								m	w	w					117.46-138.04 m: Sulphides become fewer and predominantly along bedding at 60 deg to CA. Pyrite is still mainly fine grained with fair coarse grained arsenopyrite and trace coarse grained pyrrhotite. The pyrrhotite does not seem to follow the banding that the other sulphides do. Occasional interbeds of medium grey silty dolomite with trace fibrous talc.
						BD	60								m	w	t					138.04-150.58 m: Similar dolomite with an increase in the concentration of talc. Fewer patches of coarser grained sulphides, as well the sulphide bands are thinner.
						BD	65								ms	w	t	Mag	t			161.46-169.78 m: The dolomite has become coarser grained. Sulphides bands are again slightly thicker and the patches are coarse grained. Minor magnetite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	60								ms	w	t					161.46-169.78 m: Begin to get zones of 2-15 cm semi-massive very coarse grained As. Only weak talc occurs.
169.78	175.60	5.82	MBL		BN	BD	80															White marble with silty grey-black horizons defining banding.
175.60	176.31	0.71	MAG		MA													Mag	I			Massive Magnetite
176.31	187.45	11.14	LEP			FO	60															Leopard spotted volcaniclastic with faint foliation occurring at 60 deg to CA.
																						E.O.H - 187.45 m.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-08-04

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.04	3.04	0.05	2	0.00	0			
3.04	6.09	3.05	1.68	55	0.95	31			
6.09	7.62	1.53	1.13	74	0.65	42			
7.62	10.66	3.04	2.76	91	2.01	66			
10.66	13.71	3.05	2.30	75	1.30	43			
13.71	15.24	1.53	1.11	73	1.04	68			
15.24	16.76	1.52	1.35	89	0.51	34			
16.76	19.81	3.05	2.76	90	2.14	70			
19.81	22.86	3.05	2.72	89	2.07	68			
22.86	25.90	3.04	2.93	96	2.91	96			
25.90	28.95	3.05	2.92	96	2.43	80			
28.95	32.00	3.05	2.80	92	2.33	76			
30.00	35.05	5.05	2.79	55	1.94	38			
35.05	39.62	4.57	3.08	67	1.15	25			
39.62	42.67	3.05	2.45	80	1.58	52			
42.67	45.72	3.05	2.70	89	1.84	60			
45.72	48.76	3.04	2.65	87	1.95	64			
48.76	51.81	3.05	2.60	85	2.05	67			
51.81	54.86	3.05	2.71	89	2.06	68			
54.86	57.91	3.05	2.76	90	1.99	65			
57.91	60.96	3.05	2.99	98	2.49	82			
60.96	62.48	1.52	1.43	94	1.27	84			
62.48	65.53	3.05	2.50	82	1.52	50			
65.53	68.58	3.05	2.91	95	2.60	85			
68.58	71.62	3.04	2.43	80	2.17	71			
71.62	74.66	3.04	2.91	96	2.46	81			
74.66	76.20	1.54	1.94	126	1.43	93			
76.20	79.24	3.04	3.00	99	2.80	92			
79.24	80.77	1.53	1.36	89	0.93	61			
80.77	83.82	3.05	2.84	93	2.20	72			
83.82	85.95	2.13	1.96	92	1.51	71			
85.95	87.47	1.52	1.22	80	0.55	36			
87.47	89.00	1.53	1.53	100	0.49	32			
89.00	91.44	2.44	2.01	82	1.24	51			
91.44	94.48	3.04	2.89	95	2.30	76			
94.48	97.53	3.05	2.82	92	2.44	80			
97.53	100.58	3.05	2.87	94	2.47	81			
100.58	106.37	5.79	5.55	96	4.62	80			
106.37	109.42	3.05	2.95	97	2.52	83			
109.42	110.94	1.52	1.20	79	0.98	64			
110.94	113.98	3.04	2.96	97	2.51	83			
113.98	117.04	3.06	2.98	97	2.66	87			
117.04	120.09	3.05	2.90	95	2.49	82			
120.09	120.70	0.61	0.61	100	0.52	85			
120.70	123.44	2.74	2.48	91	2.30	84			
123.44	126.49	3.05	2.91	95	2.59	85			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
126.49	129.54	3.05	2.75	90	2.66	87			
129.54	131.06	1.52	1.52	100	1.35	89			
131.06	133.50	2.44	2.44	100	2.20	90			
133.50	135.63	2.13	1.99	93	1.77	83			
135.63	138.68	3.05	2.89	95	2.89	95			
138.68	141.73	3.05	2.95	97	2.90	95			
141.73	144.78	3.05	2.89	95	2.77	91			
144.78	147.82	3.04	2.86	94	2.58	85			
147.82	150.87	3.05	3.04	100	3.04	100			
150.87	153.92	3.05	2.99	98	2.78	91			
153.92	156.97	3.05	3.01	99	2.90	95			
156.97	160.02	3.05	3.00	98	2.93	96			
160.02	163.06	3.04	3.01	99	2.94	97			
163.06	166.11	3.05	3.02	99	3.02	99			
166.11	169.16	3.05	2.94	96	2.77	91			
169.16	172.21	3.05	2.97	97	2.87	94			
172.21	175.26	3.05	3.06	100	3.06	100			
175.26	178.30	3.04	3.02	99	3.02	99			
178.30	181.35	3.05	2.98	98	2.90	95			
181.35	184.40	3.05	3.01	99	2.92	96			
184.40	187.45	3.05	3.02	99	2.92	96			
	187.56	E.O.H.							

SAMPLE LOG

HOLE: Rau-08-04

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
71.61	74.61	3.00	G004736	0.43	0.49	59	61.60	
74.61	77.61	3.00	G004737	0.02	0.05	24	2.81	
77.61	80.61	3.00	G004738	0.02	0.15	120	2.48	
80.61	83.61	3.00	G004739	0.01	0.17	29	0.09	
83.61	86.61	3.00	G004740	0.01	0.06	6.3	0.13	
86.61	89.61	3.00	G004741	0.02	0.07	50.6	1.68	
89.61	92.61	3.00	G004742	0.04	0.14	44.4	4.37	
92.61	95.61	3.00	G004743	0.01	0.13	34.2	0.89	
95.61	98.61	3.00	G004744	0.01	0.03	3.7	0.79	
98.61	101.61	3.00	G004745	0.36	0.11	1575	160.50	
101.61	102.61	1.00	G004746	0.92	0.08	34200	153.50	
102.61	105.61	3.00	G004747	1.10	0.13	24100	308.00	
105.61	108.61	3.00	G004748	0.07	0.13	850	9.94	
108.61	111.61	3.00	G004749	0.88	0.11	1205	338.00	
111.61	114.61	3.00	G004750	4.43	0.29	7060	1430.00	
114.61	117.61	3.00	G004751	3.50	0.11	7570	363.00	
117.61	119.61	2.00	G004752	0.85	0.19	24900	167.50	
119.61	121.61	2.00	G004754	0.50	0.08	7000	157.50	
121.61	124.61	3.00	G004756	0.75	0.10	6160	103.00	
124.61	127.61	3.00	G004757	2.16	0.11	7220	187.50	
127.61	130.61	3.00	G004758	0.84	0.07	5130	185.00	
130.61	133.61	3.00	G004759	0.70	0.12	4110	172.50	
133.61	136.61	3.00	G004760	0.24	0.09	3540	251.00	
136.61	139.61	3.00	G004761	0.19	0.06	2030	129.50	
139.61	142.61	3.00	G004762	0.71	0.05	2250	87.50	
142.61	145.61	3.00	G004763	1.02	0.05	7600	434.00	
145.61	148.61	3.00	G004764	0.95	0.07	991	129.50	
148.61	151.61	3.00	G004765	0.35	0.06	2040	117.50	
151.61	154.61	3.00	G004766	0.18	0.06	1575	334.00	
154.61	157.61	3.00	G004767	0.51	0.14	3540	148.50	
157.61	160.61	3.00	G004768	0.46	0.11	2330	292.00	
160.61	162.61	2.00	G004769	2.58	0.10	31500	174.50	
162.61	164.61	2.00	G004770	8.25	0.12	103500	316.00	
164.61	166.61	2.00	G004772	6.66	0.17	92700	283.00	
166.61	168.61	2.00	G004773	8.25	0.17	99800	329.00	
168.61	170.25	1.64	G004775	0.58	0.18	4740	70.60	
170.25	173.15	2.90	G004776	0.05	0.02	677	5.18	
173.25	175.59	2.34	G004777	0.01	0.05	63	1.10	
175.59	178.59	3.00	G004778	0.01	0.06	153	0.50	
181.59	184.59	3.00	G004779	0.01	0.02	20	0.30	
-	-	-	G004753	0.01	0.01	48	3.05	Blank
-	-	-	G004755	13.30	7.36	391	1.64	Standard
-	-	-	G004771	0.03	0.01	134	3.10	Blank
-	-	-	G004774	14.25	7.87	443	0.05	Standard

RAU PROJECT

ZONE: Tiger
SECTION: 9+935 NW

HOLE: RAU-08-05
CLAIM:

Easting	Northing	Elev.	Depth (m)
528581	7119038	1287	185

Contractor: Superior Diamond Drilling
Drill:

Core size: BTW
Casing depth: (m) out

Drilling dates:

Logged by: A.R. Kojos

Target:

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230	-60	compass				

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	7.97	7.97	OVB	
7.97	57.16	49.19	LST	
57.16	66.50	9.34	VOL-A	Altered volcaniclastic
66.50	67.60	1.10	LST	
67.60	73.45	5.85	MX	Semi massive pyrite and pyrrhotite
73.45	150.42	76.97	DOL	
150.42	156.00	5.58	LST	
156.00	185.01	29.01	MBL	

SAMPLES

Numbers: G004780-G004824

Total: 45
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: Rau-08-05

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	57.16	57.16	LST		BX	BD	65								t							Medium grey weakly solution collapse brecciated, weakly dolomitized limestone with zones of camo-spotted mottled textures. Stylolitic bands occur within more banded limestone at 65 deg to CA. The transitions between banded, mottled, and brecciated are indiscrete and occur often.
					MO																	
																						6.13-12.00 m: The limestone in this zone is slightly fractured up and has a weak brown weathering stain on the fractured surfaces.
																						15.50 m: Begin to get dolomite in irregular (generally low angle) veins.
															t							16.98 m: Gradually begin to get medium grained dolomite veins running roughly parallel to the core axis. Associated with these veins are trace concentrations of finely disseminated pyrite.
																						39.20-42.20 m: The limestone appears altered to a weak yellowy grey colour.
						BD	70															42.20-49.80 m: The core becomes more strongly solution collapse brecciated with camo-mottled interlayers. 60% breccia, 25% mottled, 15% banded. Banding is variable and occurs from 60-85 deg to CA. Pyrite is still trace.
																						49.80-55.45 m: The limestone becomes more banded than brecciated.
													MBL	w	w							55.45-57.24 m: The limestone becomes moderately marbleized. This contact is gradational. Within this zone, begin to pick up weak finely disseminated pyrite.
57.16	66.50	9.34	VOL	ALT		VN	80		m						f							Greenish grey moderately sericite altered volcaniclastic with moderate foliation occurring at 65 deg to CA. Fair fine grained disseminated pyrite occurs throughout. Calcite veins 0.5-1.5 cm in diameter cut the unit at 80 deg to CA (these veins are slightly variable though).
66.50	67.60	1.10	LST																			Zone of medium grey limestone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
67.60	73.45	5.85	MX												25		20					Semi massive pyrite (25%) and pyrrhotite (20%). The top 1 m is Po and then it becomes more disseminated Pyrite in sericite altered volcaniclastic then get into more semi-massive pyrite by 71.50 m.
73.45	150.42	76.97	DOL		BN	BD	65								20	m	t	Bi	t			Medium to coarse grained white to light grey and more commonly creamy yellow dolomite with fine to medium grained pyrite and coarse grained arsenopyrite. Banding of the Py occurs at 65 deg to CA. The Asp occasionally follows the banding but can also be patchy. Weak 5-15 cm thick interlayers of volcaniclastic (?) or silty layers occur. Overall Py 20%, Asp - 5-7%. A weak concentration of quartz veins/bands occur at 65 deg to CA. There is trace to no talc within the dolomite.
															w							79.07-85.89 m: Gradual transition into marbleized limestone and then into medium to dark grey limestone. Mineralization is trace until 81.20 m when you begin to see a weak concentration of fine-medium grained Py.
																						85.89-126.40 m: Gradual transition back into the mineralized dolomite. Trace patches of Po begin to occur at 89.50 m. Pyrite is fine to medium grained, banded at 15% concentration. Arsenopyrite occurs at medium to coarse grained patches at 2-5% concentration. Banding of the sulphides occurs at 65 deg to CA. Thin interlayers of VOL still occur within the dolomite.
															f	w	t					85.89-126.40 m: Gradual transition back into the mineralized dolomite. Trace patches of Po begin to occur at 89.50 m. Pyrite is fine to medium grained, banded at 15% concentration. Arsenopyrite occurs at medium to coarse grained patches at 2-5% concentration. Banding of the sulphides occurs at 65 deg to CA. Thin interlayers of VOL still occur within the dolomite.
																						119.00 m: The bands of mineralization are becoming thinner, averaging 0.5 cm thick.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						126.40 m: A coarse grained crystal of bismuthanite clearly occurs in the dolomite.
												ms										126.85 m: There is a 25 cm zone of moderately-strongly oxidized dolomite. The material is limonitic, reddish-orange in colour.
															f	w						132.50 m: The concentration of the coarse grained light to medium grey dolomite increases. Pyrite is very fine grained fair to moderate in concentration, while Asp is weak.
															m	w	t					142.50 m: Dustings and fine grained crystals of pyrite increase in concentration to moderate. Arsenopyrite is weak, and medium to coarse grained. Pyrrhotite is only trace fine grained disseminations.
150.42	156.00	5.58	LST		MA								MBL	w								There is a gradational transition into medium to dark grey rather massive limestone with weak marbleized appearance.
156.00	185.01	29.01	MBL		BN	BD									t			Mag	f			Gradational change into white marble with bands of semi-massive magnetite at 75 deg to CA. 5% magnetite occurs starting after 155.50 m and as swirly bands within the marble. Trace Py occurs as fine grained thin stringers.
																		Mag	w			At 159.50 m, the concentration of magnetite decreases slightly to 1-3%.
																						185.01 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-08-05

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	5.18	5.18	1.11	21	0.26	5			
5.18	7.97	2.79	1.10	39	0.00	0			
7.97	12.19	4.22	3.11	74	1.37	32			
12.19	15.24	3.05	2.52	83	1.62	53			
15.24	18.28	3.04	2.44	80	1.47	48			
18.28	20.11	1.83	0.84	46	0.31	17			
20.11	22.86	2.75	2.55	93	1.92	70			
22.86	25.90	3.04	2.90	95	2.43	80			
25.90	28.95	3.05	2.90	95	2.14	70			
28.95	32.00	3.05	2.89	95	2.37	78			
32.00	35.05	3.05	2.90	95	2.51	82			
35.05	38.10	3.05	2.87	94	1.95	64			
38.10	41.14	3.04	3.00	99	2.92	96			
41.14	44.19	3.05	2.98	98	2.79	91			
44.19	47.24	3.05	2.84	93	1.62	53			
47.24	50.29	3.05	2.17	71	1.04	34			
50.29	53.03	2.74	2.45	89	1.07	39			
53.03	55.47	2.44	2.44	100	1.95	80			
55.47	57.91	2.44	2.37	97	1.88	77			
57.91	60.96	3.05	2.93	96	2.43	80			
60.96	63.70	2.74	2.42	88	1.77	65			
63.70	66.14	2.44	2.44	100	1.85	76			
66.14	68.58	2.44	2.25	92	2.19	90			
68.54	71.32	2.78	2.48	89	1.96	71			
71.32	74.37	3.05	3.02	99	2.74	90			
74.37	77.42	3.05	3.05	100	2.83	93			
77.42	80.47	3.05	3.04	100	2.85	93			
80.47	83.67	3.20	3.01	94	2.77	87			
83.67	86.72	3.05	2.96	97	2.70	89			
86.72	89.92	3.20	3.00	94	2.88	90			
89.92	92.96	3.04	2.85	94	2.46	81			
92.96	96.01	3.05	2.90	95	2.67	88			
96.01	99.06	3.05	2.99	98	2.58	85			
99.06	102.11	3.05	2.91	95	2.62	86			
102.11	105.16	3.05	2.95	97	2.41	79			
105.16	108.20	3.04	2.96	97	2.84	93			
108.20	111.25	3.05	2.95	97	2.89	95			
111.25	114.30	3.05	2.87	94	2.77	91			
114.30	117.34	3.04	2.97	98	2.65	87			
117.34	118.56	1.22	1.10	90	0.93	76			
118.56	121.61	3.05	2.90	95	2.61	86			
121.61	123.44	1.83	1.65	90	1.31	72			
123.44	126.49	3.05	2.85	93	2.35	77			
126.49	129.54	3.05	2.70	89	2.15	70			
129.54	132.58	3.04	2.94	97	2.70	89			
132.58	135.63	3.05	2.98	98	2.78	91			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
135.63	138.68	3.05	2.87	94	2.69	88			
138.68	141.73	3.05	3.02	99	3.02	99			
141.73	144.78	3.05	3.03	99	2.73	90			
144.78	147.82	3.04	2.90	95	2.47	81			
147.82	150.87	3.05	2.80	92	2.32	76			
150.87	153.92	3.05	2.81	92	2.40	79			
153.92	156.97	3.05	2.92	96	2.25	74			
156.97	160.02	3.05	2.81	92	2.50	82			
160.02	163.08	3.06	2.71	89	0.83	27			
163.08	166.18	3.10	2.37	76	1.96	63			
166.18	169.16	2.98	2.91	98	2.80	94			
169.16	172.21	3.05	2.91	95	2.83	93			
172.21	175.26	3.05	2.98	98	2.98	98			
175.26	178.31	3.05	3.03	99	2.98	98			
178.31	181.36	3.05	2.92	96	2.76	90			
181.36	184.04	2.68	2.65	99	2.65	99			
184.04	185.01	0.97	0.95	98	0.90	93			
	185.01	E.O.H.							

SAMPLE LOG

HOLE: Rau-08-05

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
49.95	52.95	3.00	G004780	0.03	0.25	43	1.00	
52.95	55.95	3.00	G004781	0.01	0.25	47	1.00	
55.95	58.95	3.00	G004782	0.01	0.25	24	1.00	
58.95	61.95	3.00	G004783	0.01	0.25	27	1.00	
61.95	64.95	3.00	G004784	0.03	0.25	114	1.00	
64.95	67.95	3.00	G004785	0.04	0.25	66	1.00	
67.95	69.71	1.76	G004786	0.21	0.25	659	442.00	
69.71	71.16	1.45	G004788	0.02	0.25	84	74.00	
71.16	71.50	0.34	G004789	0.12	0.25	401	1765.00	
71.50	73.38	1.88	G004790	0.96	0.25	10005	517.00	
73.38	75.38	2.00	G004791	4.99	0.25	10005	384.00	
75.38	77.38	2.00	G004792	13.90	0.25	10005	275.00	
77.38	79.38	2.00	G004793	0.02	0.25	212	2.00	
79.38	82.38	3.00	G004794	0.56	0.25	3540	246.00	
82.38	85.38	3.00	G004795	0.02	0.25	76	1.00	
85.38	88.38	3.00	G004796	1.88	0.25	10005	234.00	
88.38	91.38	3.00	G004797	2.48	0.25	10005	170.00	
91.38	94.38	3.00	G004798	2.50	0.25	10005	192.00	
94.38	97.38	3.00	G004799	0.53	0.25	7890	149.00	
97.38	100.38	3.00	G004800	0.58	0.25	4930	142.00	
100.38	103.38	3.00	G004801	0.22	0.25	4760	71.00	
103.38	106.38	3.00	G004802	0.27	0.25	6020	87.00	
106.38	109.38	3.00	G004803	0.27	0.90	8260	65.00	
109.38	112.38	3.00	G004804	1.18	2.30	10005	118.00	
112.38	115.38	3.00	G004805	1.41	0.25	10005	761.00	
115.38	118.38	3.00	G004806	0.24	4.50	7740	184.00	
118.38	121.38	3.00	G004807	0.91	1.80	10005	300.00	
121.38	123.38	2.00	G004809	0.39	6.80	10005	133.00	
123.38	126.38	3.00	G004811	0.57	4.00	10005	1990.00	
126.38	129.38	3.00	G004812	0.78	1.80	6170	503.00	
129.38	132.38	3.00	G004813	0.75	5.10	10005	163.00	
132.38	134.38	2.00	G004814	1.80	6.60	10005	276.00	
134.38	136.38	2.00	G004815	0.04	5.90	10005	216.00	
136.38	138.38	2.00	G004816	2.44	2.10	10005	355.00	
138.38	140.38	2.00	G004817	2.55	3.40	10005	214.00	
140.38	142.38	2.00	G004818	4.60	5.10	10005	187.00	
142.38	145.38	3.00	G004819	4.33	4.20	10005	241.00	
145.38	147.38	2.00	G004820	3.55	4.50	10005	312.00	
147.38	150.04	2.66	G004821	2.05	4.80	10005	195.00	
150.04	153.04	3.00	G004822	0.08	0.25	528	8.00	
153.04	156.04	3.00	G004824	0.03	0.25	98	1.00	
156.04	159.04	3.00	G004825	0.03	0.25	53	1.00	
-	-	-	G004787	0.01	<0.5	<5	<2	Blank
-	-	-	G004808	14.40	7.80	559	<2	Standard
-	-	-	G004810	0.03	<0.5	61	<2	Blank

SAMPLE LOG

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-	G004823	14.45	6.40	971	11.00	Standard

RAU PROJECT

ZONE: Tiger
SECTION: 10+120 NW

HOLE: Rau-08-06
CLAIM: Rau-69

Easting	Northing	Elev.	Depth (m)
528467	7119179	1176	152.4

Contractor: Superior Diamond Drilling Inc.
Drill: Hyrdro Core Type 1200

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230	-60	compass				
152.4	230	-62	acid test				

Core size: BTW
Casing depth: (m) out

Drilling dates: July 15th - July 17th 2008

Logged by: A. R. Kjos

Target: Mineralized (Tiger Striped) Zone, Au

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	5.70	5.70	LST	Altered
5.70	21.00	15.30	LST	
21.00	68.00	47.00	DOL	Mineralized
68.00	76.85	8.85	VOL	
76.85	99.01	22.16	DOL	Mineralized
99.01	113.00	13.99	VOL	Altered
113.00	152.40	39.40	LEP	Altered Volcanic

SAMPLES

Numbers: G004845-G004886

Total: 42
Date sent: July 21st 2008
Certificate:

COMMENTS

Collared just above mineralized zone

GEOLOGY LOG

HOLE: Rau-08-06

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	5.70	5.70	LST	ALT																		Light grey, altered, massive limestone (fizzes strongly with acid).
5.70	21.00	15.30	LST		BN	BD	50						CHL	t	w	t		Bi	t	Sp	t	Foliated to brecciated grey limestone with significant (30%) Qz+/- Ca +/- DOL vein/flood. Minor talc and muscovite zones associated with quartz veining. Coarse stringers, blebs, and disseminations Py with trace coarse blebs of arsenopyrite. Faint banding occurs at 50 deg to CA.
																						Low angle Qz/Ca and significant coarse DOL veining. Mineralization increases after 15m.
																		Bi	w			13.01-13.15 m: Shiny, soft, coarse crystalline bismuthanite.
																		Sp	w			14.10 m and 15.20 m: blebs sphalerite.
													CHL	w								16.50-17.00 m: Begin to see faint chlorite alteration.
21.00	68.00	47.00	DOL	MX											20	ms						Mineralized coarse grained grey/creamy white dolomite with a faint banded texture. Up to 75% sulphides, but more typically 30%, with 15-20% Py, 10% As. Fine stringers and bands of pyrite, and more coarse grained clusters of arsenopyrite crystals.
															35	s						31.15-36.90 m: Mineralization increases to 40-50% sulphide, semi-massive Py/As.
															s	f						36.90 m: Begin to see more prominent quartz veining. With this there is a decrease in total sulphide percentage to 20%.
						BN	65								s	ms						54.15-68.05 m: mineralization continues, 15-35%, with 10-20% Py and 5-15% As. Less quartz but still occasional veins. Pyrite bands are roughly aligned at ~60-70 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
68.00	76.85	8.85	VOL			FO	60								ms							Strongly foliated, tan to beige volcaniclastic. Arsenopyrite mineralization ends but pyrite mineralization continues with Ca veinlets/stringers and amygdules? 10% Py. Foliation occurs at 50-70 deg to CA.
76.85	99.01	22.16	DOL	MX											s							Back to mineralized dolomite, almost all pyrite (15% total). Banding now occurs nearly perpendicular to core axis (80 deg to CA). A few volcaniclastic stringers occur within.
															ms							82.13-83.05 m: Maroon volcanic layer with 10% Py.
															s							83.05-89.02 m: Same mineralized dolomite as above, with more prominent banding of the pyrite.
															ms							89.02-99.01 m: A few thin sericite volcanic layers, overall still mineralized DOL, with 7-10% Pyrite. Some altered limonite zones and minor quartz veins occur.
																		Sp	w			98.00 m: Small red sphalerite crystals occur in a talc zone.
99.01	113.00	13.99	VOL	ALT	FO	FO	60			f												Foliated, variably sericite altered volcaniclastic. Foliation occurs at 60 deg to CA.
															f							99.01-100.00 m: Sericitic volcanic with finely disseminated fair pyrite
																						100.00-101.90 m: Maroon volcanic with disseminated pyrite.
																						101.90 m: Gradational change into greenish black, fairly chlorite altered foliated volcaniclastic.
113.00	152.40	39.40	LEP		FO	FO	65															113.00 m: Start getting elongated leopard printed texture. This change is gradational from the dark volcaniclastic non spotted volcaniclastic. This unit contains dark biotite, but the percentages are difficult to distinguish. Local stringers of sericite alteration occur throughout. A weak foliated texture occurs at 65 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						125.00 m: Interbeds dark volcaniclastic become more common. It seems that the leopard is a variable alteration of the volcaniclastic unit, with increased Ca.
																						152.40 m: E.O.H.

GEOTECHNICAL LOG

HOLE: Rau-08-06

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.05	3.05	0.23	8	0.00	0			
3.05	4.57	1.52	0.64	42	0.00	0			
4.57	7.62	3.05	1.78	58	1.05	34			
7.62	10.67	3.05	2.83	93	2.43	80			
10.67	13.72	3.05	2.69	88	2.38	78			
13.72	16.70	2.98	2.64	89	1.91	64			
16.70	19.41	2.71	2.67	99	2.42	89			
19.41	22.86	3.45	2.73	79	2.34	68			
22.86	24.38	1.52	1.24	82	0.79	52			
24.38	27.45	3.07	2.63	86	1.88	61			
27.45	30.48	3.03	2.57	85	1.98	65			
30.48	33.53	3.05	2.58	85	2.17	71			
33.53	36.58	3.05	2.72	89	2.40	79			
36.58	39.62	3.04	2.68	88	2.36	78			
39.62	42.67	3.05	2.83	93	2.69	88			
42.67	45.72	3.05	2.78	91	2.63	86			
45.72	48.77	3.05	2.79	91	2.64	87			
48.77	51.82	3.05	2.49	82	2.01	66			
51.82	53.34	1.52	1.29	85	1.05	69			
53.34	56.39	3.05	2.83	93	2.56	84			
56.39	59.44	3.05	2.65	87	2.47	81			
59.44	62.48	3.04	2.72	89	2.34	77			
62.48	65.53	3.05	2.84	93	2.73	90			
65.53	68.58	3.05	2.72	89	2.47	81			
68.58	71.63	3.05	2.70	89	2.44	80			
71.63	74.68	3.05	2.66	87	2.59	85			
74.68	77.72	3.04	2.76	91	2.24	74			
77.72	80.77	3.05	2.89	95	2.80	92			
80.77	83.82	3.05	2.91	95	2.91	95			
83.82	86.87	3.05	2.81	92	2.57	84			
86.87	89.92	3.05	3.00	98	2.95	97			
89.92	92.96	3.04	2.89	95	2.69	88			
92.96	96.01	3.05	2.87	94	2.64	87			
96.01	99.06	3.05	2.92	96	2.55	84			
99.06	102.10	3.04	2.57	85	2.27	75			
102.10	105.11	3.01	2.45	81	2.05	68			
105.11	108.20	3.09	2.68	87	1.73	56			
108.20	111.25	3.05	1.18	39	0.33	11			
111.25	114.30	3.05	2.42	79	1.59	52			
114.30	117.35	3.05	2.83	93	2.59	85			
117.35	120.40	3.05	2.67	88	2.40	79			
120.40	123.44	3.04	2.76	91	2.47	81			
123.44	126.49	3.05	2.35	77	1.67	55			
126.49	128.02	1.53	1.31	86	0.86	56			
128.02	131.06	3.04	2.90	95	2.90	95			
131.06	134.11	3.05	2.74	90	2.50	82			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
134.11	135.64	1.53	1.05	69	0.87	57			
135.64	138.68	3.04	2.89	95	2.68	88			
138.68	141.73	3.05	2.72	89	2.57	84			
141.73	144.78	3.05	2.78	91	2.40	79			
144.78	149.35	4.57	4.29	94	4.27	93			
149.35	152.40	3.05	2.94	96	2.72	89			
	152.40	E.O.H.							

SAMPLE LOG

HOLE: Rau-08-06

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
6.70	9.70	3.00	G004845	0.42	0.26	2070	85.80	
9.70	12.70	3.00	G004846	0.93	0.24	439	1470.00	
12.70	15.70	3.00	G004847	0.47	0.45	2340	5860.00	
15.70	18.70	3.00	G004848	0.03	0.07	162	15.80	
18.70	21.70	3.00	G004849	0.99	0.12	1810	268.00	
21.70	24.70	3.00	G004850	4.63	0.34	33000	516.00	
24.70	27.70	3.00	G004851	2.73	0.13	45500	273.00	
27.70	30.70	3.00	G004852	1.79	0.14	51600	360.00	
30.70	32.70	2.00	G004853	2.76	0.15	73900	219.00	
32.70	34.70	2.00	G004854	1.15	0.22	53600	656.00	
34.70	36.70	2.00	G004855	1.61	0.14	68100	378.00	
36.70	39.70	3.00	G004856	1.76	0.14	33500	289.00	
39.70	42.70	3.00	G004858	1.14	0.10	4570	193.50	
42.70	45.70	3.00	G004859	0.67	0.08	9060	72.90	
45.70	48.70	3.00	G004860	0.39	0.09	1830	74.20	
48.70	51.70	3.00	G004861	0.42	0.08	2160	120.00	
51.70	54.70	3.00	G004863	0.34	0.31	4970	301.00	
54.70	56.70	2.00	G004864	0.77	0.09	24100	252.00	
56.70	58.70	2.00	G004865	0.62	0.11	24500	290.00	
58.70	60.70	2.00	G004866	1.04	0.10	16800	418.00	
60.70	62.70	2.00	G004867	8.51	0.15	38300	395.00	
62.70	64.70	2.00	G004868	2.76	0.30	25300	495.00	
64.70	66.70	2.00	G004869	1.68	0.10	7270	342.00	
66.70	68.70	2.00	G004870	0.43	0.12	4070	95.50	
68.70	71.70	3.00	G004871	0.27	0.46	703	6.18	
71.70	74.70	3.00	G004872	0.04	0.14	56	1.85	
74.70	77.70	3.00	G004873	0.04	0.36	292	63.40	
77.70	80.70	3.00	G004874	0.11	0.10	459	98.60	
80.70	83.70	3.00	G004875	0.15	0.98	709	62.60	
83.70	86.70	3.00	G004876	0.12	0.09	473	42.80	
86.70	89.70	3.00	G004877	0.03	0.17	266	221.00	
89.70	92.70	3.00	G004878	0.09	0.25	191	135.50	
92.70	95.70	3.00	G004880	0.03	0.49	141	29.50	
95.70	98.70	3.00	G004881	0.09	5.26	484	369.00	
98.70	101.70	3.00	G004882	0.03	0.28	145	273.00	
101.70	104.70	3.00	G004884	0.01	0.21	16	0.97	
104.70	107.70	3.00	G004885	0.01	0.28	9	0.45	
107.70	110.70	3.00	G004886	0.01	0.20	14	0.41	
-	-	-	G004857	<0.01	<0.5	126	<2	Blank
-	-	-	G004862	NSS	9.00	479	2.00	Standard
-	-	-	G004879	15.20	9.80	486	3.00	Standard
-	-	-	G004883	<0.01	<0.5	7	<2	Blank

RAU PROJECT

ZONE: Tiger
SECTION: 10+000 NW

HOLE: Rau-08-07
CLAIM: Rau 98F

Easting	Northing	Elev.	Depth (m)
528628	7119153	1339	248.41

Contractor: Superior Diamond Drilling Inc.
Drill: Hyrdro Core Type 1200

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230	-60	compass				
245.36	230	-63	acid test				

Core size: BTW
Casing depth: 3.30 (m) out

Drilling dates: July 20th - July 23rd, 2008

Logged by: A. R. Kjos

Target: Mineralized Zone, Au Play, Anticlinal Trap in assymetrically folded limestone (Bouvette fm.)

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.57	4.57	OVB	
4.57	22.19	17.62	LST	Fossiliferous
22.19	27.47	5.28	VOL	Altered
27.27	35.39	8.12	VOL	
35.39	40.80	5.41	VOL	Altered
40.8	136.85	96.05	LST	
136.85	142.75	5.90	LST	with interbedded volcaniclastic
142.75	145.53	2.78	MBL	
145.53	152.9	7.37	VOL	
152.9	162.75	9.85	VOL	Altered
162.75	166.85	4.10	VOL	
166.85	172.2	5.35	VOL	Altered
172.2	181.3	9.10	DOL	Mineralized
181.3	181.96	0.66	VOL	
181.96	239.7	57.74	DOL	
239.7	248.41	8.71	LST	
		248.61		

SAMPLES

Numbers: H246001-H246038
H246250-H246260; H246263-H246272
Total: 59
Date sent:
Certificate:

COMMENTS

Void spaces in hanging wall rock, rods dropped 1-2 ft. while drilling. Asp is present throughtout the mineralized zone, but only is significant at the top and bottom of the minerized interval. The top of the interval has stronger Asp then the bottom, relatively. It appears that Py and Asp crystallized synonymously, overgrowths of each on one another are present within the same vein.

HOLE: Rau-08-07

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	4.57	4.57	OVB																			
4.57	22.19	17.62	LST	FOS	BX	BD	40								t							Dark grey limestone that has become fluid collapse brecciated by carbonate flood. Clasts are 0.5-1.5 cm and angular. Later calcite veins cut the breccia at 50 deg to the CA. Limestone shows broken crinoid fragments along with other marine fossil fragments. In some areas original bedding is visible but not extremely clear. Rare stylolites represented by dark grey stylolitic bands occur at 40 deg to CA. Trace disseminated Py occurs throughout. The bottom 50 cm of the unit becomes quite gritty or micritic looking and is more massive in nature and less brecciated.
						VN	50															
22.19	27.47	5.28	VOL	ALT	FO	FO	70			m					w		t					Blackish grey, fine grained volcaniclastic with increasing sericite alteration starting at 23.60 m. From this point on the volcaniclastic shows medium green sericite layers bounded by the purplish brown bleached looking volcaniclastic. Pyrite replaces the calcite amygdules well as calcite veins that parallel foliation. Overall amygdales concentrations is low 2-3%.
						VN	70															
27.47	35.39	7.92	VOL		AM	FO	45								t							Black finely laminated volcaniclastic with increasing concentration of amygdules at 30.30 m. From this point slightly irregularly shaped vesicles and cross-cutting veins (60-80 deg to CA) are filled with calcite and rarely a greenish-grey mineral (Chlorite?) Py only occurs are rare specs.
						VN	70															
						VN	30															33.36-33.47 m: massive Qz-Ca vein with a very irregular contact.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						35.09-35.39 m: Slight bleaching of the volcaniclastic to a pale brown colour from the unit below.
35.39	40.80	5.41	VOL	ALT	AM	FO	60			m					w							Sericite altered amygdaloidal volcaniclastic, greenish pink in colour and more massive looking with a slight foliation defined by the amygdules. . Does not have the highly foliated texture that other altered volcanics have, only a weak one running at 60 deg to CA. Py replaces calcite veins that cut the unit. These veins are quite erratic in nature. 1-3 % smoky quartz also occurs scattered within the unit.
																						40.40-40.80 m: gradation in and out between altered amygdaloidal volcaniclastic to massive looking limestone.
40.80	43.24	2.44	LST		MA																	Massive, medium to dark grey limestone with slight fluid flow texture and very erratic looking.
43.24	48.03	4.79	LST		BX																	Matrix supported brecciated limestone with angular clasts 0.5-2 cm in diameter and a calcite matrix. Possible relict bedding at 55 deg to ca (although it is questionable if the limestone clast is in its original position).
												m	CL	s								47.00-48.03 m: Highly fractured slightly altered zone (FAULT??) The fractured surfaces have a strong red-orange alteration colouration. The limestone itself is strongly fluid collapse brecciated with a highly altered matrix.
48.03	53.00	4.97	LST		BN	BD	85								n							Thinly laminated light and dark grey limestone with dark grey stylolites throughout running at 85 deg to CA. Gritty horizons occur occasionally.
						VN	70															
53.00	57.80	4.80	LST		MO	VN	10															Gradual change into a more mottle looking limestone. Calcite veins cut the limestone but original bedding is masked by the mottled texture. There is no visible mineralization.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
57.80	76.15	18.35	LST		BN	BD	10															Collapse breccia represents now 20% or the core. The clasts are subrounded and 0.5-1.0 cm in diameter. The rest of the interval is disturbed but non brecciated limestone (50%) and non-disturbed bedded and stylolitic limestone (30%). The contacts between these three styles of limestone are gradual and frequent. The stylolites occur at 70 deg to CA
						BD	70															62.00 m: There is a zone if vuggy limestone filled with coarse grained sub to euhedral calcite.
76.15	100.60	24.45	LST		BX	VN	60								t							Extensive solution collapse breccia, with rounded to subrounded clasts. Rare pyrite occurs generally associated with later calcite veins that cut the breccia. Dark grey silty horizons also occur within.
100.60	111.47	10.87	LST		MO	BD	40															The limestone have again become mottled pale and medium grey in texture and colour. Brecciation still occurs, but it is a mosaic breccia, very clean looking with clean breaks of the limestone and only little calcite matrix. The clasts are angular and vary in size from <1 cm to 3-4 cm. Rare bedding occurs at 40 deg to CA. The contact with the above unit is sharp but not well defined.

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
111.47	136.85	25.38	LST		BX	BD	45															The breccia again appears to be more of a collapse breccia, with more rounded clasts, and increase in the calcite concentration. Clasts are smaller 1-2 cm and the zones of limestone that are non brecciated show a more fluid altered texture making bedding indistinguishable in many cases. In a few areas bedding is distinguishable at 45 deg to CA. Stylolites also occur throughout. Thick quartz carbonate veins 3-5 cm thick with a slight yellow hue cut the both the brecciated and non-brecciated limestone. In some areas coarse grained dolomite occurs with grains 2-3 mm in diameter and having a sugary texture.
						VN	60-70															
136.85	142.75	5.90	LST		BN	BD	70								w							Medium to dark grey bedded limestone with Py disseminated along bedding planes. Rare Qz-Ca veins cut bedding. Rare dark grey silty horizons up to 10 mm thick occur interbedded with the limestone. Weak pyrite is disseminated along bands at 70 deg to CA.
						VN	30															At 138.70 m: begin to get siderite alteration in thin bands cutting the unit.
			VOL																			139.70 m: Possible volcaniclastic layered within.
			VOL																			141.30-141.45 m: Sericite altered volcaniclastic bed.
142.75	145.53	2.78	MBL		MA	BD	60								t							Massive white marble with rare silty horizons and trace Py along faint relict bedding.
145.53	152.90	7.37	VOL		FO	FO	75			f					t							Black fine grained volcaniclastic with thin foliation and thin 2-5 mm thick calcite veinlets that follow foliation. Overall Py is rare but when seen it occurs as course grained crystals. Fair sericite alteration occurs with the contact of the marble.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
152.90	162.75	9.85	VOL	ALT	FO	FO	75			w					t							Slightly sericite altered volcaniclastic with a characteristic bleached pale greyish green colour. Very minor disseminated pyrite occurs.
162.75	166.85	4.10	VOL		FO	FO	70															Zone of less altered volcaniclastic with a very faint foliation.
166.85	172.20	5.35	VOL	ALT	FO	FO	75			ms					f							A gradual increase in the amount of sericite alteration until 169 m where the volcaniclastic shows the characteristic yellow green sericite alteration colour with faint thin layers of pale pinkish brown bleached volcaniclastic. Increase in the pyrite concentration to fair. The pyrite occurs as fine grained disseminations throughout.
172.20	181.30	9.10	DOL	MX	BN	BD	70								ms	30	f					Interval starts with a 20 cm massive quartz vein with associated Py and Po. Vein angle slightly obscured by mineralization diffusing from its boundary. Intensely mineralized coarse grained dolomite with faint banded texture. Asp is very coarse grained and overprints bedding. Py and Pyrrhotite are fine to medium grained and mainly constrained to banding. Fibrous green crystals quite soft with a radial nature (gypsum? or actinolite?) occur on the periphery of highly Asp mineralized zones.
						VN	70															
181.30	181.96	0.66	VOL		FO	FO	70			l												Black volcaniclastic with fine grained disseminated Py and faint foliated. Unit fizzes intensely when exposed with acid. Relict vesicles have been filled with pyrite and elongated in the direction of foliation. Ca veins cut the unit.
						VN	45															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
181.96	190.40	8.44	DOL		BN	BD	70								m	f	t					Decrease in sulphide content particularly that of Asp. Also the dolomite has become light to medium grey as well as cream coloured.
																						185.90-190.50 : Medium grey limestone with weakly disseminated pyrite and trace pyrrhotite. Small zones of coarse grained dolomite occur as well.
															w		t					186.30-186.87 m: Quartz vein with pyrite, pyrrhotite and rare grey talc.
																						Upper and lower contacts are sharp but undefined.
190.40	211.40	21.00	DOL		BN	BD	55								l	w	w					Mineralized dolomite with a decrease in Asp from the units above. Pyrrhotite and pyrite have increased in concentration and grain size but are still disseminated within bedding planes. Patches of white to light grey talc (3-5%) occur near areas of increased mineralization and increase in grain size of dolomite. Pyrite bands occur at 60 deg to CA but become concentrated in a few pockets within the interval.
211.40	239.70	28.30	DOL		BN	BD	70								ms	t	t	Bi	t			Mineralization habit has changed slightly; Py occurs as either semi-massive zones (211.22-212.17 m, 214.52-214.70 m, 216.61-216.84 m, and 222.30-223.95 m) or in very thing <1 mm bands within the coarse grained dolomite host. Overall the pyrite is fine to medium grained but large cubic crystal are occasionally associated with the semi-massive zones. Quartz occurs within the dolomite and seems to cut the mineralization. The concentration of talc has decreased slightly.
			VOL		FO	FO	55															236.22-236.55 m: Volcaniclastic layer. Purple brown in colour with sericite bands at 55 deg to CA following the FO.

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
			VOL		FO	FO	55								w							237.56 -239.70 m: In and out of sericite altered volcaniclastic with a FO at 55 deg to CA. The volcaniclastic contains no mineralization, but the interlayered dolomite contains disseminated pyrite.
239.70	248.41	8.71	LST		FO	FO	70								t							Leopard print textured limestone with white calcite "clasts" and dark grey to black limestone "matrix". Mineralization has gradually decreased to nothing. A weak foliation occurs at 70 deg to CA. Following this FO, there are Ca bands 0.2-0.7 cm thick. Biotite is quite easily distinguishable within the unit, but overall it is a dark grey colour.
																						248.41 m: E.O.H.

GEOTECHNICAL LOG

HOLE: Rau-08-07

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	4.57	4.57	0.12	3	0.00	0			
4.57	7.62	3.05	2.30	75	0.28	9			
7.62	9.14	1.52	1.35	89	1.14	75			
9.14	10.67	1.53	1.08	71	0.64	42			
10.67	13.72	3.05	2.54	83	2.17	71			
13.72	15.24	1.52	1.47	97	1.31	86			
15.24	18.29	3.05	2.52	83	1.11	36			
18.29	21.34	3.05	2.87	94	2.68	88			
21.34	24.38	3.04	2.67	88	2.17	71			
24.38	27.43	3.05	2.74	90	2.07	68			
27.43	30.48	3.05	2.37	78	1.34	44			
30.48	32.00	1.52	1.39	91	1.01	66			
32.00	35.05	3.05	2.56	84	1.72	56			
35.05	38.10	3.05	2.90	95	2.80	92			
38.10	41.15	3.05	2.86	94	2.52	83			
41.15	42.67	1.52	1.21	80	0.95	62			
42.67	45.72	3.05	2.51	82	1.71	56			
45.72	48.77	3.05	2.31	76	1.20	39			
48.77	51.82	3.05	1.91	63	0.64	21			
51.82	54.86	3.04	2.56	84	1.77	58			
54.86	57.91	3.05	2.01	66	1.25	41			
57.91	60.96	3.05	2.92	96	2.72	89			
60.96	64.01	3.05	3.02	99	1.95	64			
64.01	67.06	3.05	1.61	53	1.30	43			
67.06	70.10	3.04	2.87	94	2.80	92			
70.10	73.15	3.05	2.68	88	2.47	81			
73.15	76.20	3.05	2.84	93	2.08	68			
76.20	79.25	3.05	2.59	85	2.43	80			
79.25	82.30	3.05	2.71	89	2.45	80			
82.30	85.34	3.04	2.94	97	2.46	81			
85.34	88.39	3.05	2.81	92	2.47	81			
88.39	91.14	2.75	2.56	93	2.56	93			
91.14	94.18	3.04	2.78	91	2.44	80			
94.18	97.23	3.05	2.76	90	2.11	69			
97.23	100.28	3.05	2.88	94	1.06	35			
100.28	103.33	3.05	2.96	97	2.83	93			
103.33	106.38	3.05	2.90	95	2.68	88			
106.38	109.42	3.04	2.81	92	2.57	85			
109.42	112.47	3.05	2.62	86	1.59	52			
112.47	115.52	3.05	2.82	92	2.42	79			
115.52	118.57	3.05	2.86	94	2.61	86			
118.57	121.62	3.05	2.86	94	1.53	50			
121.62	124.66	3.04	2.72	89	2.63	87			
124.66	126.49	1.83	1.76	96	1.57	86			
126.49	129.54	3.05	2.76	90	2.58	85			
129.54	132.59	3.05	3.01	99	2.85	93			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
132.59	135.64	3.05	2.84	93	2.45	80			
135.64	138.68	3.04	2.81	92	1.78	59			
138.68	141.73	3.05	2.67	88	2.24	73			
141.73	144.78	3.05	2.93	96	2.62	86			
144.78	147.83	3.05	2.88	94	2.79	91			
147.83	150.88	3.05	2.81	92	2.47	81			
150.88	153.92	3.04	2.76	91	2.14	70			
153.92	156.97	3.05	2.86	94	2.71	89			
156.97	160.02	3.05	2.86	94	2.40	79			
160.02	163.07	3.05	2.70	89	1.92	63			
163.07	164.59	1.52	1.42	93	1.22	80			
164.59	167.64	3.05	2.65	87	1.54	50			
167.64	170.69	3.05	2.84	93	2.77	91			
170.69	173.74	3.05	2.65	87	2.22	73			
173.74	176.78	3.04	2.87	94	2.39	79			
176.78	179.83	3.05	2.73	90	2.30	75			
179.83	184.40	4.57	3.90	85	2.38	52			
184.40	187.45	3.05	2.69	88	2.51	82			
187.45	190.50	3.05	2.71	89	2.26	74			
190.50	192.02	1.52	1.21	80	0.74	49			
192.02	195.07	3.05	2.98	98	2.35	77			
195.07	198.12	3.05	2.69	88	2.26	74			
198.12	201.17	3.05	2.44	80	1.77	58			
201.17	204.22	3.05	2.92	96	2.74	90			
204.22	207.26	3.04	2.61	86	2.53	83			
207.26	210.31	3.05	2.48	81	1.51	50			
210.31	213.36	3.05	2.68	88	1.28	42			
213.36	214.88	1.52	1.52	100	1.25	82			
214.88	217.93	3.05	2.90	95	2.87	94			
217.93	220.98	3.05	2.86	94	2.80	92			
220.98	224.03	3.05	2.93	96	2.79	91			
224.03	227.08	3.05	2.74	90	2.21	72			
227.08	230.12	3.04	2.76	91	1.99	65			
230.12	233.17	3.05	2.91	95	2.91	95			
233.17	236.22	3.05	3.01	99	2.99	98			
236.22	239.27	3.05	2.95	97	2.77	91			
239.27	242.32	3.05	2.93	96	2.40	79			
242.32	245.36	3.04	2.97	98	2.69	88			
245.36	248.41	3.05	2.69	88	2.60	85			
	248.41	E.O.H.							

SAMPLE LOG

HOLE: Rau-08-07

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
22.20	23.86	1.66	H246663	0.01	0.10	16	0.14	
23.86	25.86	2.00	H246664	0.01	0.07	5	0.09	
25.86	27.64	1.78	H246665	0.01	0.03	3	0.21	
27.64	30.64	3.00	H246666	0.01	0.01	1	0.01	
30.64	33.64	3.00	H246667	0.01	0.03	2	0.04	
33.64	35.44	1.80	H246668	0.01	0.01	0	0.06	
35.44	38.08	2.64	H246669	0.01	0.06	25	2.12	
38.08	40.08	2.00	H246670	0.01	0.05	21	1.63	
40.08	42.05	1.97	H246671	0.01	0.02	14	1.55	
130.52	133.52	3.00	H246250	0.01	0.05	6	1.62	
133.52	136.52	3.00	H246252	0.05	0.08	15	2.52	
136.52	139.52	3.00	H246253	1.00	0.23	84	131.00	
139.52	142.52	3.00	H246254	1.09	0.14	51	114.50	
142.52	145.52	3.00	H246255	0.02	0.11	45	0.69	
145.52	148.52	3.00	H246256	0.01	0.09	5	0.29	
148.52	151.52	3.00	H246257	0.01	0.03	0	0.07	
151.52	154.52	3.00	H246259	0.01	0.11	2	0.08	
154.52	157.52	3.00	H246260	0.01	0.01	4	0.11	
157.52	160.52	3.00	H246001	0.01	0.15	13	0.11	
160.52	163.52	3.00	H246002	0.01	0.34	7	0.21	
163.52	166.52	3.00	H246003	0.01	0.29	14	0.11	
166.52	169.52	3.00	H246004	0.01	0.20	37	1.20	
169.52	172.87	3.35	H246005	0.03	0.20	210	27.50	
172.87	174.87	2.00	H246006	2.72	0.35	71400	165.00	
174.87	176.87	2.00	H246007	4.70	0.31	106500	194.50	
176.87	178.87	2.00	H246008	8.32	0.31	102500	179.50	
178.87	180.87	2.00	H246009	5.69	0.39	108000	276.00	
180.87	183.87	3.00	H246011	2.14	0.20	851	116.00	
183.87	186.87	3.00	H246012	7.84	0.15	2580	127.00	
186.87	189.87	3.00	H246013	0.07	0.13	300	13.45	
189.87	192.87	3.00	H246014	0.13	0.08	390	62.00	
192.87	195.87	3.00	H246015	0.05	0.07	360	74.30	
195.87	198.87	3.00	H246017	0.16	0.10	581	441.00	
198.87	201.87	3.00	H246018	0.33	0.04	780	499.00	
201.87	204.87	3.00	H246019	0.64	0.06	849	131.50	
204.87	207.87	3.00	H246020	0.33	0.06	830	262.00	
207.87	210.87	3.00	H246021	0.07	0.07	1115	187.00	
210.87	212.87	2.00	H246022	0.56	0.25	3530	907.00	
212.87	214.87	2.00	H246023	0.23	0.15	1950	362.00	
214.87	216.87	2.00	H246024	0.18	0.39	1480	582.00	
216.87	218.87	2.00	H246025	0.25	0.07	850	75.10	
218.87	220.87	2.00	H246026	0.13	0.08	647	113.50	
220.87	222.87	2.00	H246027	0.22	0.07	672	55.70	
222.87	224.87	2.00	H246028	0.12	0.12	1510	361.00	
224.87	226.87	2.00	H246030	0.27	0.10	1075	307.00	
226.87	228.87	2.00	H246031	2.67	0.09	40700	301.00	
228.87	231.87	3.00	H246032	0.23	0.37	2370	378.00	
231.87	234.87	3.00	H246033	0.15	1.30	1055	389.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
234.87	237.87	3.00	H246034	3.40	3.20	52000	249.00	
237.87	240.87	3.00	H246035	0.38	0.28	817	21.90	
240.87	243.87	3.00	H246037	0.06	0.05	12	0.72	
243.87	246.87	3.00	H246038	0.01	0.01	26	0.54	
-	-	-	H246672	<0.01	0.01	<5	0.04	Blank
-	-	-	H246251	13.70	9.11	494	0.07	Standard
-	-	-	H246258	<0.01	0.02	<5	0.10	Blank
-	-	-	H246010	0.14	<0.01	3010	7.34	Blank
-	-	-	H246016	9.74	7.09	481	0.09	Standard
-	-	-	H246029	12.95	9.20	450	0.69	Standard
-	-	-	H246036	0.02	0.04	275	3.19	Blank

RAU PROJECT

ZONE: Tiger
SECTION: 10+000 NW

HOLE: Rau-08-08
CLAIM: Rau-98F

Easting	Northing	Elev.	Depth (m)
528628	7119153	1339	274.32

Contractor: Superior Diamond Drilling Inc.
Drill: Hyrdro Core Type 1200

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230	76	compass				
274.32	230	76	acid test				

Core size: BTW
Casing depth: 3.04 (m) out

Drilling dates: July 20th - 23rd, 2008

Logged by: A. R. Kjos

Target: Mineralized Zone, Au Play, Anticlinal Trap in assymetrically folded limestone (Bouvette fm.)

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.26	3.26	OVB	
3.26	23.98	20.72	LST	Fossiliferous
23.98	43.80	19.82	VOL	
43.80	167.69	123.89	LST	
167.69	171.25	3.56	DOL	Mineralized
171.25	195.32	24.07	VOL	Altered
195.32	248.56	53.24	DOL	Mineralized
248.56	274.32	25.76	LST	

SAMPLES	
Numbers:	H246039-H246087
	H246673-H246682
Total:	59
Date sent:	
Certificate:	

COMMENTS
calcite amygduols are foliated, implying some replacement was synonymous or prior to structural deformation

GEOLOGY LOG

HOLE: RAU-08-08

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.26	3.26	OVB	RBL																		Rubbly Limestone overburden.
3.26	23.98	20.72	LST	FOS	MO	BD	35								t							Medium grey, fossiliferous LST with Ca veinlets. Mottled camo spotted light and dark grey LST texture. Very calcareous. Fluid crackling/breccias with angular LST clasts, calcite matrix. Trace disseminated Py. Some Ca veins are coarse grained. Fewer fossils towards the end of the interval. Weak banding occurs at 35 deg to CA. Thin Ca veinlets cut at 40 deg to CA and 180 deg to banding.
						VN	40	180														
																						23.56-23.98 m: Medium grey LST with gritty, rounded dolomite crystals. Very fine grained, disseminated Py occurs within. Massive, no bedding.
23.98	43.80	19.82	VOL	MX	FO	FO	45			f					w							Dark grey-black volcaniclastic with Ca amygdules from 24.75m onward. Amygdules are frequently replaced by Py, often Py is rimming Ca in vesicles. Py also occurs as blebs, patches, thin veinlets and smears. Zones of sericite alteration occur within. Some of the fractured surfaces have a weak orange alteration stain on them. Amygdules decrease in concentration at 36.23 m. Lower contact with limestone is gradational, Py increases toward contact. Py occurs as amygdule replacement and along foliation.
						VN	70															
43.80	167.69	123.89	LST		BN	BD	60								w							Medium grey banded limestone with occasional zones of angular, matrix supported brecciation. Occasional silty interbeds and frequent Ca veinlets occur throughout causing crackling in some areas. Weak pyrite is disseminated throughout.
					BX	VN	55	180														53.03-53.59 m: very calcareous sandy horizon.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
									w													55.80-58.36 m: Limestone breccia with small, rounded clasts. Weak dolomitization of the limestone occurs in areas. Fine grained disseminated pyrite occurs throughout. In places these are partly weathered out leaving a slightly vuggy texture.
															w			Bi	t			58.36-72.88 m: Mottled light and medium grey with Ca veins that contain pyrite and rare bismuthanite. Occasional 5-10 cm wide coarser grained sandy horizons containing an increased concentration of pyrite. One Ca vein contains very coarse grained (up to 2 cm) pyrite crystals.
																						72.88-104.16 m: Brecciated zone with 2-5 cm long angular clasts and a Ca matrix and mainly matrix dominated. Overall 60% brecciated.
						VN	55															104.16-118.70 : Decrease in the amount of brecciation, now 30%. The clasts in the breccia are sub-rounded. Later Ca veins cut the breccia. Occasional 10-50 cm rubbly zones occur and are slightly weathered.
						BD	70															118.70-167.69 m: Further decrease in brecciation. Breccias now constitute 5-10%. Non-brecciated limestone has a mottled texture. Breccias are more clast-supported, and the clasts are more angular. Banding is fainter, dark bands are less calcareous than light bands
						VN	55															
						VN	10	320														147.52 m: several pale yellow coarse grained dolomite veins, 2-5 cm wide cut the limestone.
167.69	171.25	3.56	DOL	MX	BN	BD	65								w							Light green-grey medium grained dolomite with finely disseminated Py occasionally concentrated along thin bands. Banding occurs at 65 deg to CA. Rare 10-20 cm intervals of moderately strong Py occur.
															s							170.38-171.25 m: Coarse grained quartz-calcite vein with fine to medium grained, euhedral pyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
171.25	195.32	24.07	VOL	ALT	FO	FO	40			I					w							Pale green-purple-grey sericite altered volcaniclastic with a strong foliation running at 40 deg to CA. Py occurs as patches replacing Ca along the foliation. Occasional 2-5 cm zones with dark green felted masses that resemble actinolite.
																						186.62-192.81 m: Dark brown-grey, mildly sericite altered volcaniclastic. Foliation is not as strong as the rest of the interval. Occasional Qz-Ca veinlets occur both along and cross-cutting the foliation.
																		Mag	w			188.49 m: 1 cm wide Qz-Ca vein with coarse grained magnetite.
						FO	45								f		w					192.81-195.32 m: Intensely sericite altered, crumbly with a strong foliation occurring at 45 deg to CA. Coarse grained Py and Po occur throughout in 2-5 cm wide patches. This interval also contains three 5-10 cm wide, low angle Qz-Ca vein.
195.32	248.56	53.24	DOL	MX	BN	BD	70				I				m	m	w					Coarse grained, dolomite with medium to coarse grained Py, As in patches and 0.1-1 cm wide bands forming distinct bands. Occasional dark grey silty horizons 0.5-1.5 cm wide occur within the dolomite. These horizons are barren and increase slightly in concentration with depth. Talc and gypsum occur throughout
																						196.94 m: drastic decrease in As concentration
																						215.96-219.00 m, 219.50-220.98m, 221.80-223.76m: Ca veinlets occur within these zones.
248.56	274.32	25.76	LST		MA	VN	70		f						w	t	t					Medium to dark grey LST, slightly dolomitized with frequent Ca stringers. Stringers have a wide range of orientations. Occasionally there are zones of coarse grained dolomite within the limestone. Sulphides are medium grained, and occur mainly in patches associated with coarse DOL. These veins occasionally cause crackle texture. There are approximately 2-3 different veining events.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	30								I	t						262.28-262.98 m: zone of intense mineralization bounding a Ca vein.
																						262.98-277.32 m: Mineralization no longer occurs within the limestone.
																						274.32 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-08

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.96	3.96	1.20	30	0.00	0			
3.96	6.10	2.14	1.51	71	1.27	59			
6.10	8.23	2.13	1.89	89	1.68	79			
8.23	10.67	2.44	2.15	88	1.72	70			
10.67	13.72	3.05	2.82	92	2.36	77			
13.72	16.76	3.04	2.64	87	2.00	66			
16.76	19.81	3.05	2.61	86	1.83	60			
19.81	22.86	3.05	2.98	98	2.87	94			
22.86	25.91	3.05	2.68	88	2.24	73			
25.91	28.96	3.05	2.91	95	2.63	86			
28.96	29.57	0.61	0.61	100	0.00	0			
29.57	32.00	2.43	2.03	84	1.76	72			
32.00	33.22	1.22	1.21	99	0.44	36			
33.22	35.05	1.83	1.46	80	1.22	67			
35.05	38.10	3.05	2.81	92	2.48	81			
38.10	41.15	3.05	2.89	95	2.57	84			
41.15	44.20	3.05	2.94	96	2.62	86			
44.20	47.24	3.04	2.89	95	2.45	81			
47.24	50.29	3.05	2.76	90	2.40	79			
50.29	53.34	3.05	2.96	97	2.10	69			
53.34	56.39	3.05	2.81	92	2.60	85			
56.39	59.44	3.05	2.84	93	2.51	82			
59.44	62.48	3.04	3.05	100	2.75	90			
62.48	65.53	3.05	2.69	88	2.09	69			
65.53	68.58	3.05	2.93	96	2.87	94			
68.58	71.63	3.05	3.01	99	2.74	90			
71.63	74.68	3.05	2.77	91	2.34	77			
74.68	77.72	3.04	2.68	88	1.77	58			
77.72	80.77	3.05	2.61	86	2.26	74			
80.77	83.82	3.05	2.68	88	2.25	74			
83.82	86.87	3.05	2.81	92	2.32	76			
86.87	89.92	3.05	2.87	94	2.58	85			
89.92	91.44	1.52	1.32	87	0.75	49			
91.44	94.49	3.05	2.75	90	1.73	57			
94.49	97.54	3.05	2.63	86	1.89	62			
97.54	100.58	3.04	2.84	93	2.01	66			
100.58	103.63	3.05	2.81	92	2.21	72			
103.63	105.16	1.53	1.48	97	0.50	33			
105.16	108.20	3.04	2.65	87	1.22	40			
108.20	111.25	3.05	2.26	74	1.30	43			
111.25	114.30	3.05	2.66	87	0.75	25			
114.30	117.35	3.05	2.51	82	1.87	61			
117.35	120.40	3.05	2.28	75	1.11	36			
120.40	123.44	3.04	2.21	73	1.27	42			
123.44	126.19	2.75	2.75	100	2.45	89			
126.19	128.02	1.83	1.76	96	0.97	53			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
128.02	131.06	3.04	2.51	83	0.90	30			
131.06	134.11	3.05	2.87	94	2.77	91			
134.11	136.86	2.75	2.75	100	2.64	96			
136.86	138.68	1.82	1.33	73	0.98	54			
138.68	141.43	2.75	2.36	86	1.92	70			
141.43	144.48	3.05	2.71	89	2.41	79			
144.48	147.52	3.04	2.39	79	0.94	31			
147.52	150.57	3.05	2.21	72	1.42	47			
150.57	152.10	1.53	0.92	60	0.51	33			
152.10	155.14	3.04	2.40	79	1.70	56			
155.14	158.19	3.05	2.89	95	2.82	92			
158.19	161.24	3.05	2.52	83	2.22	73			
161.24	164.29	3.05	2.70	89	2.33	76			
164.29	167.34	3.05	2.71	89	2.56	84			
167.34	170.38	3.04	2.90	95	2.79	92			
170.38	173.43	3.05	2.66	87	1.83	60			
173.43	176.48	3.05	2.71	89	1.97	65			
176.48	179.53	3.05	2.85	93	2.51	82			
179.53	182.88	3.35	2.70	81	1.94	58			
182.88	185.93	3.05	2.57	84	2.08	68			
185.93	188.98	3.05	2.52	83	1.81	59			
188.98	192.02	3.04	2.79	92	2.48	82			
192.02	193.55	1.53	1.40	92	1.00	65			
193.55	196.60	3.05	2.68	88	1.87	61			
196.60	199.64	3.04	2.66	88	2.15	71			
199.64	202.69	3.05	2.90	95	2.78	91			
202.69	205.74	3.05	2.77	91	2.65	87			
205.74	208.79	3.05	2.85	93	2.72	89			
208.79	211.84	3.05	2.85	93	2.73	90			
211.84	214.88	3.04	2.81	92	2.70	89			
214.88	217.93	3.05	2.79	91	2.67	88			
217.93	220.98	3.05	2.91	95	2.74	90			
220.98	224.03	3.05	2.84	93	2.66	87			
224.03	227.08	3.05	2.81	92	2.64	87			
227.08	230.12	3.04	2.70	89	1.94	64			
230.12	233.17	3.05	2.81	92	2.81	92			
233.17	236.22	3.05	2.90	95	2.79	91			
236.22	239.27	3.05	2.74	90	2.63	86			
239.27	242.32	3.05	2.97	97	2.89	95			
242.32	245.36	3.04	2.99	98	2.90	95			
245.36	248.41	3.05	2.92	96	2.92	96			
248.41	251.46	3.05	2.73	90	2.51	82			
251.46	254.51	3.05	2.90	95	2.90	95			
254.51	257.56	3.05	2.57	84	2.37	78			
257.56	260.60	3.04	2.27	75	2.07	68			
260.60	263.65	3.05	2.81	92	2.81	92			
263.65	266.70	3.05	2.36	77	2.33	76			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
266.70	269.75	3.05	2.76	90	2.76	90			
269.75	271.27	1.52	1.52	100	1.95	128			
271.27	274.32	3.05	2.87	94	2.66	87			
	274.32	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-08

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
23.62	26.17	2.55	H246673	0.01	0.14	20	1.59	
26.17	28.17	2.00	H246674	0.01	0.07	10	0.43	
28.17	31.17	3.00	H246675	0.01	0.01	12	0.11	
31.17	34.17	3.00	H246676	0.01	0.03	16	0.03	
34.17	36.17	2.00	H246678	0.01	0.07	163	1.36	
36.17	38.20	2.03	H246679	0.01	0.01	38	0.05	
38.20	40.20	2.00	H246680	0.01	0.05	96	4.21	
40.20	43.20	3.00	H246681	0.01	0.07	15	1.80	
43.20	45.20	2.00	H246682	0.01	0.05	8	0.03	
159.94	162.94	3.00	H246039	0.06	0.09	22	4.76	
162.94	165.94	3.00	H246040	0.03	0.12	11	6.57	
165.94	168.94	3.00	H246041	0.45	0.79	176	85.70	
168.94	171.94	3.00	H246042	1.09	0.11	250	37.10	
171.94	174.94	3.00	H246043	0.04	0.11	52	4.68	
174.94	177.94	3.00	H246044	0.01	0.04	6	0.29	
177.94	180.94	3.00	H246045	0.01	0.11	3	0.25	
180.94	183.94	3.00	H246047	0.01	0.30	6	0.33	
183.94	186.94	3.00	H246048	0.01	0.32	3	0.52	
186.94	189.94	3.00	H246049	0.01	0.23	2	0.31	
189.94	192.94	3.00	H246050	0.01	0.23	21	1.82	
192.94	194.94	2.00	H246051	0.15	0.34	509	33.00	
194.94	196.94	2.00	H246052	1.60	0.22	10005	86.60	
196.94	198.94	2.00	H246053	1.12	0.15	5610	40.50	
198.94	200.94	2.00	H246054	0.02	0.01	50	2.04	
200.94	202.94	2.00	H246055	0.36	0.01	2060	15.15	
202.94	205.94	3.00	H246057	0.28	0.06	7580	104.00	
205.94	208.94	3.00	H246058	0.24	0.06	5610	27.20	
208.94	211.94	3.00	H246059	0.07	0.07	674	26.50	
211.94	214.94	3.00	H246060	0.13	0.06	689	33.10	
214.94	217.94	3.00	H246061	0.06	0.01	256	12.30	
217.94	220.94	3.00	H246062	0.07	0.03	477	23.40	
220.94	223.94	3.00	H246063	0.05	0.05	582	17.20	
223.94	226.94	3.00	H246064	0.07	0.07	652	32.50	
226.94	229.94	3.00	H246065	0.09	0.12	608	42.00	
229.94	232.94	3.00	H246067	0.06	0.07	565	22.00	
232.94	235.94	3.00	H246068	0.01	0.10	325	15.85	
235.94	238.94	3.00	H246070	0.01	0.07	284	13.60	
238.94	241.94	3.00	H246071	0.02	0.11	237	25.00	
241.94	244.94	3.00	H246072	0.02	0.11	223	30.10	
244.94	246.94	2.00	H246073	0.25	0.13	531	121.00	
246.94	248.94	2.00	H246075	0.06	0.17	629	87.60	
248.94	250.94	2.00	H246076	0.03	0.05	172	9.77	
250.94	252.94	2.00	H246077	0.02	0.05	318	26.60	
252.94	254.94	2.00	H246078	0.01	0.01	8	1.88	
254.94	256.94	2.00	H246079	0.01	0.06	192	24.40	
256.94	258.94	2.00	H246080	0.02	0.10	161	13.05	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
258.94	260.94	2.00	H246081	0.01	0.05	103	3.60	
260.94	263.10	2.16	H246082	0.05	0.20	214	1055.00	
263.10	266.10	3.00	H246084	0.02	0.07	35	69.50	
266.10	269.10	3.00	H246085	0.02	0.12	25	4.68	
269.10	272.10	3.00	H246086	0.02	0.07	64	7.99	
272.10	274.32	2.22	H246087	0.02	0.05	40	3.56	
-	-	-	H246677	<0.01	<0.01	<5	0.01	Blank
-	-	-	H246046	14.20	17.20	882	0.06	Standard
-	-	-	H246056	<0.01	<0.01	13	0.08	Blank
-	-	-	H246066	14.90	8.07	467	0.05	Standard
-	-	-	H246069	<0.01	<0.01	9	4.09	Blank
-	-	-	H246074	14.45	8.66	469	0.14	Standard
-	-	-	H246083	<0.01	0.01	6	2.11	Blank

RAU PROJECT

ZONE: Tiger
SECTION: 9+850 NW

HOLE: Rau-08-09
CLAIM: Rau-97F

Easting	Northing	Elev.	Depth (m)
528634	7118974	1313	204.22

Contractor: Superior Diamond Drilling Inc.
Drill: Hyrdro Core Type 1200

Core size: BTW
Casing depth: (m) in/out

Drilling dates: July 29th - 30th, 2008

Logged by: A. R. Kjos

Target: _____

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60	compass				
200	230°	-59°	acid				

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	51.60	51.60	LST	Altered
51.60	53.81	2.21	DOL	Altered
53.81	92.00	38.19	LST	Altered
92.00	100.75	8.75	LST	
100.75	105.89	5.14	VOL	
105.89	129.98	24.09	DOL	
129.98	163.98	34.00	DOL	FeCa altered with ALT VOL and OX.
163.98	184.40	20.42	DOL	
184.40	190.50	6.10	MBL	

SAMPLES

Numbers: H246118-H246148

Total: 31
Date sent:
Certificate:

COMMENTS

Encountered large voids (greater then 20 feet), while drilling hole, cord to 670', rods serpeated due to bad "faulted" ground. Acid test was conducted instead of IceField probe due to lack of hole stability and rod seperation.

GEOLOGY LOG

HOLE: RAU-08-09

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	51.60	51.60	LST	ALT	BX				w						t							Weakly dolomitized weakly to moderately fluid collapse brecciated with zones of non- brecciated banded and stylolitic with an orientation of 60 deg to CA. The very top of the unit is quite rubbly unit 15.50 m with moderate orange brown alteration of the carbonate (could be oxidizing since drilling - check with matt and check photo's of the core). Trace pyrite occurs in thin stringers and fine dissemination.
					BN	BD	60															25.91-29.15 m: Strongly stylolitic zone with orientation of 60 deg to CA.
																						34.50-35.30 m: Dark orange brown slightly rubbly siderite alteration of the carbonate.
51.60	53.81	2.21	DOL	ALT																		Strongly altered dolomite zone with strong siderite alteration of the Ca veins that cut the dolomite. The dolomite is reddish pink in colour with very dark brown, black siderite. The dolomite is coarse grained with weak sub-euhedral pyrite.
53.81	92.00	38.19	LST	ALT	BX	VN	60		w						t							Slightly pinkish dolomite veins 1-3 cm thick cut the fluid collapse brecciated weakly dolomitized limestone at 60 deg to CA. Fractured surfaces have orangey-brown rusty coatings on them.
																						67.73-68.58 m: Camo mottled limestone with light-medium and medium gray mottled patches.
																						86.63-87.45 m: Rubbly pinkish reddish brown alteration stain on the limestone (hematite?)
92.00	100.75	8.75	LST																			Moderately altered, strongly fractured limestone medium grey limestone with medium grained pink dolomite bands and minor graphitic laminations.
																						92.85-93.30 m: Extremely rubbly quartz (vein??)
																						93.30-96.01 m: Extremely rubbly limestone with minor fragments of dark brown siderite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						96.01-99.90 m: Moderately dolomitized medium to dark grey limestone with irregular Ca veins that cut the interval.
															w							99.90-100.75 m: White to cream, medium grained dolomite with weak medium to coarse grained Py (sub to euhedral) with moderate quartz throughout.
100.75	105.89	5.14	VOL		FO	FO	40															Strongly sericite altered greenish grey volcaniclastic. It is quite rubbly for the top 4 m with fair quartz rubble.
																						103.40 m: The unit becomes very fissile dominated by laminations of greenish grey siderite.
105.89	129.98	24.09	DOL		BN	BD	60															Coarse grained creamy white mineralized dolomite. Pyrrhotite is the dominant sulphide in the sequence with Py most concentrated within the top 1.5 m of the interval. The pyrrhotite occurs in bands running at 60 deg to CA.
																						105.89-107.00 m: The upper 1.5 m is dominated by semi-massive pyrite (40%).
																						107.00-110.40 m: Talc/muscovite rich dolomite with 15% Po, 5% Py and very rubbly overall.
															20							110.40-112.42 m: Semi-massive pyrrhotite zones within the dolomite.
															f		t					112.42-116.26 m: Fairly mineralized dolomite with patches and bands of Po and trace Py.
															w		m					116.26-129.85 m: Py and Po occurs disseminated and banded within the dolomite.
129.98	163.98	34.00	DOL	ALT																		Very rubbly med-dark brown strongly carbonate altered mineralized dolomite. The recovery is very poor in this zone.
			VOL	ALT																		143.26-160.02 m: Very fissile strongly sericite and carbonate altered medium green-grey volcaniclastic with a reddish brown overprint. The true thickness is probably much less than this but the recovery was extremely poor due to the extent of alteration of this and the below material.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
			OX																			160.02-160.60 m: Dark brown oxide clay with minor small gritty oxidized fragments. The interval is most likely much larger than this but was NOT recovered. (COLOUR 5YR 3/2 - dark reddish brown)
163.98	184.40	20.42	DOL										SID	f								Coarse grained dolomite with trace Py and Po and abundant siderite on fractures and in an intense stronger network running roughly parallel to the CA from 171.00-184.40 m. Minor limonite rubble occurs.
184.40	190.50	6.10	MBL																			Dirty marble with black (argillaceous?) non-magnetic bands running at 75 deg to CA.
																						190.05m: The drillers reported a cavern but it was more likely just a mistake with oxide that fell into the bottom of the hole.
																						190.50 m: E.O.H. There was a 'cavern' which contained oxide at the bottom. This material however may have just fallen into the hole from above.

GEOTECHNICAL LOG

HOLE: RAU-08-09

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	4.57	4.57	0.35	8	0.00	0			
4.57	7.62	3.05	0.32	10	0.00	0			
7.62	10.67	3.05	0.97	32	0.00	0			
10.67	13.72	3.05	0.45	15	0.00	0			
13.72	15.24	1.52	1.52	100	0.14	9			
15.24	18.29	3.05	0.94	31	0.38	12			
18.29	21.34	3.05	2.63	86	1.10	36			
21.34	23.77	2.43	1.74	72	1.11	46			
23.77	25.91	2.14	1.88	88	1.44	67			
25.91	28.96	3.05	2.71	89	2.39	78			
28.96	32.00	3.04	2.74	90	2.22	73			
32.00	35.05	3.05	2.92	96	2.37	78			
35.05	38.10	3.05	2.52	83	1.22	40			
38.10	40.23	2.13	1.93	91	2.22	104			
40.23	42.67	2.44	2.26	93	1.76	72			
42.67	45.72	3.05	2.18	71	0.18	6			
45.72	48.77	3.05	2.75	90	2.14	70			
48.77	51.82	3.05	2.75	90	1.95	64			
51.82	53.95	2.13	1.93	91	1.66	78			
53.95	56.39	2.44	1.90	78	1.48	61			
56.39	58.83	2.44	2.20	90	1.98	81			
58.83	60.96	2.13	2.02	95	1.81	85			
60.96	63.09	2.13	1.73	81	0.38	18			
63.09	65.53	2.44	2.08	85	1.42	58			
65.53	67.06	1.53	1.35	88	0.61	40			
67.06	68.58	1.52	1.03	68	0.60	39			
68.58	71.63	3.05	2.61	86	2.11	69			
71.63	72.54	0.91	0.91	100	0.79	87			
72.54	74.68	2.14	1.72	80	1.35	63			
74.68	76.20	1.52	1.52	100	0.23	15			
76.20	79.25	3.05	2.65	87	2.37	78			
79.25	81.38	2.13	1.98	93	1.34	63			
81.38	83.82	2.44	1.78	73	1.09	45			
83.82	86.87	3.05	0.80	26	0.50	16			
86.87	89.92	3.05	2.42	79	1.00	33			
89.92	92.96	3.04	2.30	76	1.05	35			
92.96	96.01	3.05	2.91	95	0.00	0			
96.01	99.06	3.05	2.12	70	1.00	33			
99.06	100.58	1.52	1.50	99	0.29	19			
100.58	102.11	1.53	1.50	98	0.00	0			
102.11	106.68	4.57	2.96	65	0.41	9			
106.68	109.73	3.05	2.24	73	0.14	5			
109.73	112.78	3.05	2.59	85	1.84	60			
112.78	115.82	3.04	2.40	79	1.07	35			
115.82	118.87	3.05	2.68	88	2.44	80			
118.87	121.93	3.06	2.44	80	1.12	37			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
121.93	124.97	3.04	3.02	99	2.83	93			
124.97	126.49	1.52	1.51	99	1.10	72			
126.49	129.54	3.05	2.30	75	2.07	68			
129.54	131.64	2.10	1.12	53	0.27	13			
131.64	132.59	0.95	0.84	88	0.70	74			
132.59	135.64	3.05	0.82	27	0.00	0			
135.64	138.68	3.04	1.22	40	0.00	0			
138.68	140.21	1.53	0.37	24	0.00	0			
140.21	143.26	3.05	0.18	6	0.00	0			
143.26	146.30	3.04	0.23	8	0.00	0			
146.30	149.35	3.05	0.46	15	0.00	0			
149.35	153.92	4.57	0.00	0	0.00	0			
153.92	160.02	6.10	0.45	7	0.00	0			
160.02	164.59	4.57	1.10	24	0.61	13			
164.59	167.64	3.05	2.02	66	1.72	56			
167.64	170.69	3.05	0.25	8	0.13	4			
170.69	173.74	3.05	2.34	77	2.03	67			
173.74	184.40	10.66	0.27	3	0.10	1			
184.40	185.93	1.53	1.34	88	1.10	72			
185.93	188.98	3.05	2.83	93	2.75	90			
188.98	190.05	1.07	0.47	44	0.42	39			
190.05	204.22	14.17	0.34	2	0.00	0			
	204.22	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-09

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
93.90	96.90	3.00	H246118	0.09	4.67	132	238.00	
96.90	99.90	3.00	H246119	0.05	0.55	13	13.15	
99.90	102.90	3.00	H246120	0.01	0.32	74	313.00	
102.90	105.89	2.99	H246121	0.02	1.91	70	45.90	
105.89	107.89	2.00	H246122	0.33	10.65	2750	148.50	
107.89	109.89	2.00	H246123	0.03	1.92	78	587.00	
109.89	111.89	2.00	H246125	0.01	1.52	14	773.00	
111.89	113.89	2.00	H246126	0.16	0.64	20	372.00	
113.89	115.89	2.00	H246128	0.04	0.56	145	102.50	
115.89	117.89	2.00	H246129	0.01	0.80	8	180.50	
117.89	119.89	2.00	H246130	0.05	1.08	196	371.00	
119.89	121.89	2.00	H246131	0.08	1.17	41	562.00	
121.89	124.89	3.00	H246132	0.02	0.59	119	91.30	
124.89	127.89	3.00	H246133	0.02	0.43	108	107.50	
127.89	129.89	2.00	H246134	0.04	1.01	117	103.50	
129.89	132.59	2.70	H246135	0.05	1.02	1115	138.50	
132.59	135.64	3.05	H246136	0.09	0.59	1255	192.00	
135.64	138.68	3.04	H246137	0.01	1.11	229	261.00	
138.68	143.21	4.53	H246138	0.11	0.66	704	262.00	
143.21	149.35	6.14	H246139	0.11	1.12	647	188.50	
153.92	160.02	6.10	H246141	0.11	0.37	581	15.00	
160.02	164.59	4.57	H246142	0.06	1.08	1065	517.00	
164.59	167.64	3.05	H246143	0.01	0.21	126	44.30	
167.64	170.69	3.05	H246144	0.01	0.64	303	51.60	
170.69	173.71	3.02	H246146	0.01	3.02	305	192.00	
173.71	184.40	10.69	H246147	0.76	5.70	8240	1440.00	
184.40	187.40	3.00	H246148	0.01	0.03	51	3.72	
-	-	-	H246124	14.05	7.51	421	1.22	Standard
-	-	-	H246127	0.01	0.04	5	3.26	Blank
-	-	-	H246140	13.65	7.89	434	0.22	Standard
-	-	-	H246145	<0.01	0.02	13	0.63	Blank

RAU PROJECT

ZONE: Tiger
SECTION: 9+780 NW

HOLE: Rau-08-10
CLAIM: Rau-56

Easting	Northing	Elev.	Depth (m)
528680	7118915	1344	111.25

Contractor: Superior Diamond Drilling Inc.
Drill: Hyrdro Core Type 1200

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60	compass				

Core size: BTW
Casing depth: 3.04 (m) out

Drilling dates:

Logged by: A. R. Kjos

Target: strike extension of mineralized zone

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	111.25	111.25	LST	Dolomitized, and variably mineralized

SAMPLES

Numbers: H246149-H246177

Total: 29
Date sent:
Certificate:

COMMENTS

Hole did not extend far enough, only intersected the upper horizon

GEOLOGY LOG

HOLE: RAU-08-10

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	111.25	111.25	LST		BX	VN	40								w		t					Medium grey solution collapse brecciated dolomitized limestone. Overprinting the breccia is a fine crackle texture. There are also zones of camo-mottled light and medium grey limestone. This mottled texture has been later brecciated in zones. Pyrite occurs as fine to medium grained disseminated pyrite. Weak overall, but not particularly present until 26.20 m.
					CR																	0.00-5.80 m: The limestone has a bleached yellow-tan colouration.
																						30.70-38.00 m: Begin to get quartz dolomite veins that occur at 40 deg to CA. These veins are associated with an increase in Py mineralization, as well as cutting it.
																						38.00-41.65 m: The dolomitized limestone becomes bleached to light grey colour,
																						41.75-41.80 m: 4-5 cm medium grained pyrrhotite vein.
															f							48.00 m: Begin to get very fine grained powdery looking pyrite. Also more rare medium grained subhedral pyrite crystals.
															f		w					54.30-55.70 m: Quartz veins occur with weak to fair, medium grained, subhedral pyrite.
																						59.60-68.70 m: The dolomitized limestone has become bleached to a light grey colour. The concentration of pyrrhotite has increased to weak, while pyrite is still fair. Quartz veins cut at 25 deg to CA. They are on average 1-2 cm thick.
															w							68.70-73.60 m: Dolomitized limestone with rare quartz and weak disseminated pyrite.
															f							73.60-90.50 m: Quartz flood occurs in the limestone with a marked increase in disseminated pyrite. The limestone has a fairly bleached colour and contains fair mica/talc.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															t		t					90.50-111.25 m: Medium grey dolomitized limestone with strong mosaic brecciation and fine grained white dolomite matrix. The clasts are angular to subrounded with a slight preferred orientation of 40 deg to CA. Pyrite with pyrrhotite occurs trace throughout. Minor talc, seems to be associated with the irregular veining.
																						111.25 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-10

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.05	3.05	0.26	9	0.00	0			
3.05	4.57	1.52	0.30	20	0.00	0			
4.57	7.62	3.05	1.58	52	0.96	31			
7.62	9.14	1.52	1.24	82	0.65	43			
9.14	12.19	3.05	1.70	56	0.78	26			
12.19	15.24	3.05	2.45	80	1.22	40			
15.24	18.29	3.05	2.35	77	1.44	47			
18.29	21.34	3.05	0.87	29	0.22	7			
21.34	22.86	1.52	1.18	78	0.65	43			
22.86	25.91	3.05	2.51	82	0.68	22			
25.91	27.43	1.52	1.28	84	0.61	40			
27.43	30.48	3.05	2.14	70	1.08	35			
30.48	33.53	3.05	2.60	85	1.13	37			
33.53	36.57	3.04	2.65	87	2.34	77			
36.57	38.10	1.53	1.40	92	1.25	82			
38.10	41.15	3.05	2.68	88	2.11	69			
41.15	42.67	1.52	1.10	72	0.69	45			
42.67	44.81	2.14	2.14	100	1.82	85			
44.81	47.24	2.43	1.80	74	1.43	59			
47.24	50.29	3.05	2.45	80	2.11	69			
50.29	53.34	3.05	2.66	87	1.68	55			
53.34	56.39	3.05	2.57	84	1.50	49			
56.39	59.44	3.05	2.65	87	1.80	59			
59.44	62.48	3.04	2.85	94	2.23	73			
62.48	65.53	3.05	2.76	90	2.37	78			
65.53	68.58	3.05	2.89	95	2.68	88			
68.58	71.63	3.05	2.71	89	2.42	79			
71.63	74.68	3.05	2.80	92	2.41	79			
74.68	77.72	3.04	2.72	89	2.24	74			
77.72	80.77	3.05	2.66	87	2.08	68			
80.77	83.82	3.05	2.74	90	2.41	79			
83.82	86.87	3.05	2.85	93	2.66	87			
86.87	89.92	3.05	2.83	93	2.79	91			
89.92	92.96	3.04	2.87	94	2.60	86			
92.96	96.01	3.05	2.80	92	2.66	87			
96.01	99.06	3.05	2.91	95	2.82	92			
99.06	102.11	3.05	2.80	92	2.74	90			
102.11	105.16	3.05	3.05	100	2.96	97			
105.16	108.20	3.04	2.73	90	2.25	74			
108.20	109.73	1.53	1.36	89	1.21	79			
109.73	111.25	1.52	1.52	100	1.35	89			
	111.25	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-10

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
24.75	27.75	3.00	H246149	0.46	0.13	247	8.27	
27.75	30.75	3.00	H246150	0.21	0.71	31	462.00	
30.75	33.75	3.00	H246151	0.07	0.16	229	27.60	
33.75	36.75	3.00	H246152	0.06	0.26	117	55.60	
36.75	39.35	2.60	H246153	0.04	0.26	30	16.05	
39.35	39.90	0.55	H246154	0.09	69.30	210	1070.00	
39.90	42.90	3.00	H246156	0.03	1.49	68	50.80	
42.90	45.90	3.00	H246157	0.40	33.30	589	218.00	
45.90	48.90	3.00	H246158	0.82	16.95	786	380.00	
48.90	51.90	3.00	H246160	0.49	3.92	734	50.00	
51.90	53.90	2.00	H246161	0.23	62.80	3270	677.00	
53.90	55.90	2.00	H246162	0.11	64.50	6230	572.00	
55.90	58.90	3.00	H246163	0.01	0.93	94	227.00	
58.90	61.90	3.00	H246164	0.01	0.30	49	48.90	
61.90	64.90	3.00	H246165	0.13	0.36	805	187.50	
64.90	67.90	3.00	H246166	0.12	0.54	1090	499.00	
67.90	70.90	3.00	H246167	0.17	0.28	378	75.10	
70.90	73.90	3.00	H246168	0.16	1.05	307	47.40	
73.90	76.90	3.00	H246169	0.48	1.28	408	144.50	
76.90	79.90	3.00	H246171	0.01	6.66	353	179.00	
79.90	82.90	3.00	H246172	1.01	0.42	333	257.00	
82.90	85.90	3.00	H246173	0.04	0.25	146	12.80	
85.90	88.25	2.35	H246174	0.07	4.41	3960	195.00	
88.25	91.25	3.00	H246176	0.03	0.38	278	12.80	
91.25	94.25	3.00	H246177	0.02	0.19	42	6.71	
-	-	-	H246155	<0.01	0.07	<5	0.56	Blank
-	-	-	H246159	15.35	8.13	496	0.59	Standard
-	-	-	H246170	14.65	9.44	491	0.29	Standard
-	-	-	H246175	<0.01	0.02	6	0.41	Blank

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-10

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.57	LST	ALT	-0.13	
7.62	LST	ALT	-0.17	
9.14	LST	ALT	-0.19	
12.19	LST	ALT	-0.12	
15.24	LST	ALT	-0.12	
18.29	LST	ALT	-0.13	
21.34	LST	ALT	-0.07	
22.86	LST	ALT	-0.13	
25.91	LST	ALT	-0.09	
27.43	LST	ALT	-0.17	
30.48	LST	ALT	1.27	
33.53	LST	ALT	0.00	
36.57	LST	ALT	0.16	
38.10	LST	ALT	9.06	
41.15	LST	ALT	2.63	
42.67	LST	ALT	-0.19	
44.81	LST	ALT	-0.05	
47.24	LST	ALT	-0.13	
50.29	LST	ALT	-0.16	
53.34	LST	ALT	-0.09	
56.39	LST	ALT	1.39	
59.44	LST	ALT	8.55	
62.48	LST	ALT	7.62	
65.53	LST	ALT	7.08	
68.58	LST	ALT	1.01	
71.63	LST	ALT	0.93	
74.68	LST	ALT	7.44	
77.72	LST	ALT	3.22	
80.77	LST	ALT	3.83	
83.82	LST	ALT	0.09	
86.87	LST	ALT	2.12	
89.92	LST	ALT	0.19	
92.96	LST	ALT	-0.07	
96.01	LST	ALT	-0.47	
99.06	LST	ALT	-0.44	
102.11	LST	ALT	0.27	
105.16	LST	ALT	0.17	
108.20	LST	ALT	-0.02	
109.73	LST	ALT	0.06	

RAU PROJECT

ZONE: Tiger
SECTION: 9+935NW

HOLE: Rau-08-11
CLAIM: Rau-97F

Easting	Northing	Elev.	Depth (m)
528645	7119082	1324	278.89

Contractor: Superior Diamond Drilling Inc.
Drill: Hyrdro Core Type 1200

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60°	compass				
275.54	230°	-54°	icefield				

Core size: BTW
Casing depth: 4.57 (m) out

Drilling dates: August 1st - 4th, 2008

Logged by: Matt Dumalla & Adam R. Kjos

Target: Mineralized Zone, Au

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.05	3.05	OVB	
3.05	24.50	21.45	LST	
24.50	41.15	16.65	VOL	
41.15	127.09	85.94	LST	
127.09	130.15	3.06	VOL	Altered
130.15	135.80	5.65	LST	
135.80	163.97	28.17	VOL	
163.97	174.50	10.53	LST	
174.50	235.62	61.12	DOL	
235.62	235.97	0.35	VOL	
235.97	240.06	4.09	MBL	
240.06	278.89	38.83	LEP	Altered volcaniclastic

SAMPLES

Numbers: H246178-H246224
H246683-H246692
Total: 57
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: RAU-08-11

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.05	3.05	OVB																			
3.05	24.50	21.45	LST		BN	BD	55															Medium grey banded limestone. Banding occurs at 55 deg to CA.
						BD	55						MBL	w	f							19.50-24.50 m: Begin to get a zone of weak marbleization of the limestone. Within there is calcite flood in some areas. Fair pyrite is disseminates and is associated commonly with silty bands in the marbleized limestone. These bands occur at 55 deg to CA.
24.50	41.15	16.65	VOL		AM																	Dark brownish grey volcaniclastic with trace pyrite. The upper contact is gradational. At 27.10 m begin to get 3-5% 0.5-1.5 cm rounded amygdules filled with calcite. Trace to no pyrite occurs . There are zones of amygdules and more massive black volcaniclastic. The lower contact is also relatively gradational.
41.15	127.09	85.94	LST		BX				f						t							Medium grey solution collapse brecciated fairly dolomitized limestone with zones of bands and stylolites occurring at 65 deg to CA. Trace to weak pyrite.
																						41.15-67.20 m: The dolomitized limestone is generally banded at 65 deg to CA.
				ALT																		57.00-60.00 m: The unit becomes strongly fractured up with fair orange red alteration stain on fractures.
																						At 63.53 begin to get weak to fair concentration of scattered talc flakes throughout the unit.
																						65.00m begin to get fractures with a red/purple hematite (?) alteration stain on the fractures.
															t							67.37-86.34 m: Begin to get strongly solution collapse brecciated limestone. Trace fine grained disseminated pyrite.
																						86.34-101.50 m: The brecciation becomes much less intense, only weak overall.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
															t		t					101.50-105.00 m: Begin to get 10% yellowy fine grained dolomite layers/bands that run at 35 deg to CA. These bands contain coarse grained arsenopyrite and pyrite. Within this interval there is also minor quartz eyes.
						VN	50															105.00-127.09 m: medium to dark grey solution collapse brecciated limestone with zones of camo-mottled light and medium grey limestone. The breccia clasts are angular to sub-rounded. Minor creamy dolomite occurs in irregular fractures, and veins running at 50 deg to CA.
127.09	130.15	3.06	VOL	ALT	FO	FO	55			ms												Yellowish pinkish green sericite altered volcaniclastic with distinct foliation occurring at 55 deg to CA. The upper contact is very gradational until 128.20 m with interlayers 1-4 cm thick of volcaniclastic within the limestone. There is some evidence of soft sediment deformation of the limestone beds that occur within this zone.
130.15	135.80	5.65	LST	FOS	BN	BD	50															Medium to dark grey limestone with banding occurring at 70 deg to CA. Possible crinoid stem fragments occur with pyrite replacement. Overall pyrite is weakly disseminated throughout.
																						132.40 : Get a strange ripped looking texture between light-medium and dark grey limestone. The light/medium beds appear gritty. Thin irregular Ca stringers cut the unit.
																						133.96-135.80 m: Weakly calcareous bleached light grey limestone with stringer like irregular sericite bands that occur within. The sericite is yellowish green in colour. Banding occurs at 70 deg to CA. An overprinted crenulation texture occurs at 50 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
135.80	163.97	28.17	VOL	ALT	BN	BD	50		f						t							Dark brownish grey volcaniclastic with foliation running at 50 deg to CA. Irregular sericite layers and stringers occur throughout. Weakly to fairly calcareous. Pyrite occurs as trace disseminations. Later irregular Ca-stringers cut the unit. Some of the lighter medium grey layers have a gritty texture.
						BD	60		m						t							141.00 m: the foliation runs at 60 deg to CA and is more easily defined. The sericite alteration has also increased to fair-moderate and seems to be selective, leaving pods of unaltered material.
						BD	50		w													149.80 m: The sericite alteration decreases significantly and the VOL is more of a dark grey/black than brown colour. Bedding with calcareous interlayers occurs at 50 deg to CA.
						BD	60		w											Act	t	149.90-150.00 m: There is a zone containing calcareous bands containing medium bluish-green fibrous mineral - actinolite(?). The mineral is confined to bands that run at 60 deg to CA.
									m													153.80 m: There is again an increase in the sericite alteration to moderate as well as an increase in the calcareous content of the rock. By 154.50 m the unit has a dark brown colouration (biotite?). Pyrite has increased to fair, and occurs replacing the Ca in patches and bands.
						FO	50		ms						m					Fu	t	159.65 -162.91 m: The sericite alteration becomes quite strong as a yellow/tan/green colour. The unit appear highly strained at 50 deg to CA. Trace fuchsite occurs as emerald green specks within the strongly altered zones. Pyrite is now fairly to moderately concentrated in large heavily disseminated patches.
			FLT?																			162.91-163.30 m: The core becomes highly fractured up. Possible fault zone (?) Minor light grey clay coats the fragment and fractures.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
163.97	174.50	10.53	LST		BN	BD	55		w						f							Very dark grey to black weakly dolomitized limestone with large patches (up to 2 cm) of heavily disseminated fine grained pyrite up until 169.95 m. Clear banding occurs at 55 deg to CA.
									f						m							169.95-173.70 m: Begin to get an influx of very irregular coarse grained, cream and light grey dolomite veins. The pyrite concentration increases around these veins and becomes medium grained sub-hedral as dissemination and concentrated patches. Talc also occurs weak throughout and associated with the dolomite.
															t							173.70-174.50 m: Zone of thin deformed volcaniclastic bands. Pyrite is trace. No dolomite veins.
174.50	235.62	61.12	DOL		BN	BD	60								f	f	w	Sp	t			Medium to fine grained cream and light grey dolomite with mineralized bands occurring at 60 deg to CA. Pyrite is fine grained and fairly disseminated and concentrated in a banded texture. Pyrrhotite is weak in concentration and occurs as fine grained heavily disseminated patches that are often in a bended pattern. Coarse grained arsenopyrite occurs disseminated throughout, weak overall. The ASP concentration drops slightly in concentration becoming more widely scattered at 182.50 m. Trace quartz also occurs within this interval. Later dolomite veins cut the mineralization at 20 deg to CA. Trace medium to coarse grained red and black sphalerite occurs. Overall talc is trace. Pyrite and Arsenopyrite concentration drops off gradually at around 204 m.
						VN	20															220.60 m: The concentration of talc increases to fair. Pyrite becomes coarse grained to very coarse grained (up to 1 cm crystals) and cubic.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
																						225.20-235.62 m: Brecciation of dolomite occurs along with a strong appearance of hairline fractures. Brown-red material (hematite/siderite?) fills these areas. Pyrite concentration is gradually dropping off to fair.
235.62	235.97	0.35	VOL		FO	FO	60			m												Strongly foliated sericite altered volcanic. FO occurs at 60 deg to CA. Sharp upper and lower contacts occur at 60 deg to CA.
						CN	60															
235.97	240.06	4.09	MBL		BN	BD	80															White marble with impure silty horizons occurring at 80 deg to CA. Rare purple and orange zones occur within the marble (hematite?).
240.06	278.89	38.83	LEP		FO	FO	60			w												Dark brown/grey/black leopard spotted volcaniclastic with a weak foliation occurring at 60 deg to CA. The beginning of the unit has a faint patterned spotted texture and towards the bottom it becomes more pronounced. Weak sericite alteration occurs as wispy patches within. Weak magnetite is scattered throughout the volcaniclastic.
						FO	55			m												253.00 m: The concentration of sericite increases to moderate, and follows a foliation of 55 deg to CA.
																						278.89 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-11

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.04	3.04	0.02	1	0.00	0			
3.04	4.57	1.53	0.54	35	0.00	0			
4.57	6.10	1.53	1.11	73	0.80	52			
6.10	9.14	3.04	2.76	91	1.35	44			
9.14	12.19	3.05	2.57	84	1.76	58			
12.19	15.24	3.05	2.62	86	2.04	67			
15.24	18.29	3.05	2.40	79	1.70	56			
18.29	21.34	3.05	2.73	90	2.40	79			
21.34	24.38	3.04	2.47	81	1.70	56			
24.38	27.43	3.05	2.94	96	2.31	76			
27.43	30.48	3.05	2.88	94	2.40	79			
30.48	33.53	3.05	2.76	90	2.46	81			
33.53	35.05	1.52	1.44	95	1.35	89			
35.05	38.10	3.05	2.66	87	1.94	64			
38.10	41.15	3.05	2.98	98	2.63	86			
41.15	44.20	3.05	3.00	98	2.69	88			
44.20	47.24	3.04	3.00	99	2.00	66			
47.24	50.29	3.05	2.95	97	1.68	55			
50.29	53.34	3.05	2.99	98	2.66	87			
53.34	54.86	1.52	1.52	100	1.55	102			
54.86	57.91	3.05	2.65	87	1.82	60			
57.91	59.44	1.53	0.64	42	0.11	7			
59.44	60.96	1.52	0.79	52	0.00	0			
60.96	64.01	3.05	2.59	85	1.67	55			
64.01	67.06	3.05	2.08	68	0.23	8			
67.06	70.10	3.04	2.73	90	1.61	53			
70.10	73.15	3.05	3.05	100	2.85	93			
73.15	76.20	3.05	2.52	83	2.52	83			
76.20	77.72	1.52	1.52	100	2.00	132			
77.72	80.77	3.05	2.91	95	2.66	87			
80.77	83.21	2.44	2.34	96	1.33	55			
83.21	85.34	2.13	1.96	92	0.21	10			
85.34	88.39	3.05	2.99	98	2.36	77			
88.39	91.44	3.05	2.74	90	2.52	83			
91.44	92.96	1.52	1.50	99	1.28	84			
92.96	97.54	4.58	4.57	100	3.36	73			
97.54	100.58	3.04	3.01	99	3.00	99			
100.58	103.63	3.05	3.06	100	2.73	90			
103.63	106.68	3.05	2.88	94	2.14	70			
106.68	109.73	3.05	3.05	100	2.34	77			
109.73	114.30	4.57	1.33	29	0.56	12			
114.30	115.82	1.52	1.52	100	1.01	66			
115.82	118.87	3.05	2.59	85	1.85	61			
118.87	121.92	3.05	1.43	47	1.43	47			
121.92	123.44	1.52	1.52	100	2.18	143			
123.44	126.49	3.05	1.35	44	0.92	30			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
126.49	128.02	1.53	1.53	100	2.66	174			
128.02	131.06	3.04	2.57	85	1.81	60			
131.06	134.11	3.05	2.85	93	2.63	86			
134.11	137.16	3.05	2.83	93	2.52	83			
137.16	140.21	3.05	3.02	99	0.93	30			
140.21	141.73	1.52	1.52	100	2.61	172			
141.73	144.78	3.05	2.81	92	2.81	92			
144.78	147.83	3.05	3.05	100	2.70	89			
147.83	150.88	3.05	3.05	100	2.89	95			
150.88	153.92	3.04	3.05	100	2.71	89			
153.92	156.97	3.05	3.04	100	2.10	69			
156.97	160.02	3.05	3.03	99	1.82	60			
160.02	163.07	3.05	2.67	88	1.55	51			
163.07	166.12	3.05	3.05	100	3.03	99			
166.12	169.16	3.04	3.05	100	2.93	96			
169.16	172.21	3.05	2.97	97	2.25	74			
172.21	175.26	3.05	3.03	99	2.61	86			
175.26	178.31	3.05	3.05	100	2.82	92			
178.31	181.36	3.05	2.95	97	2.95	97			
181.36	184.40	3.04	2.49	82	2.20	72			
184.40	187.45	3.05	3.05	100	2.72	89			
187.45	190.89	3.44	2.08	60	2.08	60			
190.89	192.02	1.13	1.13	100	2.63	233			
192.02	195.07	3.05	2.79	91	2.79	91			
195.07	198.12	3.05	2.07	68	2.07	68			
198.12	199.64	1.52	1.52	100	2.63	173			
199.64	202.69	3.05	2.85	93	2.59	85			
202.69	205.74	3.05	3.05	100	2.96	97			
205.74	208.79	3.05	3.05	100	3.10	102			
208.79	211.84	3.05	3.06	100	3.06	100			
211.84	214.88	3.04	3.05	100	2.69	88			
214.88	217.93	3.05	3.05	100	2.85	93			
217.93	220.98	3.05	3.04	100	2.16	71			
220.98	224.03	3.05	3.03	99	1.75	57			
224.03	227.08	3.05	3.05	100	1.34	44			
227.08	230.12	3.04	2.98	98	2.86	94			
230.12	233.17	3.05	3.02	99	2.75	90			
233.17	236.22	3.05	3.05	100	3.05	100			
236.22	239.27	3.05	3.05	100	2.22	73			
239.27	242.32	3.05	2.92	96	2.86	94			
242.32	245.36	3.04	3.05	100	2.87	94			
245.36	248.41	3.05	2.85	93	2.80	92			
248.41	251.46	3.05	3.05	100	2.73	90			
251.46	254.51	3.05	3.05	100	2.88	94			
254.51	257.56	3.05	3.05	100	0.93	30			
257.56	259.08	1.52	1.52	100	2.63	173			
259.08	262.13	3.05	2.86	94	2.80	92			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
262.13	265.18	3.05	3.05	100	2.91	95			
265.18	268.22	3.04	3.04	100	1.51	50			
268.22	269.75	1.53	1.53	100	3.10	203			
269.75	272.80	3.05	2.97	97	2.84	93			
272.80	275.84	3.04	2.92	96	2.79	92			
275.84	278.89	3.05							missing interval in records
	278.89	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-11

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
19.67	22.72	3.05	H246683	8.13	0.53	5850	188.00	
22.72	25.41	2.69	H246684	0.10	0.04	52	6.05	
25.41	28.41	3.00	H246685	0.05	0.03	52	3.04	
28.41	30.72	2.31	H246686	0.01	0.01	3	0.10	
30.72	32.15	1.43	H246687	0.01	0.09	3	0.26	
32.15	35.15	3.00	H246689	0.01	0.04	10	0.48	
35.15	38.15	3.00	H246690	0.03	0.03	2	0.03	
38.15	41.15	3.00	H246691	0.01	0.04	12	0.99	
41.15	43.15	2.00	H246692	0.01	0.02	6	0.47	
121.17	124.17	3.00	H246178	0.09	0.23	16	2.31	
124.17	127.17	3.00	H246179	0.14	0.42	25	4.80	
127.17	130.17	3.00	H246180	1.01	0.38	2120	73.10	
130.17	133.17	3.00	H246181	0.05	0.16	34	2.28	
133.17	136.17	3.00	H246182	0.01	0.12	89	0.34	
136.17	138.82	2.65	H246183	0.01	0.22	21	0.10	
138.82	141.82	3.00	H246184	0.03	0.14	5	0.19	
141.82	144.82	3.00	H246185	0.01	0.08	7	0.07	
144.82	147.82	3.00	H246186	0.01	0.03	5	0.06	
147.82	150.82	3.00	H246187	0.01	0.04	3	0.03	
150.82	153.82	3.00	H246188	0.01	0.08	3	0.03	
153.82	156.82	3.00	H246189	0.01	0.05	14	0.92	
156.82	159.82	3.00	H246190	0.01	0.01	27	1.10	
159.82	162.41	2.59	H246191	0.02	0.01	33	1.31	
162.41	163.97	1.56	H246192	0.03	0.01	44	1.89	
163.97	165.91	1.94	H246193	0.18	0.05	96	13.65	
165.91	168.91	3.00	H246195	0.03	0.15	345	42.20	
168.91	171.91	3.00	H246196	0.58	0.50	974	145.50	
171.91	174.91	3.00	H246197	0.13	0.26	888	42.50	
174.91	177.91	3.00	H246199	0.71	0.15	1605	128.00	
177.91	180.39	2.48	H246200	2.71	0.11	10005	168.50	
180.39	182.30	1.91	H246201	1.39	0.20	10005	237.00	
182.30	185.27	2.97	H246202	1.55	0.16	10005	414.00	
185.27	188.27	3.00	H246203	0.69	0.10	10005	151.50	
188.27	191.27	3.00	H246204	0.36	0.07	9530	101.50	
191.27	194.27	3.00	H246205	0.39	0.08	10005	143.00	
194.27	197.27	3.00	H246206	0.22	0.07	3890	125.50	
197.27	200.27	3.00	H246207	0.47	0.09	10005	126.00	
200.27	203.27	3.00	H246208	0.10	0.08	1730	198.50	
203.27	206.27	3.00	H246209	0.08	0.09	939	186.50	
206.27	209.27	3.00	H246210	0.07	0.09	674	191.00	
209.27	212.27	3.00	H246211	0.14	0.09	657	218.00	
212.27	215.27	3.00	H246213	0.07	0.11	1205	133.00	
215.27	218.27	3.00	H246214	0.08	0.09	609	430.00	
218.27	221.27	3.00	H246215	0.06	0.15	629	1235.00	
221.27	224.27	3.00	H246216	0.09	0.20	856	867.00	
224.27	227.08	2.81	H246217	0.08	0.13	1985	162.50	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
227.08	229.92	2.84	H246218	0.13	0.11	1655	597.00	
229.92	232.65	2.73	H246219	0.11	0.77	2160	129.50	
232.65	235.65	3.00	H246220	1.62	0.20	10005	346.00	
235.65	237.65	2.00	H246221	0.02	0.05	60	2.95	
237.65	240.08	2.43	H246222	0.01	0.05	28	1.42	
240.08	242.32	2.24	H246224	0.01	0.36	7	1.63	
-	-	-	H246688	<0.01	0.01	<5	0.04	Blank
-	-	-	H246194	<0.01	0.01	14	0.05	Blank
-	-	-	H246198	13.40	7.63	412	0.60	Standard
-	-	-	H246212	<0.01	0.01	22	1.36	Blank
-	-	-	H246223	13.25	9.58	404	1.25	Standard

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-11

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
0.00	OVB		-0.02	
3.04	LST		0.18	
4.57	LST		-0.01	
6.10	LST		-0.04	
9.14	LST		0.00	
12.19	LST		-0.09	
15.24	LST		0.01	
18.29	LST		-0.02	
21.34	LST		0.08	
24.38	LST		45.80	
27.43	VOL		46.60	
30.48	VOL		46.60	
33.53	VOL		4.57	
35.05	VOL		2.26	
38.10	VOL		0.54	
41.15	VOL		-0.20	
44.20	LST		-0.19	
47.24	LST		0.04	
50.29	LST		0.12	
53.34	LST		-0.28	
54.86	LST		-0.27	
57.91	LST		-0.13	
59.44	LST		-0.12	
60.96	LST		-0.13	
64.01	LST		-0.12	
67.06	LST		-0.22	
70.10	LST		-0.09	
73.15	LST		-0.20	
76.20	LST		-0.19	
77.72	LST		-0.15	
80.77	LST		-0.17	
83.21	LST		-0.13	
85.34	LST		-0.19	
88.39	LST		-0.09	
91.44	LST		-0.12	
92.96	LST		-0.02	
97.54	LST		-0.13	
100.58	LST		0.01	
103.63	LST		0.08	
137.16	VOL	ALT	195.00	
140.21	VOL	ALT	143.00	
141.73	VOL	ALT	171.00	
144.78	VOL	ALT	41.50	
147.83	VOL	ALT	1.13	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
150.88	VOL	ALT	0.36	
153.92	VOL	ALT	-0.04	
156.97	VOL	ALT	0.57	
160.02	VOL	ALT	2.26	
163.07	VOL	ALT	1.38	
166.12	LST		2.56	
169.16	LST		19.60	
172.21	LST		2.84	
175.26	DOL		13.60	
178.31	DOL		10.80	
181.36	DOL		3.09	
184.40	DOL		1.75	
187.45	DOL		4.77	
190.89	DOL		1.79	
192.02	DOL		1.56	
195.07	DOL		1.44	
198.12	DOL		2.88	
199.64	DOL		1.25	
202.69	DOL		0.32	
205.74	DOL		0.25	
208.79	DOL		0.33	
211.84	DOL		0.20	
214.88	DOL		0.41	
217.93	DOL		0.40	
220.98	DOL		0.21	
224.03	DOL		0.24	
227.08	DOL		0.24	
230.12	DOL		0.18	
233.17	DOL		0.75	
236.22	MBL		161.00	
239.27	MBL		161.00	
242.32	LEP		0.42	
245.36	LEP		0.57	
248.41	LEP		0.81	
251.46	LEP		0.73	
254.51	LEP		0.22	
257.56	LEP		0.26	
259.08	LEP		0.38	
262.13	LEP		0.44	
265.18	LEP		0.69	
268.22	LEP		0.91	
269.75	LEP		0.27	
272.80	LEP		0.48	

RAU PROJECT

ZONE: Tiger
SECTION: 10+000 NW

HOLE: Rau-08-12
CLAIM: Rau-98F

Easting	Northing	Elev.	Depth (m)
528628	7119153	1339	274.32

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	050°	-84°	compass				
274.01	050°	-85°	icefield				

Core size: BTW
Casing depth: 3.04 (m) out

Drilling dates:

Logged by: M.R. Dumala

Target: downdip extension of mineralized horizon

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.90	2.90	OVB	
2.90	14.05	11.15	LST	Fossiliferous
14.05	35.41	21.36	LST	
35.41	36.78	1.37	LST	
36.78	37.42	0.64	MBL	
37.42	40.81	3.39	QZ	
40.81	46.88	6.07	LST	
46.88	48.03	1.15	VOL	
48.03	52.75	4.72	LST	
52.75	59.21	6.46	VOL	Altered
59.21	76.2	16.99	VOL	Altered
76.2	185.6	109.40	LST	
185.6	187.76	2.16	DOL	
187.76	199.55	11.79	LST	
199.55	217.67	18.12	VOL	
217.67	274.32	56.65	LST	

SAMPLES	
Numbers:	H246225-H246249
	H246693-H246709
Total:	42
Date sent:	
Certificate:	

COMMENTS

GEOLOGY LOG

HOLE: RAU-08-12

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.90	2.90	OVB	RBL	BN																	
2.90	14.05	11.15	LST	FOS	BN	BD	30								w							Light to medium grey fossiliferous limestone with crinoid and coral mound fragment. Limestone is finely laminated, but bedding is wavy, possible evidence of soft sediment slumping. Py rims crinoid stem fragments as well it is concentrated along banding. Frequent Ca veinlets occur throughout.
						VN	10	330														
																						9.56 m: Lighter colour limestone, wavier bedding.
14.05	35.41	21.36	LST		BN	BD	55								t					Sp	t	Medium grey banded and brecciated limestone. Ca veinlets causing brecciation and later yellow which to white Ca veinlets cut the breccia. Breccias are mainly clast-supported, with angular clasts. 30% Breccia. Brecciation gradually decreases with depth, begin to see occasional silty horizons.
					BX	VN	15															27.30 m: 2mm red sphalerite crystal in a Ca veinlet.
						VN	35															
						VN	80															
35.41	36.78	1.37	LST		BN	BD	20								t							Light and dark grey banded limestone. Banding now occurs at 20 deg to CA. Occasional fine grained Py blebs occurs along banding. The bottom 21 cm contains limonite boxwork texture.
36.78	37.42	0.64	MBL		BN	BD	10															Light grey to white banded marble.
37.42	40.81	3.39	QZ	MX	MA										50							Pyrite-Quartz-talc vein with coarse grained, euhedral pyrite. Talc is soft, pearly white. Vein is rubbly in places. A

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
40.81	46.88	6.07	LST		MA	VN	60								w							Medium grey, massive limestone with finely disseminated Py. Occasional orange brown alteration occurs along fractures and Ca veins. The veins run at 60 deg to CA.
															30							42.39-42.77 m: another Qz-talc vein with associated coarse grained Py. Occasional 10-20 cm wide Qz veins with rare Py crystals.
46.88	48.03	1.15	VOL	MX	MA						f				f							Dark green, fine grained volcaniclastic with finely disseminated Py. Mildly reactive with HCl. Bottom 30 cm of unit is massive Py.
48.03	52.75	4.72	LST		MA										t							Medium grey, massive limestone with trace finely disseminated Py. Occasional Ca stringers. Near lower contact LST develops wavy texture. Contact is difficult to define, mixed, partially brecciated.
52.75	59.21	6.46	VOL	ALT	FO	FO	10			s					f							Bleached and sericite altered volcaniclastic. Dark purple/brown, fine grained with thin sericite bands almost parallel to the core axis. Occasional bleached zones 1-2 m long. Occasional irregular coarse grained Ca veins.
59.21	76.20	16.99	VOL	ALT	FO	FO	10			I					f							Fine grained, dark green-grey with purple-brown sericite bands/stringers. Rare, <5mm calcite amygdules that are occasionally rimmed by Py. There are zones where the amygdules are more concentrated. Py mainly occurs as fine disseminations throughout. FO runs at 10 deg to CA. The lower contact is gradational.
76.20	185.60	109.40	LST		BX	BD	45			w					w							Medium to dark grey LST with 2.5 mm wide darker layers defining banding. Zones of the unit are brecciated. Medium grained blebs of Py are disseminated throughout. Occasional Ca veinlets cut the unit at 30-60 deg to CA.
						VN	30															79.25-98.05 m: The limestone is now 70% breccia. The clasts are angular to sub-rounded and in parts are both matrix and clast supported.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						98.05-185.60 m: The breccia is less intense, only accounting for 10% of the interval. There is also a weak crackle texture overprinting the unit.
						VN	60	180							m							124.70-124.87 m: Qz vein with very coarse grained Py.
																						141.12 m: 20 cm dark grey clay zone. Small fault??
185.60	187.76	2.16	DOL		MA										w			MAG	t			Creamy white, coarse grained dolomite. With minor disseminated Py and magnetite.
187.76	199.55	11.79	LST		BX	CN	10															Medium grey mosaic brecciated limestone with angular clasts. Contacts with surrounding units are sharp but irregular.
199.55	217.67	18.12	VOL		FO	FO	30								w							Grey brown weakly foliated biotite rich volcaniclastic with frequent Ca veinlets running at 60 deg to CA. Foliation occurs at 30 deg to CA. Weakly disseminated pyrite occurs scattered throughout. Lower contact is with marble.
						VN	60															
217.67	274.32	56.65	LST		BN	BD	30															20 cm of marble at volcanic contact. Below the marble there is medium grey weakly fluid collapse breccia limestone with irregular Ca veinlets running most commonly at 50 deg to CA. The limestone becomes more massive towards the bottom of the interval.
					BX																	
																						274.32 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-12

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	4.57	4.57	1.82	40	1.18	26			
4.57	7.62	3.05	2.93	96	2.55	84			
7.62	10.67	3.05	3.02	99	2.69	88			
10.67	12.19	1.52	1.51	99	1.51	99			
12.19	15.24	3.05	3.05	100	2.77	91			
15.24	18.29	3.05	2.96	97	2.66	87			
18.29	21.34	3.05	3.05	100	2.08	68			
21.34	24.38	3.04	3.05	100	2.86	94			
24.38	27.43	3.05	3.05	100	2.88	94			
27.43	30.48	3.05	3.02	99	2.26	74			
30.48	33.53	3.05	2.94	96	2.60	85			
33.53	36.58	3.05	3.05	100	2.63	86			
36.58	39.62	3.04	1.25	41	0.29	10			
39.62	42.67	3.05	2.82	92	2.08	68			
42.67	45.72	3.05	3.02	99	2.61	86			
45.72	48.77	3.05	3.05	100	2.69	88			
48.77	51.82	3.05	3.04	100	2.84	93			
51.82	54.86	3.04	3.05	100	2.71	89			
54.86	57.91	3.05	3.05	100	2.65	87			
57.91	60.96	3.05	3.05	100	2.95	97			
60.96	64.01	3.05	2.99	98	2.85	93			
64.01	67.06	3.05	2.97	97	2.49	82			
67.06	70.10	3.04	3.05	100	2.77	91			
70.10	73.15	3.05	3.05	100	3.05	100			
73.15	76.20	3.05	3.00	98	3.00	98			
76.20	79.25	3.05	3.03	99	2.86	94			
79.25	82.30	3.05	3.05	100	2.59	85			
82.30	88.39	6.09	2.96	49	2.28	37			
88.39	89.92	1.53	1.53	100	0.84	55			
89.92	92.96	3.04	2.74	90	1.33	44			
92.96	96.01	3.05	2.69	88	0.23	8			
96.01	97.54	1.53	1.53	100	1.00	65			
97.54	100.58	3.04	3.05	100	1.44	47			
100.58	103.63	3.05	2.97	97	1.72	56			
103.63	106.68	3.05	3.05	100	2.34	77			
106.68	109.73	3.05	3.05	100	2.29	75			
109.73	112.78	3.05	3.02	99	2.95	97			
112.78	115.82	3.04	2.95	97	1.59	52			
115.82	118.87	3.05	2.01	66	0.47	15			
118.87	121.92	3.05	2.97	97	2.17	71			
121.92	124.97	3.05	3.00	98	2.22	73			
124.97	128.02	3.05	3.00	98	2.07	68			
128.02	131.06	3.04	2.80	92	1.42	47			
131.06	131.98	0.92	1.30	141	0.64	70			
131.98	134.11	2.13	1.88	88	0.95	45			
134.11	136.25	2.14	2.59	121	1.83	86			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
136.25	138.68	2.43	1.98	81	0.98	40			
138.68	141.12	2.44	2.38	98	1.91	78			
141.12	143.26	2.14	2.14	100	1.61	75			
143.26	144.78	1.52	1.52	100	0.59	39			
144.78	147.83	3.05	2.98	98	2.10	69			
147.83	149.35	1.52	1.52	100	0.65	43			
149.35	152.40	3.05	2.65	87	0.96	31			
152.40	155.45	3.05	3.05	100	1.73	57			
155.45	158.50	3.05	3.02	99	2.65	87			
158.50	161.54	3.04	3.05	100	2.60	86			
161.54	164.59	3.05	2.88	94	1.69	55			
164.59	167.64	3.05	2.93	96	2.32	76			
167.64	170.69	3.05	3.05	100	2.62	86			
170.69	173.74	3.05	3.05	100	2.60	85			
173.74	176.79	3.05	3.05	100	2.76	90			
176.79	179.83	3.04	3.04	100	1.83	60			
179.83	182.88	3.05	3.00	98	2.67	88			
182.88	185.93	3.05	3.05	100	2.32	76			
185.93	188.98	3.05	2.80	92	2.28	75			
188.98	192.02	3.04	3.00	99	2.93	96			
192.02	195.07	3.05	3.05	100	3.05	100			
195.07	198.12	3.05	3.05	100	3.05	100			
198.12	201.17	3.05	3.05	100	3.05	100			
201.17	202.69	1.52	1.52	100	1.57	103			
202.69	205.74	3.05	3.05	100	2.90	95			
205.74	208.79	3.05	3.05	100	2.92	96			
208.79	211.84	3.05	3.02	99	2.63	86			
211.84	214.88	3.04	3.04	100	2.86	94			
214.88	217.93	3.05	2.96	97	2.56	84			
217.93	220.98	3.05	3.05	100	2.44	80			
220.98	224.03	3.05	3.04	100	2.91	95			
224.03	227.08	3.05	3.03	99	3.03	99			
227.08	230.12	3.04	3.05	100	3.05	100			
230.12	233.17	3.05	3.05	100	3.05	100			
233.17	236.22	3.05	3.05	100	3.05	100			
236.22	239.27	3.05	3.01	99	3.01	99			
239.27	242.32	3.05	3.05	100	3.05	100			
242.32	245.36	3.04	3.05	100	3.05	100			
245.36	251.46	6.10	5.94	97	5.54	91			
251.46	256.03	4.57	4.40	96	4.17	91			
256.03	259.08	3.05	3.05	100	2.87	94			
259.08	262.13	3.05	3.05	100	2.58	85			
262.13	264.26	2.13	2.13	100	2.21	104			
264.26	266.70	2.44	1.97	81	1.80	74			
266.70	269.75	3.05	2.70	89	2.32	76			
269.75	272.80	3.05	2.95	97	2.89	95			
272.80	274.32	1.52	1.52	100	1.73	114			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
	274.32	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-12

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
36.58	39.62	3.04	H246693	0.01	0.26	1100	91.70	
39.62	42.72	3.10	H246694	0.01	0.15	1295	144.00	
42.72	45.72	3.00	H246695	0.01	0.05	20	3.29	
45.72	48.72	3.00	H246696	0.01	0.16	123	11.20	
48.72	51.72	3.00	H246697	0.01	0.12	20	3.68	
51.72	54.72	3.00	H246698	0.01	0.07	24	4.40	
54.72	57.72	3.00	H246699	0.01	0.03	8	0.96	
57.72	60.72	3.00	H246701	0.01	0.07	18	2.05	
60.72	63.72	3.00	H246702	0.01	0.10	36	3.76	
63.72	66.49	2.77	H246703	0.01	0.05	17	1.81	
66.49	68.49	2.00	H246704	0.01	0.04	53	6.14	
68.49	70.26	1.77	H246705	0.01	0.07	20	1.64	
70.26	73.26	3.00	H246706	0.01	0.19	123	45.40	
73.26	75.26	2.00	H246707	0.01	0.17	89	10.15	
75.26	78.26	3.00	H246708	0.01	0.05	42	5.13	
78.26	80.26	2.00	H246709	0.01	0.05	16	1.46	
193.63	196.63	3.00	H246225	0.01	0.09	9	0.39	
196.63	199.63	3.00	H246226	0.01	0.08	17	1.21	
199.63	202.63	3.00	H246227	0.01	0.13	69	2.34	
202.63	205.63	3.00	H246228	0.01	0.13	45	0.37	
205.63	208.63	3.00	H246229	0.01	0.11	36	1.89	
208.63	211.63	3.00	H246230	0.01	0.13	3	0.32	
211.63	214.63	3.00	H246231	0.01	0.12	25	0.18	
214.63	216.43	1.80	H246232	0.01	0.12	39	0.12	
216.43	219.43	3.00	H246233	0.01	0.95	17	0.27	
219.43	220.75	1.32	H246234	0.01	0.34	183	0.35	
220.75	223.75	3.00	H246235	0.01	0.09	11	0.03	
223.75	226.75	3.00	H246237	0.03	0.06	17	0.03	
226.75	229.75	3.00	H246238	0.03	0.04	6	0.02	
229.75	232.75	3.00	H246240	0.01	0.05	10	0.01	
232.75	235.75	3.00	H246241	0.01	0.10	13	0.04	
235.75	238.75	3.00	H246242	0.01	0.10	5	0.03	
238.75	241.75	3.00	H246243	0.01	0.07	3	0.03	
241.75	244.75	3.00	H246244	0.01	0.09	7	0.04	
244.75	247.75	3.00	H246245	0.01	0.07	23	0.04	
247.75	250.70	2.95	H246246	0.01	0.07	17	0.02	
250.70	253.40	2.70	H246247	0.01	0.08	7	0.02	
253.40	256.40	3.00	H246248	0.01	0.09	10	0.02	
256.40	259.40	3.00	H246249	0.01	0.08	11	0.02	
-	-	-	H246700	<0.01	<0.01	<5	0.07	Blank
-	-	-	H246236	<0.01	0.08	<5	0.03	Blank
-	-	-	H246239	15.20	11.25	465	0.05	Standard

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-12

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
0.00	OVB		0.04	
4.57	LST	FOS	0.11	
7.62	LST	FOS	0.04	
10.67	LST	FOS	0.03	
12.19	LST	FOS	0.04	
15.24	LST		0.01	
18.29	LST		0.00	
21.34	LST		0.02	
24.38	LST		0.04	
27.43	LST		0.00	
30.48	LST		0.01	
33.53	LST		0.10	
36.58	LST		0.00	
39.62	QZ		3.64	
42.67	LST		0.16	
45.72	LST		9.06	
48.77	LST		2.20	
51.82	LST		2.64	
54.86	VOL	ALT	0.56	
57.91	VOL	ALT	0.06	
60.96	VOL	ALT	0.04	
64.01	VOL	ALT	0.06	
67.06	VOL	ALT	0.04	
70.10	VOL	ALT	0.03	
73.15	VOL	ALT	0.04	
76.20	VOL	ALT	0.04	
79.25	LST		0.03	
82.30	LST		0.02	
88.39	LST		0.02	
89.92	LST		0.02	
92.96	LST		0.04	
96.01	LST		0.03	
97.54	LST		0.04	
100.58	LST		0.02	
103.63	LST		0.05	
106.68	LST		0.03	
109.73	LST		0.02	
112.78	LST		-0.02	
115.82	LST		0.04	
118.87	LST		0.00	
121.92	LST		0.02	
124.97	LST		0.00	
128.02	LST		0.00	
131.06	LST		-0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
131.98	LST		-0.07	
134.11	LST		0.07	
136.25	LST		0.02	
138.68	LST		0.01	
141.12	LST		0.00	
143.26	LST		0.03	
144.78	LST		0.06	
147.83	LST		0.03	
149.35	LST		0.02	
152.40	LST		0.06	
155.45	LST		0.10	
158.50	LST		0.05	
161.54	LST		0.03	
164.59	LST		-0.02	
167.64	LST		0.01	
170.69	LST		0.02	
173.74	LST		0.01	
176.79	LST		-0.03	
179.83	LST		0.00	
182.88	LST		0.86	
185.93	DOL		2.24	
188.98	LST		0.02	
192.02	LST		-0.04	
195.07	LST		0.01	
198.12	LST		0.38	
201.17	VOL		0.92	
202.69	VOL		0.78	
205.74	VOL		5.05	
208.79	VOL		0.66	
211.84	VOL		0.66	
214.88	VOL		1.23	
217.93	LST		-0.05	
220.98	LST		0.09	
224.03	LST		-0.02	
227.08	LST		-0.04	
230.12	LST		0.37	
233.17	LST		0.63	
236.22	LST		0.33	
239.27	LST		0.52	
242.32	LST		1.33	
245.36	LST		1.31	
251.46	LST		0.06	
256.03	LST		0.10	
259.08	LST		0.07	
262.13	LST		-0.07	
264.26	LST		-0.01	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
266.70	LST		0.04	
269.75	LST		0.09	
272.80	LST		0.04	

RAU PROJECT

ZONE: Tiger
SECTION: 9+700 NW

HOLE: Rau-08-13
CLAIM: Rau-56

Easting	Northing	Elev.	Depth (m)
528743	7118863	1393	222.81

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60°	compass				

Core size: BTW
Casing depth: 3.04 (m) out

Drilling dates:

Logged by: M.R.Dumala

Target: strike extension of mineralized zone

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	24.38	24.38	OVB	
24.38	36.43	12.05	VOL	Altered
36.43	222.81	186.38	LST	Altered

SAMPLES

Numbers: H246261-H246300
H246551-H246564
Total: 54
Date sent:
Certificate:

COMMENTS

did not extend deep enough to intersect discovery horizon

GEOLOGY LOG

HOLE: RAU-08-13

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	24.38	24.38	LST		BX																	Medium grey weakly dolomitized limestone with weak solution collapse brecciated texture. The interval is fairly to strongly rubbly with orange-red-brown alteration on some of the rubbly surfaces.
													MBL	f								22.00-24.30 m: Weakly to fairly marbleized limestone.
24.38	36.43	12.05	VOL	ALT	FO	FO	55			f												Brownish black and yellowish-tan-brown where sericite altered amygduloidal volcaniclastic with Ca infill. Weak to fair foliation occurs at 55 deg to CA. No mineralization occurs within.
					AM					ms												24.30-29.75 m: Moderately strong yellow tan sericite alteration.
36.43	222.81	186.38	LST	ALT	BN	BD	80		m						f		t					Medium to light grey moderately dolomitized limestone with a sharp upper contact with VOL at 80 deg to CA. Stylolitic banding occurs at between 70-90 deg to CA. A weak crackle texture overprints the banding. Weak patchy/disseminated pyrite. Weak mica/talc. There are zones of creamy yellow more strongly dolomitized limestone. Associated with this are thin pale yellow dolomite veinlets that cut the steeper stylolitic bands at 55 deg to CA. There is a weak concentration of quartz scattered throughout. Often associated with veining.
						VN	55															53.48-70.00 m: The dolomitized limestone is now becoming more solution collapse brecciated. There is weak to fair talc scattered throughout.
						VN	25										m					60.75-61.00 m: Veins containing Po occur at 25 deg to CA
						CN	80								m							66.70-66.73 m: Pyrite rubble zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						70.00 m: The brecciation is increasingly to moderately strong. See more of a mosaic breccia with angular to subangular clasts with a white dolomitized matrix. Talc occurs on fractures, weak to fair overall. Coarse grained dolomite veins cut the breccia at 45 deg to CA.
						VN	40															74.00 m: Mineralized Py veins cut the breccia at 30-50 deg to CA.
																						75.05-77.00 m: Begin to get a zone of quite coarse grained dolomite.
						VN	45								40		10					85.03-83.25 m: Semi-massive pyrite with some pyrrhotite. Occurs in a vein (?).
															40							103.90 m: 75 cm zone of semi-massive pyrite
															w							104.85 m: The breccia now has a slightly preferred orientation at 15 deg to CA. Scattered fine grained strongly disseminated patches of pyrite occur, weak overall.
																						121.80-122.00 m: 20 cm zone of intense quartz flood.
						BN	65								s							129.54-133.00 m: Zone of strongly disseminated very fine grained powdery pyrite. Banding occurs at 65 deg to CA with Qz+/-Ca veins cutting at 15 deg to CA.
						VN	15															148.70-151.80 m: Strong concentration of quartz, probably associated with veining, but orientations are non-determinable.
															w							151.80 m: Return to medium to dark grey fairly dolomitized brecciated limestone with 55-60 deg preferred orientation of the dolomite matrix and veining. Weak finely disseminated pyrite occurs scattered throughout. There is a slight increase in the concentration of quartz at 141.50 m. Associated with this is medium grained pyrite.
						VN	35								t		w					185.00-186.20 m: Massive quartz with trace pyrite occurring within. A 10 cm zone of semi-massive pyrrhotite occurs at the upper contact with the limestone.
															w		w					198.10-201.00 m: Quartz vein with Py and Po (weak overall). Moderate talc within the upper 50 cm. Pyrite picks up at the lower contact.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	15								t							202.10-222.81 m: Clean fluid collapse brecciated with preferred orientation at 15 deg to CA. Trace pyrite occurs within.
																						222.81 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-13

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	6.10	6.10	0.70	11	0.00	0			
6.10	9.14	3.04	2.20	72	0.51	17			
9.14	12.19	3.05	2.16	71	0.22	7			
12.19	15.24	3.05	2.08	68	0.00	0			
15.24	16.15	0.91	0.48	53	0.17	19			
16.15	18.29	2.14	0.47	22	0.20	9			
18.29	19.89	1.60	1.38	86	0.70	44			
19.89	24.38	4.49	1.57	35	0.58	13			
24.38	27.43	3.05	0.70	23	0.00	0			
27.43	28.96	1.53	1.20	78	0.15	10			
28.96	30.48	1.52	1.52	100	1.67	110			
30.48	33.53	3.05	2.55	84	2.14	70			
33.53	35.05	1.52	1.52	100	1.69	111			
35.05	38.10	3.05	3.05	100	2.44	80			
38.10	41.15	3.05	3.00	98	2.82	92			
41.15	44.20	3.05	2.85	93	2.23	73			
44.20	47.24	3.04	3.05	100	2.34	77			
47.24	50.29	3.05	2.93	96	2.12	70			
50.29	53.34	3.05	2.98	98	2.18	71			
53.34	56.39	3.05	2.60	85	2.01	66			
56.39	59.44	3.05	3.05	100	2.98	98			
59.44	62.48	3.04	3.05	100	2.08	68			
62.48	65.53	3.05	3.01	99	2.84	93			
65.53	67.08	1.55	1.46	94	1.16	75			
67.08	70.10	3.02	3.02	100	2.97	98			
70.10	73.15	3.05	3.05	100	2.97	97			
73.15	76.20	3.05	3.05	100	3.05	100			
76.20	79.25	3.05	2.78	91	2.52	83			
79.25	82.30	3.05	2.93	96	2.69	88			
82.30	83.82	1.52	1.43	94	1.29	85			
83.82	86.87	3.05	2.95	97	2.65	87			
86.87	89.92	3.05	3.05	100	2.87	94			
89.92	92.96	3.04	2.84	93	2.43	80			
92.96	94.49	1.53	1.53	100	1.58	103			
94.49	97.54	3.05	2.95	97	2.03	67			
97.54	100.58	3.04	3.05	100	2.73	90			
100.58	103.63	3.05	3.03	99	2.34	77			
103.63	106.68	3.05	3.05	100	2.28	75			
106.68	109.73	3.05	2.78	91	2.68	88			
109.73	111.86	2.13	2.12	100	2.09	98			
111.86	114.30	2.44	2.44	100	2.16	89			
114.30	117.35	3.05	3.04	100	2.51	82			
117.35	120.40	3.05	3.05	100	2.86	94			
120.40	123.44	3.04	2.90	95	1.63	54			
123.44	126.49	3.05	3.05	100	3.00	98			
126.49	129.54	3.05	3.05	100	2.50	82			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
129.54	131.06	1.52	1.52	100	0.54	36			
131.06	135.64	4.58	4.45	97	3.05	67			
135.64	138.68	3.04	2.98	98	1.50	49			
138.68	142.65	3.97	2.87	72	1.81	46			
142.65	144.78	2.13	1.57	74	0.77	36			
144.78	147.72	2.94	2.58	88	1.68	57			
147.72	148.35	0.63	0.63	100	1.47	233			
148.35	150.88	2.53	1.62	64	1.25	49			
150.88	153.92	3.04	2.82	93	2.53	83			
153.92	155.45	1.53	1.53	100	1.39	91			
155.45	158.50	3.05	3.05	100	2.82	92			
158.50	161.54	3.04	3.04	100	2.92	96			
161.54	164.59	3.05	3.05	100	2.91	95			
164.59	167.64	3.05	3.02	99	2.76	90			
167.64	170.69	3.05	3.05	100	3.02	99			
170.69	173.74	3.05	3.00	98	2.83	93			
173.74	176.72	2.98	2.98	100	3.02	101			
176.72	181.36	4.64	4.43	95	4.36	94			
181.36	184.40	3.04	3.02	99	2.54	84			
184.40	185.93	1.53	1.43	93	1.12	73			
185.93	188.98	3.05	3.05	100	2.95	97			
188.98	192.02	3.04	3.05	100	2.75	90			
192.02	195.07	3.05	2.98	98	2.98	98			
195.07	198.12	3.05	3.05	100	2.82	92			
198.12	201.17	3.05	3.03	99	2.19	72			
201.17	204.22	3.05	3.05	100	2.40	79			
204.22	206.65	2.43	2.43	100	2.20	91			
206.65	208.79	2.14	1.77	83	1.45	68			
208.79	210.92	2.13	2.13	100	1.91	90			
210.92	212.45	1.53	1.53	100	1.20	78			
212.45	214.60	2.15	2.19	102	1.96	91			
214.60	216.71	2.11	1.72	82	0.64	30			
216.71	218.50	1.79	1.79	100	1.28	72			
218.50	220.07	1.57	1.38	88	1.02	65			
220.07	221.89	1.82	1.49	82	1.04	57			
221.89	222.81	0.92	0.92	100	0.30	33			

SAMPLE LOG

HOLE: RAU-08-13

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
31.23	34.23	3.00	H246261	0.01	0.01	4	0.31	
34.23	36.45	2.22	H246262	0.01	0.04	45	3.25	
36.45	38.50	2.05	H246263	0.01	0.12	10	71.40	
38.50	41.50	3.00	H246264	0.04	0.19	94	12.50	
78.26	81.26	3.00	H246265	0.01	0.18	10	21.30	
81.26	84.26	3.00	H246266	0.01	0.04	7	0.52	
84.26	87.26	3.00	H246267	0.05	0.18	126	9.12	
87.26	90.26	3.00	H246268	0.01	0.64	40	8.53	
90.26	93.26	3.00	H246269	0.06	0.48	46	6.83	
93.26	95.50	2.24	H246270	0.04	0.37	37	4.75	
95.50	97.05	1.55	H246271	0.15	1.40	81	7.20	
97.05	100.05	3.00	H246273	0.05	0.73	65	7.22	
100.05	103.05	3.00	H246274	0.09	0.51	154	3.42	
103.05	106.05	3.00	H246275	2.18	1.26	6530	20.90	
106.05	109.05	3.00	H246277	0.07	0.36	99	2.33	
109.05	112.05	3.00	H246278	0.04	0.16	123	2.74	
112.05	115.05	3.00	H246279	5.86	0.83	3060	10.05	
115.05	118.05	3.00	H246280	0.04	0.10	39	2.08	
118.05	121.05	3.00	H246281	0.59	0.09	389	5.33	
121.05	124.05	3.00	H246282	0.03	0.35	105	24.20	
124.05	127.05	3.00	H246283	0.03	0.26	38	7.35	
127.05	129.54	2.49	H246284	0.05	0.45	54	15.90	
129.54	132.54	3.00	H246285	0.21	4.91	571	163.00	
132.54	135.54	3.00	H246286	0.04	2.71	150	49.30	
135.54	138.54	3.00	H246287	0.12	2.30	168	20.10	
138.54	141.54	3.00	H246288	0.04	0.57	51	2.09	
141.54	144.54	3.00	H246289	0.29	14.65	328	18.70	
144.54	147.54	3.00	H246290	0.10	5.30	107	22.10	
147.54	149.13	1.59	H246292	0.04	2.69	989	38.10	
149.13	152.13	3.00	H246293	0.04	3.38	619	427.00	
152.13	155.13	3.00	H246294	0.01	0.18	11	4.12	
155.13	158.13	3.00	H246295	0.02	0.26	56	9.48	
158.13	161.13	3.00	H246296	0.44	0.36	70	14.10	
161.13	164.13	3.00	H246298	0.01	0.31	35	4.89	
164.13	167.13	3.00	H246299	0.01	0.11	13	1.20	
167.13	170.13	3.00	H246300	0.02	0.13	22	3.65	
170.13	173.13	3.00	H246551	0.04	0.47	90	10.50	
173.13	176.13	3.00	H246552	0.01	0.18	18	4.01	
176.13	179.13	3.00	H246553	0.02	0.13	20	4.33	
179.13	182.13	3.00	H246554	0.08	0.28	30	6.59	
182.13	184.30	2.17	H246555	0.12	1.24	125	20.70	
184.30	187.20	2.90	H246556	0.05	1.60	63	33.80	
187.20	190.20	3.00	H246557	0.22	0.40	188	25.00	
190.20	192.30	2.10	H246558	0.16	0.23	33	11.40	
192.30	195.30	3.00	H246559	0.25	0.37	229	65.00	
195.30	197.58	2.28	H246560	0.27	0.26	105	20.40	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
197.58	201.17	3.59	H246561	0.05	1.29	106	51.10	
201.17	202.17	1.00	H246562	0.05	1.00	94	385.00	
202.17	204.17	2.00	H246563	0.10	0.36	33	10.80	
204.17	207.17	3.00	H246564	0.08	0.18	15	8.85	
-	-	-	H246272	<0.01	0.07	<5	0.15	Blank
-	-	-	H246276	15.20	11.60	406	0.04	Standard
-	-	-	H246291	0.01	0.28	6	0.35	Blank
-	-	-	H246297	14.85	8.52	418	0.17	Standard

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-13

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
28.96	VOL	ALT	1.36	
30.48	VOL	ALT	0.78	
33.53	VOL	ALT	1.93	
35.05	VOL	ALT	0.34	
38.10	LST	ALT	0.00	
41.15	LST	ALT	0.04	
44.20	LST	ALT	0.38	
47.24	LST	ALT	-0.05	
50.29	LST	ALT	-0.01	
53.34	LST	ALT	0.00	
56.39	LST	ALT	0.47	
59.44	LST	ALT	3.96	
62.48	LST	ALT	-0.02	
65.53	LST	ALT	-0.01	
67.08	LST	ALT	-0.02	
70.10	LST	ALT	-0.04	
73.15	LST	ALT	0.00	
76.20	LST	ALT	-0.01	
79.25	LST	ALT	0.01	
82.30	LST	ALT	0.03	
83.82	LST	ALT	4.30	
86.87	LST	ALT	1.20	
89.92	LST	ALT	0.08	
92.96	LST	ALT	0.05	
94.49	LST	ALT	1.85	
97.54	LST	ALT	0.03	
100.58	LST	ALT	0.11	
103.63	LST	ALT	0.07	
106.68	LST	ALT	-0.02	
109.73	LST	ALT	0.02	
111.86	LST	ALT	-0.03	
114.30	LST	ALT	-0.06	
117.35	LST	ALT	-0.04	
120.40	LST	ALT	0.00	
123.44	LST	ALT	0.02	
126.49	LST	ALT	-0.02	
129.54	LST	ALT	0.07	
131.06	LST	ALT	0.01	
135.64	LST	ALT	-0.03	
138.68	LST	ALT	0.03	
142.65	LST	ALT	0.50	
144.78	LST	ALT	0.03	
147.72	LST	ALT	1.09	
148.35	LST	ALT	13.80	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
150.88	LST	ALT	0.18	
153.92	LST	ALT	0.03	
155.45	LST	ALT	0.08	
158.50	LST	ALT	0.06	
161.54	LST	ALT	0.00	
164.59	LST	ALT	0.00	
167.64	LST	ALT	0.02	
170.69	LST	ALT	0.04	
173.74	LST	ALT	0.00	
176.72	LST	ALT	0.01	
181.36	LST	ALT	26.60	
184.40	LST	ALT	10.40	
185.93	LST	ALT	0.14	
188.98	LST	ALT	0.08	
192.02	LST	ALT	9.78	
195.07	LST	ALT	0.78	
198.12	LST	ALT	2.99	
201.17	LST	ALT	11.50	
204.22	LST	ALT	0.04	
206.65	LST	ALT	0.05	
208.79	LST	ALT	0.04	
210.92	LST	ALT	0.07	
212.45	LST	ALT	-0.01	
219.88	LST	ALT	0.02	
216.71	LST	ALT	-0.01	
218.50	LST	ALT	0.00	
220.07	LST	ALT	-0.02	
221.89	LST	ALT	0.00	

RAU PROJECT

ZONE: Tiger
SECTION: 10+000 NW

HOLE: Rau-08-14
CLAIM: Rau-71

Easting	Northing	Elev.	Depth (m)
528358	7118951	1238	164.59

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	050°	-50°	compass				
149.05	050°	-47°	icefield				

Core size: BTW
Casing depth: (m) out

Drilling dates:

Logged by: M.R.Dumala

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.00	1.00	OVB	
1.00	19.03	18.03	VOL	Altered
19.03	45.28	26.25	LST	
45.28	49.20	3.92	MBL	With impure silty horizons
49.20	113.60	64.40	MBL	
113.6	142.8	29.20	LST	
142.8	164.59	21.79	LEP	Altered volcaniclastic

SAMPLES	
Numbers:	H246565-H246584
	20
Total:	
Date sent:	
Certificate:	

COMMENTS

GEOLOGY LOG

HOLE: RAU-08-14

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.00	1.00	OVB																			
1.00	19.03	18.03	VOL	ALT	FO	FO	70			f					t							Greenish grey volcaniclastic showing small crystals of calcite faintly oriented forming a foliation. Thin 1-5mm Qz-Ca veinlets generally cutting at 70 deg to CA and 160 deg to FO. Fair sericite alteration. Trace fine grained disseminated pyrite.
						VN	70	180														
19.03	45.28	26.25	LST		BN	BD	50				m				t							Interbanded white and dark grey/black limestone with a slight marbleized appearance. Banding occurs at 50 deg to CA. Finely disseminated Py occurs mostly within the darker bands. 1-5 mm calcite veins cut bedding.
						VN	30	90							t		w					24.35-28.00 m: more pure looking limestone with an increase in the sulphide content and addition of pyrrhotite as small elongated blebs following bedding. The limestone has a slightly brownish tint to it, possibly sericite or biotite?
										w												Weak sericite alteration occurs near the lower contact of the unit.
45.28	49.20	3.92	MBL		BN	BD	55															Intermixed marble and dark grey silty limestone horizons.
49.20	113.60	64.40	MBL		MA	FX	50															Pure white marble with very faint peachy-orange-red alteration coming from thin veinlets (hematite?)
																						62.90-71.63 m: marble is stained orange-red colour, and has become quite a bit more rubbly particularly from 67-69 m. Fractured surfaces are coated in a red-orange coloured clay.
						BD	40-70															75.30-113.60 m: Begin to again see dark grey/black silty limestone horizons within the marble. Their nature seems to be bedded but they occur in a quite irregular - undulating bands.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
113.60	142.80	29.20	LST	FOS	BN	BD	60															Medium to dark grey limestone with banding defined by the darker grey silty horizons at 60 deg to CA. Crinoid stem fragments as well as other marine fossils occur and are particularly clear at 131 m. Zones of calcite flood occur in the limestone giving the core a faintly recrystallized breccia appearance. Very fine grained dark grey/black silty horizons are occasionally interbedded in the limestone. Upper contact is gradual with silty layers occurring within the marble.
																						123.5-128.5 m: White marbleized sections within the limestone.
142.80	164.59	21.79	LEP		MA	VN	60															Leopard print volcaniclastic. Dark grey/black spots that are subrounded 1-3mm in diameter with calcite matrix. Overall massive in appearance with no obvious foliation or banding. Thin Ca veins cut the unit at 60 deg to CA. The contact with the upper unit is gradual and interfingered.
																						164.59 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-14

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.05	3.05	1.02	33	0.13	4			
3.05	4.57	1.52	1.44	95	0.63	41			
4.57	6.10	1.53	1.33	87	0.93	61			
6.10	7.62	1.52	1.49	98	1.17	77			
7.62	9.14	1.52	1.34	88	0.60	39			
9.14	10.67	1.53	1.47	96	1.15	75			
10.67	12.19	1.52	1.39	91	1.27	84			
12.19	14.63	2.44	1.78	73	1.38	57			
14.63	16.15	1.52	1.43	94	1.43	94			
16.15	18.29	2.14	2.14	100	2.26	106			
18.29	21.34	3.05	2.41	79	1.82	60			
21.34	23.47	2.13	2.13	100	2.07	97			
23.47	25.91	2.44	2.00	82	1.66	68			
25.91	28.96	3.05	3.05	100	2.92	96			
28.96	31.39	2.43	2.43	100	1.91	79			
31.39	33.53	2.14	1.91	89	1.72	80			
33.53	35.66	2.13	2.13	100	2.17	102			
35.66	38.10	2.44	2.17	89	2.12	87			
38.10	41.15	3.05	3.02	99	2.88	94			
41.15	42.67	1.52	1.52	100	1.32	87			
42.67	45.72	3.05	2.74	90	2.29	75			
45.72	48.77	3.05	3.06	100	2.59	85			
48.77	51.82	3.05	3.05	100	2.60	85			
51.82	54.86	3.04	3.05	100	2.73	90			
54.86	57.91	3.05	3.05	100	2.98	98			
57.91	60.35	2.44	2.44	100	2.28	93			
60.35	62.48	2.13	2.02	95	1.93	91			
62.48	65.53	3.05	2.78	91	1.57	51			
65.53	67.06	1.53	1.49	97	0.64	42			
67.06	68.58	1.52	1.33	88	0.31	20			
68.58	70.10	1.52	1.42	93	0.94	62			
70.10	71.63	1.53	1.49	97	1.18	77			
71.63	74.68	3.05	3.04	100	2.83	93			
74.68	77.72	3.04	3.04	100	3.10	102			
77.72	80.77	3.05	3.02	99	2.80	92			
80.77	83.82	3.05	3.05	100	2.91	95			
83.82	86.87	3.05	3.05	100	3.05	100			
86.87	89.92	3.05	3.06	100	2.77	91			
89.92	92.96	3.04	3.05	100	3.00	99			
92.96	96.01	3.05	3.05	100	2.98	98			
96.01	99.06	3.05	3.05	100	2.97	97			
99.06	101.50	2.44	2.15	88	1.97	81			
101.50	102.12	0.62	0.62	100	1.25	202			
102.12	104.55	2.43	1.73	71	1.09	45			
104.55	107.59	3.04	3.04	100	2.60	86			
107.59	108.81	1.22	1.22	100	1.18	97			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
108.81	111.25	2.44	2.39	98	2.21	91			
111.25	114.30	3.05	3.05	100	2.99	98			
114.30	117.35	3.05	3.01	99	2.22	73			
117.35	118.87	1.52	1.52	100	1.29	85			
118.87	121.92	3.05	2.82	92	2.24	73			
121.92	124.97	3.05	2.98	98	2.69	88			
124.97	128.02	3.05	3.05	100	3.02	99			
128.02	131.06	3.04	3.04	100	2.75	90			
131.06	132.59	1.53	1.36	89	1.21	79			
132.59	135.64	3.05	3.06	100	2.48	81			
135.64	137.77	2.13	2.13	100	1.51	71			
137.77	138.68	0.91	0.88	97	0.53	58			
138.68	141.73	3.05	2.93	96	2.08	68			
141.73	144.77	3.04	2.49	82	1.68	55			
144.77	145.08	0.31	0.31	100	0.57	184			
145.08	147.83	2.75	2.75	100	2.94	107			
147.83	150.88	3.05	2.91	95	2.96	97			
150.88	153.92	3.04	3.04	100	2.80	92			
153.92	156.67	2.75	2.38	87	1.89	69			
156.67	158.50	1.83	1.56	85	1.02	56			
158.50	161.54	3.04	2.87	94	2.26	74			
161.54	164.59	3.05	3.05	100	2.53	83			
	164.59	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-14

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.05	6.05	3.00	H246565	0.01	0.28	4	0.13	
6.05	9.05	3.00	H246566	0.01	0.43	7	0.12	
9.05	12.05	3.00	H246567	0.01	0.13	1	0.03	
12.05	15.05	3.00	H246568	0.01	0.18	4	0.06	
15.05	17.57	2.52	H246569	0.01	0.11	1	0.29	
17.57	19.57	2.00	H246570	0.02	0.18	3	0.06	
19.57	21.57	2.00	H246572	0.01	0.12	7	0.08	
21.57	24.07	2.50	H246573	0.01	0.02	3	0.01	
24.07	27.07	3.00	H246574	0.01	0.08	6	0.04	
27.07	30.07	3.00	H246575	0.01	0.05	3	0.04	
30.07	33.07	3.00	H246576	0.02	0.04	3	0.04	
33.07	36.07	3.00	H246578	0.01	0.07	20	0.04	
36.07	39.07	3.00	H246579	0.01	0.06	5	0.02	
39.07	41.24	2.17	H246580	0.01	0.05	18	0.02	
41.24	43.24	2.00	H246581	0.01	0.07	13	0.08	
43.24	45.24	2.00	H246582	0.01	0.07	13	0.06	
45.24	47.24	2.00	H246583	0.01	0.07	7	0.03	
47.24	50.24	3.00	H246584	0.01	0.07	17	0.03	
-	-	-	H246571	<0.01	0.03	<5	0.08	Blank
-	-	-	H246577	14.75	7.76	390	0.04	Standard

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-14

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3.05	VOL	ALT	0.80	
4.57	VOL	ALT	0.60	
6.10	VOL	ALT	3.52	
7.62	VOL	ALT	22.90	
9.14	VOL	ALT	0.53	
10.67	VOL	ALT	0.55	
12.19	VOL	ALT	0.44	
14.63	VOL	ALT	0.44	
16.15	VOL	ALT	0.63	
18.29	VOL	ALT	7.40	
21.34	LST		0.04	
23.47	LST		0.98	
25.91	LST		0.47	
28.96	LST		0.55	
31.39	LST		1.10	
33.53	LST		1.98	
35.66	LST		0.38	
38.10	LST		0.19	
41.15	LST		0.29	
42.67	LST		0.45	
45.72	MBL		0.06	
48.77	MBL		0.06	
51.82	MBL		-0.03	
54.86	MBL		0.19	
57.91	MBL		0.00	
60.35	MBL		0.10	
62.48	MBL		0.06	
65.53	MBL		0.00	
67.06	MBL		0.06	
68.58	MBL		-0.03	
70.10	MBL		-0.02	
71.63	MBL		0.02	
74.68	MBL		0.08	
77.72	MBL		0.29	
80.77	MBL		0.11	
83.82	MBL		0.13	
86.87	MBL		0.03	
89.92	MBL		0.01	
92.96	MBL		0.04	
96.01	MBL		0.00	
99.06	MBL		-0.02	
101.50	MBL		0.08	
102.12	MBL		0.00	
104.55	MBL		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
107.59	MBL		0.00	
108.81	MBL		0.05	
111.25	MBL		0.04	
114.30	LST		0.19	
117.35	LST		0.05	
118.87	LST		0.73	
121.92	LST		0.08	
124.97	LST		0.02	
128.02	LST		-0.01	
131.06	LST		0.13	
132.59	LST		0.24	
135.64	LST		0.22	
137.77	LST		0.55	
138.68	LST		0.94	
141.73	LST		0.65	
144.77	LEP		0.55	
145.08	LEP		0.37	
147.83	LEP		0.45	
150.88	LEP		0.35	
153.92	LEP		0.19	
156.67	LEP		0.52	
158.50	LEP		0.39	
161.54	LEP		0.33	

RAU PROJECT

ZONE: Tiger
SECTION: 9+650 NW

HOLE: Rau-08-15
CLAIM: Rau-56

Easting	Northing	Elev.	Depth (m)
528764	7118799	1411	227.08

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-55°	compass				
225.25	230°	-47°	icefield				

Core size: BTW
Casing depth: 3.04 (m) in/out

Drilling dates:

Logged by: M.R.Dumala

Target: strike extension of mineralized horizons

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	70.44	70.44	LST	
70.44	91.76	21.32	VOL	Altered
91.76	227.08	135.32	LST	

SAMPLES

Numbers: H246585-H246608

Total: 24
Date sent:
Certificate:

COMMENTS

Hole Rau-08-15A drilled at an angle of -60° was lost during drilling at 137.50 m. Hole Rau-09-15B is a redrill at the same location but at a dip of -55°.

GEOLOGY LOG

HOLE: RAU-08-15

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	70.44	70.44	LST	FOS	BX	FO	60		f						t							Medium grey, fossiliferous, fairly dolomitized limestone with moderate brecciation by calcite veinlets. Foliation is rare but does occur between 50-70 deg to CA. Trace disseminated pyrite. Interspersed Ca veins occur at 65 deg to CA. The interval is quite rubbly up until 9 m.
				ALT		VN	65															64.00 m: Zone of quite strongly fractured marbleized limestone.
70.44	91.76	21.32	VOL	ALT						f					f		t	Mag	t			Dark green to black fine grained volcaniclastic with weak to moderate sericite alteration along a foliation of 50 deg to CA. Trace pyrrhotite, magnetite, and fair finely disseminated pyrite occur scattered throughout.
91.76	227.08	135.32	LST		BN	BD	60		f						w			Sp	t			Medium grey fairly dolomitized fluid collapse brecciated limestone with stylolitic bands at 60 deg to CA. Pyrite is typically trace fine grained and disseminated by rarely occurs in larger patches and masses. Qz +/- Ca veins rarely cut the unit in varying orientations. Trace red sphalerite occurs within strongly brecciated and sometimes broken areas of the core.
				FLT																		154.00-158.90 m: Broken and rubbly.
						VN	40															182.83 m: Increase in the concentration of quartz veins running at 40 deg to CA.
																						190.00-193.20 m: Another rubbly zone occurs within the limestone. There is minor red (hematite?) coating on fractures.
																						198.58 m: 83 cm quartz vein with trace pyrite cuts the limestone. Surrounding the limestone there is a zone of crackle brecciation.
																						219.00 m: 1-2 cm quartz veins occur at 70 deg to CA.
																						224.00 m: 10 cm gouge zone occurs.
																						227.08 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

HOLE: RAU-08-15

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	4.27	4.27	0.49	11	0.00	0			
4.27	5.49	1.22	1.21	99	0.41	34			
5.49	7.62	2.13	1.93	91	1.42	67			
7.62	9.45	1.83	1.65	90	1.08	59			
9.45	12.19	2.74	2.74	100	2.39	87			
12.19	14.48	2.29	2.04	89	2.04	89			
14.48	16.76	2.28	2.28	100	2.26	99			
16.76	19.51	2.75	2.75	100	2.31	84			
19.51	22.86	3.35	3.05	91	2.34	70			
22.86	25.91	3.05	2.02	66	1.70	56			
25.91	27.34	1.43	1.43	100	2.72	190			
27.34	30.48	3.14	2.48	79	2.32	74			
30.48	33.53	3.05	2.94	96	2.81	92			
33.53	36.58	3.05	3.00	98	2.71	89			
36.58	38.10	1.52	1.52	100	1.51	99			
38.10	41.15	3.05	2.94	96	2.58	85			
41.15	44.20	3.05	3.05	100	2.59	85			
44.20	46.33	2.13	2.13	100	1.17	55			
46.33	48.77	2.44	2.20	90	1.65	68			
48.77	51.82	3.05	3.05	100	2.90	95			
51.82	54.86	3.04	2.94	97	2.66	88			
54.86	57.91	3.05	2.98	98	2.89	95			
57.91	59.74	1.83	1.82	99	1.53	84			
59.74	62.48	2.74	2.43	89	2.20	80			
62.48	65.23	2.75	2.75	100	2.05	75			
65.23	67.06	1.83	1.52	83	1.52	83			
67.06	70.10	3.04	3.04	100	2.87	94			
70.10	71.63	1.53	1.53	100	1.37	90			
71.63	74.68	3.05	3.00	98	3.00	98			
74.68	77.72	3.04	2.96	97	2.65	87			
77.72	80.77	3.05	2.88	94	2.70	89			
80.77	82.30	1.53	1.53	100	1.18	77			
82.30	85.34	3.04	2.83	93	3.74	123			
85.34	86.87	1.53	1.49	97	1.38	90			
86.87	89.92	3.05	3.05	100	2.99	98			
89.92	92.96	3.04	3.00	99	2.78	91			
92.96	96.01	3.05	3.02	99	3.00	98			
96.01	99.06	3.05	3.05	100	2.51	82			
99.06	102.11	3.05	3.05	100	2.85	93			
102.11	105.16	3.05	2.96	97	2.45	80			
105.16	107.59	2.43	2.21	91	1.35	56			
107.59	109.73	2.14	1.74	81	0.86	40			
109.73	112.78	3.05	2.86	94	2.44	80			
112.78	115.82	3.04	3.04	100	2.62	86			
115.82	118.87	3.05	2.63	86	2.23	73			
118.87	121.62	2.75	3.02	110	2.81	102			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
121.62	124.66	3.04	3.01	99	3.00	99			
124.66	126.49	1.83	1.83	100	1.94	106			
126.49	129.54	3.05	2.84	93	2.65	87			
129.54	132.59	3.05	3.05	100	2.75	90			
132.59	135.64	3.05	3.02	99	2.65	87			
135.64	138.68	3.04	3.04	100	2.95	97			
138.68	140.21	1.53	1.26	82	0.89	58			
140.21	143.26	3.05	2.85	93	2.61	86			
143.26	145.39	2.13	2.13	100	2.23	105			
145.39	147.83	2.44	1.92	79	1.48	61			
147.83	150.88	3.05	2.93	96	2.60	85			
150.88	153.92	3.04	2.96	97	2.44	80			
153.92	155.45	1.53	1.29	84	0.79	52			
155.45	156.21	0.76	0.50	66	0.10	13			
156.21	157.89	1.68	1.15	68	0.10	6			
157.89	158.80	0.91	0.82	90	0.12	13			
158.80	161.54	2.74	2.34	85	1.87	68			
161.54	164.59	3.05	3.05	100	2.78	91			
164.59	167.64	3.05	3.05	100	3.05	100			
167.64	170.69	3.05	3.06	100	2.61	86			
170.69	173.74	3.05	3.05	100	2.98	98			
173.74	176.78	3.04	2.94	97	2.57	85			
176.78	178.92	2.14	2.14	100	1.75	82			
178.92	181.36	2.44	2.06	84	1.59	65			
181.36	184.40	3.04	3.03	100	2.40	79			
184.40	186.84	2.44	2.25	92	1.50	61			
186.84	188.48	1.64	1.64	100	1.69	103			
188.48	190.80	2.32	1.74	75	1.32	57			
190.80	193.24	2.44	2.34	96	0.29	12			
193.24	195.07	1.83	1.59	87	1.05	57			
195.07	198.12	3.05	3.05	100	2.90	95			
198.12	201.17	3.05	3.04	100	2.41	79			
201.17	202.69	1.52	1.28	84	1.07	70			
202.69	205.74	3.05	3.02	99	2.67	88			
205.74	208.79	3.05	3.05	100	3.05	100			
208.79	211.84	3.05	3.05	100	3.05	100			
211.84	214.88	3.04	2.82	93	2.62	86			
214.88	217.63	2.75	2.75	100	2.99	109			
217.63	220.68	3.05	3.05	100	2.75	90			
220.68	223.72	3.04	3.02	99	2.61	86			
223.72	226.16	2.44	2.44	100	2.05	84			
226.16	227.08	0.92	0.60	65	0.00	0			
	227.08	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-15

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
68.97	70.44	1.47	H246585	0.01	0.04	14	1.67	
70.44	73.44	3.00	H246586	0.01	0.24	85	63.80	
73.44	75.64	2.20	H246587	0.01	0.03	13	3.54	
75.64	78.64	3.00	H246588	0.01	0.01	4	0.59	
78.64	81.64	3.00	H246589	0.01	0.07	2	0.29	
81.64	84.64	3.00	H246590	0.01	0.15	2	0.14	
84.64	87.48	2.84	H246591	0.01	0.20	2	0.08	
87.48	90.48	3.00	H246593	0.01	0.12	35	1.12	
90.48	91.76	1.28	H246594	0.03	0.11	81	2.94	
91.76	93.76	2.00	H246595	0.39	0.16	983	11.70	
93.76	96.01	2.25	H246596	1.16	0.88	1020	73.30	
96.01	99.01	3.00	H246597	0.02	0.04	69	1.57	
175.20	178.20	3.00	H246598	0.01	0.10	30	3.70	
178.20	181.20	3.00	H246599	0.02	0.40	25	3.92	
181.20	184.20	3.00	H246600	0.02	1.29	21	4.19	
184.20	187.20	3.00	H246601	0.07	1.52	36	8.02	
187.20	190.20	3.00	H246602	0.03	2.64	36	9.07	
190.20	193.20	3.00	H246603	0.04	1.54	35	5.98	
193.20	196.20	3.00	H246605	0.03	0.77	18	4.76	
196.20	198.58	2.38	H246606	0.07	0.62	27	9.84	
198.58	199.58	1.00	H246607	0.03	0.69	32	6.36	
199.58	202.58	3.00	H246608	0.04	0.85	27	8.93	
-	-	-	H246592	<0.01	0.01	<5	0.05	Blank
-	-	-	H246604	14.65	9.87	424	0.09	Standard

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-15

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
0.00	LST			
4.27	LST			
5.49	LST		0.07	
7.62	LST		0.06	
9.45	LST		0.02	
12.19	LST		-0.02	
14.48	LST		0.00	
16.76	LST		0.00	
19.51	LST		0.00	
22.86	LST		0.02	
25.91	LST		0.01	
27.34	LST		0.01	
30.48	LST		0.03	
33.53	LST		0.00	
36.58	LST		-0.03	
38.10	LST		-0.05	
41.15	LST		-0.06	
44.20	LST		-0.07	
46.33	LST		-0.01	
48.77	LST		0.01	
51.82	LST		-0.02	
54.86	LST		-0.06	
57.91	LST		-0.01	
59.74	LST		-0.04	
62.48	LST		-0.05	
65.23	VOL	ALT	-0.03	
67.06	VOL	ALT	0.00	
70.10	VOL	ALT	0.03	
71.63	VOL	ALT	0.42	
74.68	VOL	ALT	0.49	
77.72	VOL	ALT	4.24	
80.77	VOL	ALT	11.00	
82.30	VOL	ALT	8.43	
85.34	LST		0.75	
86.87	LST		0.21	
89.92	LST		0.12	
92.96	LST		0.19	
96.01	LST		0.03	
99.06	LST		0.01	
102.11	LST		0.00	
105.16	LST		-0.03	
107.59	LST		0.02	
109.73	LST		0.00	
112.78	LST		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
0.00	LST			
115.82	LST		-0.01	
118.87	LST		-0.02	
121.62	LST		0.01	
124.66	LST		0.03	
126.49	LST		0.01	
129.54	LST		-0.02	
132.59	LST		0.03	
135.64	LST		0.00	
138.68	LST		-0.01	
140.21	LST		-0.01	
143.26	LST		0.04	
145.39	LST		0.06	
147.83	LST		0.02	
150.88	LST		-0.04	
153.92	LST		0.35	
155.45	LST		0.02	
156.21	LST		0.04	
157.89	LST		0.06	
158.80	LST		-0.04	
161.54	LST		0.00	
164.59	LST		-0.04	
167.64	LST		0.03	
170.69	LST		-0.01	
173.74	LST		-0.04	
176.78	LST		0.14	
178.92	LST		0.02	
181.36	LST		0.13	
184.40	LST		0.03	
186.84	LST		0.12	
188.48	LST		0.06	
190.80	LST		0.06	
193.24	LST		0.00	
195.07	LST		0.03	
198.12	LST		0.10	
201.17	LST		0.01	
202.69	LST		0.01	
205.74	LST		0.04	
208.79	LST		0.01	
211.84	LST		0.04	
214.88	LST		0.05	
217.63	LST		0.05	
220.68	LST		0.02	
223.72	LST		0.35	

RAU PROJECT

ZONE: Tiger
SECTION: 10+200 NW

HOLE: Rau-08-16
CLAIM: Rau-69

Easting	Northing	Elev.	Depth (m)
528425	7119249	1322	83.52

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60°	compass				

Core size: BTW
Casing depth: 3.04 (m) in/out

Drilling dates:

Logged by: M.R.Dumala

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	19.81	19.81	LST	Altered
19.81	82.30	62.49	OX	

SAMPLES	
Numbers:	H246609-H246650
Total:	42
Date sent:	
Certificate:	

COMMENTS
rods lost

GEOLOGY LOG

HOLE: RAU-08-16

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	19.81	19.81	LST	ALT	BN	BD	70		w													Medium grey banded weakly dolomitized limestone. Banding runs at 70 deg to CA. Overall the recovery is quite poor.
19.81	82.30	62.49	OX																			Poorly recovered oxide. Generally a medium orange red brown colour. The oxide is a mixture of rubbly and gritty clay. Minor quartz grit occurs within.
																						19.81 m: COLOUR: 5YR 5/4 - reddish brown
																						36.58 m: COLOUR: 2.5YR 4/6 - red
																						54.50 m: COLOUR: 2.5YR 4/6 - red
																						68.20 m: COLOUR: 5YR 4/6 - yellowish red
																						74.70 m: COLOUR: 5YR 4/4 - reddish brown
																						76.20 m: COLOUR: 5YR 5/6 - yellowish red
																						NOTE: around 76 m, possible zone of altered volcaniclastic
																						82.30 m: E.O.H. - The hole was ended because the rods became stuck.

GEOTECHNICAL LOG

HOLE: RAU-08-16

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	5.18	5.18	0.34	7		0			
5.18	5.79	0.61	0.14	23		0			
5.79	8.84	3.05	0.28	9		0			
8.84	9.45	0.61	0.10	16		0			
9.45	15.24	5.79	0.37	6		0			
15.24	19.81	4.57	0.00	0		0			
19.81	21.95	2.14	1.45	68		0			
21.95	22.86	0.91	0.34	37		0			
22.86	23.47	0.61	0.14	23		0			
23.47	24.69	1.22	0.10	8		0			
24.69	25.69	1.00	0.25	25		0			
25.69	26.52	0.83	0.07	8		0			
26.52	27.74	1.22	0.25	20		0			
27.74	29.26	1.52	0.22	14		0			
29.26	30.78	1.52	0.72	47		0			
30.78	32.00	1.22	0.08	7		0			
32.00	33.53	1.53	1.53	100		0			
33.53	35.05	1.52	1.05	69		0			
35.05	36.58	1.53	0.41	27		0			
36.58	38.10	1.52	0.22	14		0			
38.10	39.62	1.52	0.00	0		0			
39.62	41.15	1.53	0.00	0		0			
41.15	42.67	1.52	0.35	23		0			
42.67	44.80	2.13	0.17	8		0			
44.80	45.72	0.92	0.18	20		0			
45.72	47.24	1.52	0.22	14		0			
47.24	48.77	1.53	0.08	5		0			
48.77	50.29	1.52	0.10	7		0			
50.29	53.34	3.05	0.34	11		0			
53.34	59.44	6.10	0.36	6		0			
59.44	60.05	0.61	0.16	26		0			
60.05	60.96	0.91	0.02	2		0			
60.96	65.84	4.88	0.30	6		0			
65.84	66.75	0.91	0.91	100	0.52	57			
66.75	67.06	0.31	0.31	100		0			
67.06	68.58	1.52	1.40	92	0.26	17			
68.58	70.10	1.52	0.07	5		0			
70.10	71.63	1.53	1.26	82		0			
71.63	73.76	2.13	1.35	63		0			
73.76	74.98	1.22	1.01	83		0			
74.98	76.20	1.22	1.00	82		0			
76.20	77.32	1.12	0.20	18		0			
77.32	79.25	1.93	0.94	49		0			
79.25	80.77	1.52	1.30	86	0.72	47			
80.77	82.30	1.53	1.40	92	0.68	44			
82.30	83.52	1.22	0.26	21		0			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
	83.52	E.O.H.							

SAMPLE LOG

HOLE: RAU-08-16

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
0.00	5.18	5.18	H246609	0.03	1.37	282	40.60	
5.18	5.79	0.61	H246610	0.04	0.80	29	3.55	
5.79	8.84	3.05	H246611	NSS	1.68	109	21.20	
8.84	9.45	0.61	H246612	0.29	17.05	7730	812.00	
9.45	15.24	5.79	H246613	0.32	13.35	4480	683.00	
19.81	21.95	2.14	H246614	15.75	52.00	10050	2150.00	
21.95	22.86	0.91	H246615	19.85	12.80	10050	1570.00	
22.86	23.47	0.61	H246616	26.40	6.79	10050	7060.00	
23.47	24.69	1.22	H246617	0.62	1.02	1245	141.00	
24.69	25.69	1.00	H246619	2.26	1.25	10050	4960.00	
26.52	27.74	1.22	H246620	2.24	1.33	7280	480.00	
27.74	29.26	1.52	H246621	1.55	0.71	5840	921.00	
29.26	30.78	1.52	H246623	0.76	0.34	7130	169.50	
32.00	33.53	1.53	H246624	1.03	0.36	9320	316.00	
33.53	35.05	1.52	H246625	0.39	0.12	3860	48.80	
35.05	36.58	1.53	H246626	0.70	0.27	7740	169.00	
36.58	38.10	1.52	H246627	0.88	0.14	10050	76.60	
41.15	42.67	1.52	H246628	0.44	0.19	3990	28.90	
42.67	44.80	2.13	H246629	0.33	0.27	2830	17.70	
44.80	45.72	0.92	H246630	0.37	0.13	1770	26.30	
45.72	47.24	1.52	H246631	0.19	0.16	1375	13.20	
47.24	50.29	3.05	H246632	0.48	1.12	2100	93.40	
50.29	53.34	3.05	H246633	0.62	0.65	2680	61.30	
53.34	59.44	6.10	H246635	4.76	14.80	10050	998.00	
59.44	60.05	0.61	H246636	2.28	33.40	10050	865.00	
60.96	65.84	4.88	H246637	1.65	4.16	10050	384.00	
65.84	66.75	0.91	H246638	1.73	10.10	6310	354.00	
66.75	67.06	0.31	H246640	2.67	6.16	10050	439.00	
67.06	68.58	1.52	H246641	0.55	1.23	7130	244.00	
70.10	71.63	1.53	H246642	2.32	1.12	10050	535.00	
71.63	73.76	2.13	H246643	1.59	3.89	10050	236.00	
73.76	74.98	1.22	H246644	0.28	4.42	10050	1085.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
74.98	76.20	1.22	H246645	0.21	4.35	10050	187.00	
76.20	77.32	1.12	H246646	0.14	1.09	10050	21.10	
77.32	79.25	1.93	H246647	0.31	4.75	10050	96.90	
79.25	80.77	1.52	H246648	0.10	1.88	10050	41.40	
80.77	82.30	1.53	H246649	0.06	0.75	10050	27.50	
82.30	83.52	1.22	H246650	0.09	1.10	10050	16.45	
-	-	-	H246618	15.45	9.07	1595	344.00	Standard
-	-	-	H246622	0.10	0.11	221	19.95	Blank
-	-	-	H246634	14.50	7.17	424	0.73	Standard
-	-	-	H246639	0.03	0.31	158	7.48	Blank

RAU PROJECT

ZONE: Tiger
SECTION: 9+600 NW

HOLE: Rau-08-17
CLAIM: Rau-97F

Easting	Northing	Elev.	Depth (m)
528638	7118701	1360	150.27

Contractor: Superior Diamond Drilling
Drill:

Core size: BTW
Casing depth: 3.04 (m) out

Drilling dates:

Logged by:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	050°	-50°	compass				
149.96	050°	-42°	icefield				

Target: Scissor hole on RAU-08-01

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	35.97	35.97	LST	
35.97	50.28	14.31	MBL	
50.28	50.60	0.32	VOL	
50.60	66.80	16.20	LST	Altered
66.80	80.16	13.36	DOL	Altered
80.16	150.27	70.11	LST	Altered

SAMPLES

Numbers: H246651-H246662

Total: 12
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: RAU-08-17

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	35.97	35.97	LST	FOS	BN	BD	50		w													Medium grey weakly dolomitized limestone with thin Ca veins cutting the unit at 65 deg to CA. Banding in the unit occurs at 50 deg to Ca. Trace crinoid stem fragments occur scattered throughout.
																						24.00-35.97 m: Banding steepens to 65 deg to CA.
35.97	50.28	14.31	MBL		BN	BD	70			w												Light to medium grey marble with banding occurring at 70 deg to CA. Sericite stringer bands occur at 15 deg to CA.
						VN	15															
50.28	50.60	0.32	VOL		FO	FO	70															Very fissile strongly altered yellowy tan volcaniclastic foliation running at 70 deg to CA.
50.60	66.80	16.20	LST	ALT	BN	BD	70															Weakly dolomite altered fluid collapse brecciated limestone with stylolitic bands running at 70 deg to CA. No mineralization is present in the unit.
66.80	80.16	13.36	DOL	ALT		CN	40						SID	ms								Coarse grained dolomite siderite vein. Yellowy cream and greyish white dolomite with dark slightly reddish brown siderite specifically coating fractures. Upper and lower contacts are sharp at 40 and 80 deg to CA.
						CN	80															
80.16	150.27	70.11	LST	ALT	BX				w													Medium grey strongly brecciated weakly dolomitized limestone with angular to subangular, 0.2-3 cm clasts. The breccia in zones is very clean and 'fresh' looking and matrix supported. Minor camo mottled textures occur in less brecciated zones.
													SID	ms								103.85-106.80 m: Dark chocolate brown medium grained siderite-dolomite vein. Quite irregular with clasts of limestone within.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
					CR																	106.80-110.98 m: Finely crackle brecciated moderately dolomitized limestone. No mineralization occurs.
					BX																	110.98-122.05 m: The limestone becomes more obviously fluid collapse brecciated.
					BX	VN	30															122.05-135.84 m: Quite strongly camo-mottled and fluid collapse brecciaed limestone with 1-2 cm thick dolomite veins cutting at 30 deg to the CA.
				ALT																		135.84-137.20 m: ~1.5 m zone of yellowish cream alteration of the limestone.
						VN	20								l							140.36-141.28 m: Intensely disseminated pyrite in associated with a series of quartz veins running at 20 deg to CA.
									m													141.28-150.27 m: Back into brecciated moderately dolomitized limestone.
																						150.27 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-17

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.05	3.05	0.34	11	0.10	3			
3.05	4.57	1.52	1.52	100	1.06	70			
4.57	10.67	6.10	6.08	100	2.56	42			
10.67	13.72	3.05	2.96	97	2.87	94			
13.72	16.76	3.04	2.96	97	2.96	97			
16.76	18.29	1.53	1.53	100	1.79	117			
18.29	21.34	3.05	3.05	100	2.90	95			
21.34	24.38	3.04	3.04	100	2.32	76			
24.38	26.21	1.83	1.52	83	0.90	49			
26.21	28.96	2.75	2.75	100	2.40	87			
28.96	32.00	3.04	3.05	100	2.82	93			
32.00	35.05	3.05	3.05	100	2.85	93			
35.05	38.10	3.05	2.98	98	2.75	90			
38.10	41.15	3.05	2.99	98	2.95	97			
41.15	44.20	3.05	2.91	95	2.72	89			
44.20	45.72	1.52	1.39	91	0.25	16			
45.72	48.77	3.05	3.02	99	1.49	49			
48.77	50.29	1.52	1.18	78	0.57	38			
50.29	53.34	3.05	2.57	84	1.84	60			
53.34	56.39	3.05	2.95	97	2.48	81			
56.39	59.44	3.05	3.05	100	2.69	88			
59.44	62.48	3.04	3.04	100	2.60	86			
62.48	65.53	3.05	3.05	100	2.74	90			
65.53	68.58	3.05	3.50	115	2.52	83			
68.58	71.63	3.05	3.00	98	2.70	89			
71.63	74.68	3.05	3.00	98	2.82	92			
74.68	76.20	1.52	1.52	100	1.02	67			
76.20	79.25	3.05	3.04	100	2.84	93			
79.25	82.30	3.05	2.92	96	2.48	81			
82.30	85.34	3.04	3.02	99	1.80	59			
85.34	88.39	3.05	3.05	100	3.05	100			
88.39	91.44	3.05	2.93	96	2.72	89			
91.44	94.49	3.05	3.05	100	2.45	80			
94.49	97.54	3.05	2.98	98	2.64	87			
97.54	100.58	3.04	3.02	99	2.28	75			
100.58	103.63	3.05	2.98	98	2.29	75			
103.63	106.68	3.05	2.83	93	2.28	75			
106.68	109.73	3.05	2.74	90	2.40	79			
109.73	112.78	3.05	2.96	97	2.20	72			
112.78	115.85	3.07	3.07	100	2.99	97			
115.85	118.87	3.02	3.02	100	2.96	98			
118.87	121.92	3.05	3.05	100	2.19	72			
121.92	124.36	2.44	2.44	100	1.44	59			
124.36	126.49	2.13	2.14	100	1.59	75			
126.49	129.54	3.05	3.05	100	3.05	100			
129.54	132.59	3.05	2.90	95	2.78	91			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
132.59	135.64	3.05	3.05	100	2.43	80			
135.64	138.68	3.04	3.04	100	2.68	88			
138.68	141.73	3.05	3.05	100	2.96	97			
141.73	144.78	3.05	3.05	100	2.58	85			
144.78	147.83	3.05	3.00	98	2.23	73			
147.83	150.27	2.44	2.31	95	1.69	69			

SAMPLE LOG

HOLE: RAU-08-17

From (m)	To (m)	Interval (m)	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
57.84	60.84	3.00	H246651	0.01	0.08	21	1.40	
60.84	63.84	3.00	H246652	0.01	0.09	10	1.03	
63.84	66.84	3.00	H246653	0.01	0.07	9	0.76	
66.84	69.84	3.00	H246654	0.04	1.37	50	3.22	
69.84	72.84	3.00	H246655	0.13	5.86	157	9.78	
72.84	74.84	2.00	H246656	0.20	5.96	172	11.95	
74.84	77.23	2.39	H246657	0.16	13.35	308	41.60	
77.23	80.23	3.00	H246658	0.02	4.03	71	4.77	
80.23	83.23	3.00	H246660	0.03	0.29	29	1.89	
140.36	141.36	1.00	H246661	1.21	0.24	2440	89.60	
141.36	144.36	3.00	H246662	0.05	0.08	63	2.13	
-	-	-	H246659	0.01	0.13	<5	0.30	Blank

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-17

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3.05	LST		0.00	
4.57	LST		0.02	
10.67	LST		0.00	
13.72	LST		0.02	
16.76	LST		0.12	
18.29	LST		0.13	
21.34	LST		0.02	
24.38	LST		0.08	
26.21	LST		0.11	
28.96	LST		0.06	
32.00	LST		0.00	
35.05	LST		0.07	
38.10	MBL		0.03	
41.15	MBL		0.01	
44.20	MBL		0.01	
45.72	MBL		0.28	
48.77	MBL		-0.02	
50.29	MBL		-0.05	
53.34	LST	ALT	-0.05	
56.39	LST	ALT	-0.05	
59.44	LST	ALT	0.01	
62.48	LST	ALT	-0.01	
65.53	LST	ALT	2.07	
68.58	DOL	ALT	2.49	
71.63	DOL	ALT	2.34	
74.68	DOL	ALT	2.46	
76.20	DOL	ALT	3.03	
79.25	DOL	ALT	0.98	
82.30	LST	ALT	0.03	
85.34	LST	ALT	0.04	
88.39	LST	ALT	-0.01	
91.44	LST	ALT	0.01	
94.49	LST	ALT	0.03	
97.54	LST	ALT	0.00	
100.58	LST	ALT	0.01	
103.63	LST	ALT	1.66	
106.68	LST	ALT	-0.03	
109.73	LST	ALT	-0.06	
112.78	LST	ALT	-0.04	
115.85	LST	ALT	0.00	
118.87	LST	ALT	-0.05	
121.92	LST	ALT	-0.05	
124.36	LST	ALT	-0.03	
126.49	LST	ALT	-0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
129.54	LST	ALT	-0.01	
132.59	LST	ALT	-0.02	
135.64	LST	ALT	0.01	
138.68	LST	ALT	-0.21	
141.73	LST	ALT	0.05	
144.78	LST	ALT	0.02	
147.83	LST	ALT	0.04	

RAU PROJECT

ZONE: Tiger
SECTION: 10+120 NW

HOLE: Rau-08-18
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528541	7119240	1192	233.78

Contractor: Superior Diamond Drilling
Drill:

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	230°	-60°	compass				
230	230°	-62°	acid				

Core size: BTW
Casing depth: 3.04 (m) in

Drilling dates:

Logged by: M.R.Dumala

Target: down dip extension of Rau-08-0

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	60.46	60.46	LST	Altered
60.46	74.52	14.06	LST	Altered
74.52	116.21	41.69	VOL	Altered
116.21	153.68	37.47	DOL	
153.68	196.64	42.96	VOL	Altered
211.01	233.78	22.77	PY	

SAMPLES

Numbers: H246710-H246800
H246851
Total: 92
Date sent:
Certificate:

COMMENTS

hole terminated in massive pyrite, ran out of rods;
cassing left in; acid test only due to stuck core tube

GEOLOGY LOG

HOLE: RAU-08-18

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	60.46	60.46	LST	ALT	BN	BD	70		m						t			Sp	t			Medium grey moderately dolomitized limestone with strong solution collapse brecciated texture with zones of camo-mottled limestone and stylolitic bands running at 70 deg to CA. Trace fine grained disseminated pyrite occurs throughout.
					BX																	15.95-16.10 m: Zone of more fractured limestone with slight orange-brown alteration stain on fractures.
																						19.63-25.63 m: Predominately camo-mottled dolomitized limestone.
						VN	25															25.63-32.92 m: Mixture of solution collapse breccia and stylolitic banding at 75 deg to CA. Prominent cross cutting fractures and thin veinlets cut the unit at 25 deg to CA.
																						32.92-37.00 m: The solution collapse brecciated texture becomes very prominent.
																						37.00-57.10 m: Begin to pick up fossils in the dolomitized limestone. Coral mound, chain coral, less common crinoid stem fragments.
																						57.10-64.99 m: Begin to get quite pronounced bedding with gritty dolomitized limestone interbedded at 60 deg to CA.
																		Hem	w			59.12-59.16 m: There is a coarse grained calcite vein with a purply-metallic crystal with reddish brown streak (hematite?) Pyrite concentration increasing slightly to weak.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
60.46	74.52	14.06	LST	ALT		BD	80		ms						w			Sp	t			60.46-74.52 m: Coarse grained dolomite veins begin cutting the unit at various orientation, commonly 15 deg to CA, as well as occurring in bands at 80 deg to CA. The textural patterns in the zone with black shaley beds interbanded with coarse grained dolomite slightly resembles the textures of the mineralization in the main zone. Minor orange sphalerite occurs trace overall. Pyrite occurs as fine to medium grained disseminations confined to a banded pattern. at 80 deg to CA.
						VN	15															70.10-74.52 m: Begin to get thin brownish purple interbands of volcaniclastic within the dolomitized limestone and dolomite. Also talc flakes occur scattered throughout the dolomite rich sections.
74.52	116.21	41.69	VOL	ALT	FO	FO	75			f					w							Weakly to strongly sericite altered volcaniclastic with a swaley texture in the zones of alteration. A faint original foliation occurs at 75 deg to CA. Weak fine grained pyrite is disseminated throughout.
															m							84.14 m - sericite alteration increases and by 86.42 m, the pyrite concentration increases to moderate disseminations in less sericite altered zones.
			DOL			VN	80								w							87.10-87.54 m: Coarse grained cream and light grey dolomite vein. Upper contact is sharp at 80 deg to CA. The lower contact is more diffuse. The vein contains only weak pyrite.
										ms					w							87.54-102.32 m: Back into thinly foliated volcaniclastic with moderately strong sericite alteration of the brownish volcaniclastic. Pyrite (weak) occurs as disseminations replacing Ca patches within the unit.
						VN	20															105.22 m: Talc vein cuts the volcaniclastic at 20 deg to CA.
						CN	70															The lower contact of the volcaniclastic is sharp at 70 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
116.21	153.68	37.47	DOL												f	t	w					Mixture of white to light grey medium grained dolomite with medium grey strongly crackled and dolomitized limestone. The dolomite is the dominant lithology in the unit, as the limestone is only present until 121 m. The dolomite contains fair concentrations of scattered talc. Pyrite is fine grained and fairly disseminated while trace arsenopyrite is coarser grained and pyrrhotite weakly occurs in small patches. Late stage dolomite veins cut the mineralization at 10 deg to CA. These veins contain trace pyrrhotite within them.
															40							128.02-128.23 m: Semi-massive very coarse grained section of pyrite with interstitial crack filling of fine grained pyrrhotite.
						VN	30															139.56-140.21 m: A coarse grained quartz vein cuts the cut at 30 deg to CA. This vein appears to cut the Py, but it also contains Py within it.
						VN	10								30							140.99-140.57 m: Two low angle 3-6 cm quartz veins cut a semi-massive zone of pyrite.
															m	w	t					146.30 m: Arsenopyrite concentration increases to weak. It occurs as fine grained euhedral crystals scattered throughout. The pyrite has increased to moderate. Overall the mineralization occurs in more of a disseminated pattern than in bands.
															35							149.25-153.68 m: Semi-massive fine to coarse grained pyrite with dark grey dolomite and dolomitized limestone. A few rubbly zones occur within.
153.68	196.64	42.96	VOL	ALT	FO	FO	70			w					f							Brownish grey volcaniclastic with black gritty fragments within. Weak to fair sericite alteration occurs. Foliation runs at 70 deg to CA. Medium grained white dolomite veins irregularly cut the unit. Pyrite is fairly disseminated and in semi-concentrated bands.
						VN	35								60							162.08-163.40: Semi-massive to massive pyrite. Fine grained with dolomite veins cutting at 35 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															w							175.14 m: Pyrite concentration decreases to weak. At this point the pyrite s very speckles in appearance with wispy patches of creamy yellow brown sericite.
						VN	15															187.50-188.10 m: A thin low angle dolomite vein (0.5 cm thick) cuts the volcaniclastic at 15 deg to CA and has a dark green tinted colour to it.
196.64	211.01	14.37	LST	ALT	CR				m						t							Dark grey, rubbly graphitic limestone transitioning into strongly crackle brecciated moderately dolomitized limestone with trace fine grained disseminated pyrite.
211.01	234.69	23.68	MX												80			Sp	t			Gradual transition into semi-massive and then massive fine to very coarse grained pyrite with trace fine to coarse grained red sphalerite on some fractured surfaces.
																						217.45 m: The rock becomes very rubbly.
																						218.53-218.59 m: Silver coloured mineral (galena?, bismuthanite?). Very soft, scratches easily with thumb nail.
																						233.78 m: E.O.H. - The hole was ended because the drillers ran out of rods. The casing was left in and the hole was extended in Rau-09-18.
																						Beginning of 2009 extension
			MX		MA										80							233.78-234.69 m: Massive pyrite, coarse grained but not showing cubic crystal growth. Coarse grained quartz occurs interstitially between patches of Py, as well as in flood form in the last 75 cm
234.69	238.74	4.05	DOL		CR										f							Medium grey crackle brecciated dolomite. Py occurs as small patches and as fine grained disseminations and stringers. Some of the dolomite has a peachy hue (hematite?, rhochrosite?)
																						235.05-236.49 m: Moderately rubbly zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
238.74	240.69	1.95	MX	MX											30							Semi massive pyrite in a quartz-dolomite host. Red patches (hematite?) ~ 5 cm in size occur scattered throughout. Pyrite is very coarse grained, with the crystals being more platy than euhedral.
240.69	252.39	11.70	MX	MX	MA	FO	30								80							Massive coarse grained pyrite. Appears to be slightly brecciated by quartz stringer veinlets (fracture fill?). A slight foliation occurs at 30 deg to CA. There appears to be two phases of Py, a coarse grained and a later fine grained disseminated phase.
																						241.69-243.72 m: Very rubbly and broken interval.
																						246.13-252.39 m: Very rubbly and broken interval.
252.39	255.12	2.73	MX	RBL	MA										70			Sp	w	Ga		Massive pyrite with some coarse grained sub to euhedral red sphalerite crystals. The pyrite is intermixed with quartz which may either be the host, or is filling fractures and voids. The sphalerite appears closely associated with the calcite. Also trace galena as small crystals.
																						252.82-252.89 m: The pyrite crystals are particularly well formed within this zone.
																						252.82-253.81 m: The core becomes more competent.
																						254.29-254.66 m: Small zone of marble with weak hematite (?) occurring as a peachy red stain within. Weak pyrite occurs in irregular patches concentrated in the darker siltier zones.
255.12	258.33	3.21	LST	ALT	BX	VN	50		s						w							Medium grey mottled strongly dolomitized limestone with a strongly clast supported fluid collapse brecciated texture with Qz/Ca flood. The unit is moderately fractured up. Ca stringer veinlets ~ 1 mm cut the breccia at 50 deg to the CA. Weak pyrite occurs as fine disseminations and small sub-hedral crystals at the end of the interval.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
258.33	260.89	2.56	MX	MX	MA	FO	15								70			Sp	w			Semi-massive to massive Py with thin Qz +/- Ca veinlets cutting mineralization and filling fractures at 15 and 40-45 deg to CA. There is a slight foliation at 15 deg to CA, highlighted by the alignment of the platy Py grains. The pyrite is medium to coarse grained. Red sphalerite occurs associated with the Ca veinlets.
						VN	15															
						VN	45															
260.89	265.09	4.20	MBL		CR	FR	15								w							Medium grey marble with occasional very dark grey silty horizons. There is a crackle texture that is generally aligned at 15 and 50 deg to CA. Two phases of Ca veining occur. Veins running at 40 deg are cut by veins running at 10 deg to CA. Pyrite occurs as isolated subhedral crystals as well as fracture fill.
						FR	50															
						VN	40															
						VN	10															
265.09	268.08	2.99	MX	MX	MA	FR	40															Massive pyrite zone. The pyrite is medium to coarse grained, subhedral and closely packed. Infill between pyrite grains consists of coarse grained Qz and Ca. Very thin fractures run at 40 deg to CA and may be representing a foliation.
																						267.44-267.57 m: There is a small zone of medium grey marble. The lower 20 cm shows a gradual decrease in the amount of Py with an increase in the concentration of marble.
268.08	271.12	3.04	DOL	MX	CR	FR	45								ms							Medium grey dolomite with zones of concentrated packed coarse grained pyrite crystals. The dolomite shows evidence of brecciation, but since that event some recrystallization has occurred as it looks quite washed out. There is also faint evidence of healed fractures.
						FR	20															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
271.12	273.04	1.92	MX	MX	FO	FO	15															Zone of massive pyrite. Pyrite occurs as tightly packed medium grained crystals. Fine grained crystalline pyrite is concentrated into zones 5-10 cm thick. Healed fractures and a slight foliation occurs at 15 deg to the Ca. Space between pyrite grains is filled with dolomitized limestone.
273.04	275.59	2.55	MBL			VN	30						Hem	w	m							Light grey marble with calcite veins running at 30, 45 and 70 deg to CA. Pyrite occurs as patches of packed medium grained crystals in isolated areas. Hematite occurs as a reddish pink stain in some of the calcite veins.
						VN	45															
						VN	70															
275.59	303.99	28.40	LST	ALT	BX	VN	30		s						f							Gradual contact into a dolomitized limestone. Medium grey in colour with fluid collapse breccia texture. Pyrite occurs occasionally as coarse grained crystals packed into patches and along thin fractures. In some cases the brecciation displaces calcite veinlets, suggesting it was a later event.
																						290.59-291.84 m: Rubble zone (fault ?). Sandy to cobbly nature , with weak disseminated pyrite.
						FR	40		m						w							295.69-303.99 m: The breccia becomes more of a mosaic style breccia. Clasts are angular. Pyrite occurs as medium grained subhedral crystals. Here is a faint orientation to the breccia at 40 deg to CA. Thin Ca veinlets cut the breccia at 30 deg to CA..
						VN	30															
303.99	322.93	18.94	DOL		MO	VN	40		m													Transition into a less brecciated more mottled moderately dolomitized limestone. Ca veins cut at 5 and 40 deg to CA. No visible mineralization occurs within the unit.
						BD	50															321.67-322.93 m: The limestone now have a banded texture that runs at 50 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						322.93 m: E.O.H. This hole was an extension of Rau-08-18.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-08-18

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.96	3.96	0.44	11		0			
3.96	6.10	2.14	1.62	76	0.74	35			
6.10	7.62	1.52	1.52	100	0.45	30			
7.62	10.67	3.05	2.81	92	1.69	55			
10.67	13.72	3.05	2.57	84	1.90	62			
13.72	16.46	2.74	2.74	100	2.02	74			
16.46	18.29	1.83	1.83	100	1.59	87			
18.29	21.34	3.05	2.90	95	2.36	77			
21.34	24.38	3.04	2.65	87	2.13	70			
24.38	27.43	3.05	3.05	100	2.85	93			
27.43	30.48	3.05	3.05	100	2.82	92			
30.48	32.92	2.44	2.18	89	1.96	80			
32.92	35.05	2.13	2.09	98	1.94	91			
35.05	37.80	2.75	2.68	97	2.29	83			
37.80	39.62	1.82	1.49	82	1.39	76			
39.62	41.76	2.14	2.14	100	2.42	113			
41.76	44.20	2.44	2.05	84	1.74	71			
44.20	45.72	1.52	1.43	94	0.93	61			
45.72	48.77	3.05	2.77	91	2.37	78			
48.77	51.82	3.05	3.05	100	2.79	91			
51.82	53.34	1.52	1.52	100	1.62	107			
53.34	54.86	1.52	1.52	100	1.51	99			
54.86	57.91	3.05	3.05	100	2.85	93			
57.91	60.96	3.05	3.01	99	2.62	86			
60.96	64.01	3.05	3.05	100	2.61	86			
64.01	67.06	3.05	3.05	100	2.62	86			
67.06	70.10	3.04	3.03	100	2.83	93			
70.10	73.15	3.05	3.04	100	2.29	75			
73.15	76.20	3.05	3.05	100	2.78	91			
76.20	79.25	3.05	3.06	100	2.62	86			
79.25	82.30	3.05	3.05	100	2.68	88			
82.30	85.34	3.04	3.05	100	2.97	98			
85.34	88.39	3.05	2.96	97	2.33	76			
88.39	91.44	3.05	3.05	100	2.65	87			
91.44	94.49	3.05	3.05	100	2.69	88			
94.49	99.36	4.87	3.05	63	2.70	55			
99.36	102.11	2.75	1.84	67	1.02	37			
102.11	105.16	3.05	2.97	97	2.48	81			
105.16	108.20	3.04	2.93	96	2.60	86			
108.20	111.25	3.05	3.00	98	2.73	90			
111.25	114.30	3.05	3.05	100	2.93	96			
114.30	117.04	2.74	2.59	95	2.08	76			
117.04	120.09	3.05	3.05	100	2.58	85			
120.09	121.92	1.83	2.06	113	1.90	104			
121.92	124.97	3.05	3.05	100	2.83	93			
124.97	128.02	3.05	2.97	97	2.97	97			

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
128.02	131.06	3.04	3.05	100	2.44	80			
131.06	134.11	3.05	3.05	100	2.58	85			
134.11	137.16	3.05	3.05	100	2.80	92			
137.16	140.21	3.05	3.05	100	2.83	93			
140.21	143.26	3.05	3.00	98	2.91	95			
143.26	146.30	3.04	3.04	100	3.02	99			
146.30	149.35	3.05	3.05	100	2.99	98			
149.35	152.40	3.05	2.95	97	2.90	95			
152.40	155.45	3.05	2.96	97	2.77	91			
155.45	158.50	3.05	2.04	67	2.02	66			
158.50	161.54	3.04	3.05	100	2.57	85			
161.54	164.59	3.05	3.05	100	2.62	86			
164.59	167.64	3.05	3.05	100	2.36	77			
167.64	170.69	3.05	2.90	95	2.58	85			
170.69	173.74	3.05	3.03	99	2.21	72			
173.74	176.78	3.04	3.05	100	2.90	95			
176.78	179.83	3.05	2.89	95	2.84	93			
179.83	182.88	3.05	3.05	100	3.05	100			
182.88	185.93	3.05	3.05	100	2.91	95			
185.93	188.98	3.05	3.05	100	2.95	97			
188.98	192.02	3.04	3.02	99	2.94	97			
192.02	196.60	4.58	4.59	100	3.92	86			
196.60	198.12	1.52	1.51	99	0.95	62			
198.12	200.86	2.74	2.62	96	2.39	87			
200.86	202.69	1.83	1.83	100	1.77	97			
202.69	205.74	3.05	3.01	99	2.37	78			
205.74	208.79	3.05	3.03	99	2.71	89			
208.79	211.84	3.05	3.02	99	2.79	91			
211.84	214.88	3.04	2.83	93	2.22	73			
214.88	217.93	3.05	3.05	100	2.31	76			
217.93	220.98	3.05	3.05	100	2.70	89			
220.98	224.03	3.05	3.02	99	2.75	90			
224.03	227.08	3.05	3.05	100	2.26	74			
227.08	228.90	1.82	1.74	96	0.16	9			
228.90	230.12	1.22	0.95	78	0.22	18			
230.12	231.65	1.53	1.41	92	0.25	16			
231.65	233.78	2.13	2.13	100	1.48	69			
233.78	236.83	3.05	n/a	n/a	n/a	n/a	n/a	n/a	Transition zone from 2008-2009 drilling
236.83	239.88	3.05	3.05	100	2.62	86	s	fr	
239.88	243.08	3.20	3.20	100	1.58	49	s	fr	
243.08	246.13	3.05	3.05	100	1.85	61	s	fr	
246.13	249.02	2.89	2.89	100	0.00	0	s	fr	
249.02	250.39	1.37	1.37	100	0.22	16	s	fr	
250.39	253.44	3.05	3.05	100	0.32	10	s	fr	
253.44	254.66	1.22	0.08	7	0.45	37	s	fr	
254.66	255.57	0.91	0.87	96	0.49	54	s	fr	
255.57	257.10	1.53	1.43	93	0.20	13	s	fr	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
257.10	259.23	2.13	2.13	100	0.26	12	ms	fr	
259.23	261.97	2.74	2.74	100	0.89	32	s	fr	
261.97	264.72	2.75	2.75	100	2.09	76	ms	fr	
264.72	267.77	3.05	3.05	100	3.01	99	s	fr	
267.77	270.81	3.04	3.04	100	2.85	94	s	fr	
270.81	273.86	3.05	3.03	99	2.92	96	s	fr	
273.86	276.91	3.05	2.93	96	2.71	89	ms	fr	
276.91	279.96	3.05	3.05	100	2.54	83	ms	fr	
279.96	283.01	3.05	3.05	100	2.89	95	ms	fr	
283.01	286.05	3.04	3.04	100	2.73	90	ms	fr	
286.05	289.10	3.05	3.02	99	2.81	92	ms	fr	
289.10	291.54	2.44	1.97	81	0.85	35	ms	fr	
291.54	294.59	3.05	3.05	100	2.41	79	ms	fr	3.46? Recovery cuttings?
294.59	296.72	2.13	2.13	100	1.75	82	ms	fr	2.64?
296.72	299.77	3.05	3.03	99	2.31	76	ms	fr	
299.77	302.51	2.74	2.74	100	1.39	51	ms	fr	
302.51	304.65	2.14	2.05	96	1.38	64	ms	fr	
304.65	306.17	1.52	1.49	98	1.18	78	ms	fr	
306.17	309.22	3.05	3.00	98	2.80	92	ms	fr	
309.22	311.81	2.59	2.59	100	1.85	71	ms	fr	
311.81	312.88	1.07	1.05	98	0.45	42	ms	fr	
312.88	315.31	2.43	2.43	100	1.53	63	ms	fr	
315.31	317.45	2.14	2.14	100	1.72	80	ms	fr	
317.45	320.19	2.74	2.63	96	1.55	57	ms	fr	
320.19	322.93	2.74	2.74	100	2.11	77	ms	fr	

SAMPLE LOG

HOLE: RAU-08-18

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.96	6.10	2.14			H246710			0.02	0.04	13	0.71	
6.10	7.62	1.52			H246711			0.01	0.04	7	0.18	
7.62	10.67	3.05			H246712			0.01	0.03	15	0.30	
10.67	13.72	3.05			H246713			0.02	0.08	17	98.90	
13.72	16.72	3.00			H246714			0.02	0.06	12	2.70	
16.72	19.72	3.00			H246715			0.01	0.39	16	20.70	
19.72	22.72	3.00			H246716			0.02	0.16	9	2.83	
22.72	25.72	3.00			H246718			0.01	0.07	8	0.66	
25.72	28.72	3.00			H246719			0.01	0.03	3	0.16	
28.72	31.72	3.00			H246720			0.01	0.02	3	0.06	
31.72	34.72	3.00			H246721			0.01	0.02	12	0.06	
34.72	37.72	3.00			H246722			0.01	0.02	13	0.08	
37.72	40.72	3.00			H246723			0.01	0.02	8	0.13	
40.72	43.72	3.00			H246724			0.02	0.04	9	1.44	
43.72	46.72	3.00			H246725			0.02	0.05	14	1.19	
46.72	49.72	3.00			H246726			0.02	0.05	12	1.24	
49.72	52.72	3.00			H246727			0.02	0.09	22	0.05	
52.72	55.72	3.00			H246729			0.01	0.05	13	0.62	
55.72	58.72	3.00			H246730			0.33	0.12	40	49.20	
58.72	61.72	3.00			H246731			1.56	0.48	56	195.50	
61.72	64.72	3.00			H246732			2.04	0.17	48	199.00	
64.72	67.20	2.48			H246733			2.91	0.13	86	249.00	
67.20	69.20	2.00			H246734			0.57	0.12	50	295.00	
69.20	72.20	3.00			H246735			0.27	0.17	101	413.00	
72.20	74.53	2.33			H246736			0.21	0.19	136	335.00	
74.53	77.53	3.00			H246737			0.05	0.21	16	6.89	
77.53	80.53	3.00			H246738			0.02	0.25	3	4.06	
80.53	83.53	3.00			H246739			0.39	0.29	6	1.44	
83.53	86.53	3.00			H246740			0.03	0.19	14	4.29	
86.53	89.53	3.00			H246741			0.09	0.15	97	7.47	
89.53	92.53	3.00			H246742			0.02	0.13	42	1.92	
92.53	95.53	3.00			H246744			0.01	0.14	78	1.86	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
95.53	97.54	2.01			H246745			0.02	0.17	64	15.20	
97.54	100.54	3.00			H246746			0.05	0.31	41	4.12	
100.54	102.72	2.18			H246747			0.03	0.26	83	4.96	
102.72	105.72	3.00			H246748			0.02	0.08	112	16.25	
105.72	108.72	3.00			H246749			0.02	0.09	142	915.00	
108.72	111.72	3.00			H246750			0.03	0.16	92	36.70	
111.72	114.72	3.00			H246751			0.02	0.23	97	56.60	
114.72	117.04	2.32			H246752			0.01	0.23	108	15.20	
117.04	119.04	2.00			H246754			0.01	0.22	489	2.20	
119.04	121.04	2.00			H246755			0.01	0.07	98	4.47	
121.04	124.04	3.00			H246756			0.01	0.21	82	29.00	
124.04	126.04	2.00			H246757			0.01	0.12	46	12.20	
126.04	128.02	1.98			H246758			0.01	0.08	33	2.61	
128.02	131.02	3.00			H246759			0.24	0.24	534	254.00	
131.02	134.02	3.00			H246760			0.15	0.15	4270	125.50	
134.02	137.02	3.00			H246761			1.96	0.09	3420	423.00	
137.02	140.02	3.00			H246762			0.17	0.15	742	1920.00	
140.02	143.02	3.00			H246763			0.66	0.10	938	335.00	
143.02	146.02	3.00			H246764			0.19	0.12	919	395.00	
146.02	149.02	3.00			H246765			0.30	0.16	8050	756.00	
149.02	152.02	3.00			H246766			0.21	2.55	1780	341.00	
152.02	155.02	3.00			H246768			0.07	0.89	1200	462.00	
155.02	158.02	3.00			H246769			0.09	0.51	1365	456.00	
158.02	161.02	3.00			H246770			0.04	0.14	287	67.90	
161.02	163.38	2.36			H246771			0.03	0.90	664	124.50	
163.38	166.34	2.96			H246772			0.05	0.14	223	186.50	
166.34	169.34	3.00			H246774			0.04	0.12	296	468.00	
169.34	172.36	3.02			H246775			0.03	0.07	81	13.45	
172.36	175.36	3.00			H246776			0.02	0.07	61	45.30	
175.36	178.36	3.00			H246777			0.01	0.03	47	146.00	
178.36	181.36	3.00			H246778			0.01	0.29	30	271.00	
181.36	184.36	3.00			H246779			0.01	0.02	9	25.70	
184.36	187.36	3.00			H246780			0.01	0.07	3	2.03	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
187.36	190.36	3.00			H246782			0.01	0.09	7	0.66	
190.36	193.36	3.00			H246783			0.01	0.11	10	1.08	
193.36	196.23	2.87			H246784			0.02	0.05	40	0.94	
196.23	198.23	2.00			H246785			0.11	0.94	114	0.76	
198.23	201.23	3.00			H246786			0.01	0.07	10	0.33	
201.23	204.23	3.00			H246787			0.02	0.95	17	0.28	
204.23	207.23	3.00			H246788			0.01	0.19	16	0.28	
207.23	210.01	2.78			H246789			0.01	0.27	46	2.05	
210.01	211.01	1.00			H246790			0.01	0.20	190	43.80	
211.01	213.01	2.00			H246792			0.04	0.79	1385	488.00	
213.01	216.01	3.00			H246793			0.10	8.13	2520	500.00	
216.01	219.01	3.00			H246794			0.10	16.70	3430	4450.00	
219.01	222.01	3.00			H246795			0.21	43.20	4440	851.00	
222.01	225.01	3.00			H246796			0.10	22.50	3790	450.00	
225.01	228.01	3.00			H246797			0.12	20.80	3340	353.00	
228.01	230.12	2.11			H246798			0.10	36.30	3420	406.00	
230.12	231.65	1.53			H246800			0.09	16.05	3290	428.00	
231.65	233.78	2.13			H246851			0.20	33.30	3580	663.00	
233.78	236.83	3.05	3.05	100	H246950		5	0.21	32.4	833	1250	Transition from 2008-2009 drilling
236.83	238.74	1.91	1.90	99	H246951		5	0.02	0.52	78	6.91	
238.74	240.69	1.95	0.95	49	H246952		5	0.38	5.14	1190	1930.00	
240.69	243.08	2.39	1.97	82	H246953		5	0.14	14.90	2550	1010.00	
243.08	246.13	3.05	2.91	95	H246955		5	0.13	13.55	2600	330.00	
246.13	249.02	2.89	2.37	82	H246956		5	0.19	13.25	2580	397.00	
249.02	250.59	1.57	1.57	100	H246958		5	0.32	10.70	2500	349.00	
250.59	252.39	1.80	1.62	90	H246959		5	0.36	47.90	2540	646.00	
252.39	255.12	2.73	2.20	81	H246960		5	0.09	66.20	1670	482.00	
255.12	257.10	1.98	1.39	70	H246961		5	0.005	0.46	18	3.84	
257.10	258.33	1.23	0.90	73	H246962		5	0.01	0.83	9	2.24	
258.33	260.89	2.56	2.56	100	H246963		5	0.14	239.00	1295	816.00	
260.89	262.69	1.80	1.80	100	H246965		5	0.02	11.85	372	46.80	
262.69	265.09	2.40	2.40	100	H246966		5	0.10	0.96	609	106.50	
265.09	268.08	2.99	2.95	99	H246967		5	0.10	12.25	1855	388.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
268.08	271.12	3.04	3.02	99	H246968		5	0.16	2.60	807	98.10	
271.12	273.04	1.92	1.92	100	H246969		5	1.37	1.17	2400	395.00	
273.04	275.59	2.55	2.49	98	H246971		5	0.01	0.13	205	6.22	
275.59	276.91	1.32	1.18	89	H246972		5	0.01	0.04	5	0.44	
276.91	279.45	2.54	2.54	100	H246973		5	0.02	0.11	175	15.10	
279.45	281.59	2.14	2.13	100	H246974		5	0.01	0.76	72	6.58	
281.59	284.59	3.00	3.00	100	H246975		5	0.01	0.13	9	0.64	
284.59	287.59	3.00	3.00	100	H246976		5	0.01	0.11	11	0.42	
287.59	290.59	3.00	2.97	99	H246977		5	0.01	0.09	6	0.37	
290.59	291.84	1.25	0.70	56	H246978		5	0.02	11.10	151	37.80	
291.84	293.89	2.05	2.05	100	H246979		5	0.02	0.57	33	5.28	
293.89	295.69	1.80	1.51	84	H246980		5	0.05	0.19	324	30.80	
295.69	298.59	2.90	2.90	100	H246982		5	0.01	0.10	21	1.94	
298.59	301.59	3.00	2.76	92	H246983		5	0.01	0.23	16	1.44	
-	-	-			H246717		-	13.50	9.23	500	0.36	Standard
-	-	-			H246728		-	0.01	0.01	6	0.05	Blank
-	-	-			H246743		-	0.01	0.01	11	0.30	Blank
-	-	-			H246753		-	14.35	7.33	415	0.17	Standard
-	-	-			H246767		-	0.04	0.03	85	14.05	Blank
-	-	-			H246773		-	15.05	7.53	515	0.24	Standard
-	-	-			H246781		-	<0.01	<0.01	5	0.73	Blank
-	-	-			H246791		-	14.55	6.94	494	0.18	Standard
-	-	-			H246799		-	<0.01	0.86	61	12.25	Blank
-	-	-			H246954		5	<0.01	0.84	5840	97.5	Standard R-1
246.13	249.02	2.89	2.37	82	H246957		5	0.23	9.51	2680	414.00	Duplicate
-	-	-			H246964		5	5.71	0.71	5.02%	481.00	Standard R-1
-	-	-			H246970		5	<0.01	0.20	123	10.65	Blank
-	-	-			H246981		5	<0.01	0.05	29	0.04	Blank

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-08-18

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
6.10	LST	ALT	0.02	
7.62	LST	ALT	-0.02	
10.67	LST	ALT	0.05	
13.72	LST	ALT	-0.03	
16.46	LST	ALT	0.03	
18.29	LST	ALT	0.03	
21.34	LST	ALT	0.00	
24.38	LST	ALT	0.00	
27.43	LST	ALT	0.00	
30.48	LST	ALT	0.02	
32.92	LST	ALT	0.00	
35.05	LST	ALT	0.01	
37.80	LST	ALT	0.03	
39.62	LST	ALT	0.00	
41.76	LST	ALT	0.04	
44.20	LST	ALT	0.01	
45.72	LST	ALT	-0.02	
48.77	LST	ALT	0.02	
51.82	LST	ALT	0.03	
53.34	LST	ALT	0.00	
54.86	LST	ALT	3.05	
57.91	LST	ALT	4.30	
60.96	LST	ALT	6.18	
64.01	LST	ALT	14.10	
67.06	LST	ALT	4.04	
70.10	LST	ALT	6.43	
73.15	LST	ALT	4.47	
76.20	VOL	ALT	18.80	
79.25	VOL	ALT	11.60	
82.30	VOL	ALT	10.50	
85.34	VOL	ALT	3.95	
88.39	VOL	ALT	1.61	
91.44	VOL	ALT	1.99	
94.49	VOL	ALT	1.29	
99.36	VOL	ALT	0.14	
102.11	VOL	ALT	1.14	
105.16	VOL	ALT	1.35	
108.20	VOL	ALT	0.59	
111.25	VOL	ALT	4.10	
114.30	VOL	ALT	11.80	
117.04	DOL		11.40	
120.09	DOL		0.57	
121.92	DOL		4.39	
124.97	DOL		6.84	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
128.02	DOL		3.52	
131.06	DOL		10.30	
134.11	DOL		1.75	
137.16	DOL		3.74	
140.21	DOL		0.85	
143.26	DOL		1.69	
146.30	DOL		1.89	
149.35	DOL		0.16	
152.40	DOL		0.03	
155.45	VOL	ALT	0.11	
158.50	VOL	ALT	0.44	
161.54	VOL	ALT	0.15	
164.59	VOL	ALT	0.08	
167.64	VOL	ALT	0.80	
170.69	VOL	ALT	0.20	
173.74	VOL	ALT	1.55	
176.78	VOL	ALT	3.64	
179.83	VOL	ALT	4.22	
182.88	VOL	ALT	4.05	
185.93	VOL	ALT	2.54	
188.98	VOL	ALT	3.91	
192.02	VOL	ALT	2.96	
196.60	VOL	ALT	-0.03	
198.12	PY		-0.07	
200.86	PY		0.06	
202.69	PY		0.04	
205.74	PY		0.11	
208.79	PY		0.15	
211.84	PY		0.08	
214.88	PY		0.07	
217.93	PY		0.04	
220.98	PY		0.08	
224.03	PY		0.06	
227.08	PY		0.09	
228.90	PY		0.15	
230.12	PY		0.08	
231.65	PY		0.09	

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-19
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528343.1	7119314	1354.5	118.26

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass	72.54	227.3	-59.6	Ranger
26.82	227.9	-59	Ranger	87.78	227.4	-60.1	Ranger
42.06	227.8	-58.8	Ranger	103.02	225.7	-60.7	Ranger
57.3	227.4	-59.1	Ranger	118.26	226.5	-60.4	Ranger

Core size: BTW
Casing depth: 7.62 (m) out

Drilling dates: June 13th - 17th, 2009

Logged by: K. Jessen

Target: Oxide zone, NW of Rau-08-16

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.57	4.57	OVB	
4.57	41.91	37.34	LST	
41.91	53.95	12.04	OX	clay rich
53.95	56.39	2.44	OX	green, altered
56.39	73.15	16.76	OX	clay rich
73.15	85.34	12.19	OX	rubbly
85.34	108.20	22.86	LST	
108.20	118.26	10.06	MBL	

SAMPLES

Numbers: H246802-H246837

Total: 36
Date sent: June 20, 2009
Certificate: VA09063053, VA09068430

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-19

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	4.57	4.57	OVB																			
4.57	7.25	2.68	LST	RBL																		Light grey LST, dominantly rubble
7.25	23.16	15.91	LST	FOS	BN	BD	30					m										Light grey fossiliferous limestone, with crinoid stem fragments. Fiant banding runs at 30 deg to CA.
						VN	40															9.19-9.45 m: Qz-Ca vein
																						9.45-11.05 m: Fluid altered zone. Core is very fractured with frequent rubbly/clay zones. Oxidation mainly along fractures.
23.16	41.91	18.75	LST	FOS	CR	BD	30															Medium grey limestone, crackled by Ca veinlets, some areas where banding is preserved it runs at 30 deg to CA. Weak fine grained disseminated pyrite.
															w							27.90-38.52 m: begin to see medium grained Py, rusty coloured, and weathered out completely in some areas. Occasional rubbly, clay-altered zones (2-3 cm wide).
																						30.63 m: clay altered zones increase in frequency and intensity. Gouge zones? Clay altered matrix of breccia? Clay zones are 2-12 cm wide and contain limestone clasts.
41.91	53.95	12.04	OX	CLY	MA																	Highly oxidized zone with intermittent sandy zones. No solid rock.
																						41.91-48.59 m: yellowy-brown colour. (COLOUR: 2.5 YR 4/6 - dark red.)
																						48.59-53.40 m: reddish-brown colour. (COLOUR: 2.5 YR 3/3 - dark reddish brown.)
																						53.40-53.95 m: brownish-grey colour. The sandy areas are coarse grained with some small rock fragments.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
53.95	56.39	2.44	OX	ALT	BX							ms										Pale greenish grey to pale yellow, oxidized breccia? Possible relict brecciation texture, but core is very altered so it is difficult to be certain. Core appears solid, but fractures very easily. Non-calcareous. Last 5 cm of interval transitions back to reddish-brown colour. No visible sulphide.
56.39	73.15	16.76	OX	CLY	MA							I										Dark reddish brown oxide. Colour is uniform, very difficult to distinguish relict textures. Non-calcareous. The unit has quite purpleish tones to it. Also the material is quite competent as opposed to gritty.
																						56.39-59.44 m: core is more solid than in the rest of the interval, still mostly competent. Core is mostly fine to coarse grained sand mixed with clay. Either appears as rubble or in areas that look like solid core, but that crumble at a touch. Rare, 10-20 cm long pieces that are more solid than the surrounding rubble.
																						59.44-60.20 m: orangey-red (COLOUR: 2.5 YR 5/6 - Red).
																						60.20-61.72 m: grey-brown.
																						61.72-62.48 m: yellowy-brown. Faint banding occurs at 85 deg to CA.
																						62.48-63.25 m: yellowy-brown.
																						63.25-64.31 m: mix of yellowy-brown and reddish brown with light grey-white clay on some fractured surfaces. (COLOUR 7.5YR 6/8 - reddish yellow).
																						64.31-71.63 m: dark red-brown. (COLOUR: 5YR 5/6 - yellowish red).
																						71.63-73.15 m: orangey-brown. (COLOUR 2.5 YR 4/3 - reddish brown).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
73.15	85.34	12.19	OX	RBL								I										Sand to rubble oxide. Rock fragments up to 5 cm long, commonly 0.5-2 cm long. Rubble ranges from yellowy-brown to dark red-brown. Different colours are jumbled together. Larger pieces of rock have open vug spaces and rarely show a breccia-like texture. (COLOUR: 2.5 YR 4/3 - reddish brown).
85.34	108.20	22.86	LST	OX	BN							s			m							Recrystallized, oxidized fine to medium grained dolomitized limestone with intergrown with fine to medium grained Py. Core is competent. Frequent vug spaces where sulphides have been weathered out. Oxidized to an orangey-brown colour. Frequent rubble zones with poor recovery.
																						101.80-108.20 m: core is stained red, hematite?
108.20	118.26	10.06	LST	ALT	BN	BD	45		f				MBL	m	t							Interbanded light grey limestone and mildly sericite altered marble. Trace Py blebs in marble, and occasional criniod fossils in LST bands. Minor oxidation along fractures.
																						E.O.H. 118.26 m.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-19

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.05	3.05	0.10	3	0.00	0	N/A	HW	
3.05	3.96	0.91	0.12	13	0.00	0	N/A	HW	
3.96	4.57	0.61	0.00	0	0.00	0	N/A	N/A	
4.57	4.88	0.31	0.07	23	0.00	0	N/A	MW	
4.88	5.49	0.61	0.26	43	0.00	0	MS	SW	
5.49	6.10	0.61	0.55	90	0.00	0	MS	SW	
6.10	6.40	0.30	0.30	100	0.00	0	MS	SW	
6.40	7.01	0.61	0.32	52	0.00	0	MS	SW	
7.01	7.62	0.61	0.57	93	0.10	16	MS	SW	
7.62	8.84	1.22	0.92	75	0.22	18	MS	SW	
8.84	9.45	0.61	0.49	80	0.22	36	MS	SW	
9.45	10.06	0.61	0.29	48	0.00	0	MS	SW	
10.06	10.36	0.30	0.30	100	0.00	0	MS	SW	
10.36	10.67	0.31	0.31	100	0.00	0	MS	SW	
10.67	11.89	1.22	1.20	98	0.55	45	MS	SW	
11.89	12.95	1.06	0.45	42	0.00	0	MS	SW	
12.95	13.41	0.46	0.35	76	0.00	0	MS	SW	
13.40	13.72	0.32	0.16	50	0.00	0	MS	SW	
13.72	14.33	0.61	0.47	77	0.11	18	MS	SW	
14.33	15.24	0.91	0.78	86	0.11	12	MS	SW	
15.24	16.46	1.22	1.04	85	0.00	0	MS	SW	
16.46	17.07	0.61	0.53	87	0.00	0	MS	SW	
17.07	18.29	1.22	0.96	79	0.00	0	MS	SW	
18.29	19.51	1.22	0.20	16	0.00	0	MS	SW	
19.51	20.57	1.06	0.99	93	0.43	41	MS	SW	
20.57	21.49	0.92	0.85	92	0.36	39	MS	SW	
21.49	21.79	0.30	0.22	73	0.00	0	MS	SW	
21.79	22.86	1.07	0.81	76	0.00	0	MS	SW	
22.86	23.16	0.30	0.30	100	0.00	0	MS	SW	
23.16	23.77	0.61	0.60	98	0.13	21	MS	SW	
23.77	25.90	2.13	1.76	83	0.88	41	MS	SW	
25.91	27.43	1.52	0.92	61	0.65	43	MS	SW	
27.43	27.74	0.31	0.29	94	0.00	0	MS	SW	
27.74	28.96	1.22	0.99	81	0.25	20	MS	SW	
28.96	30.94	1.98	1.67	84	0.31	16	MS	SW	
30.94	31.39	0.45	0.22	49	0.00	0	MS	SW	
31.39	32.30	0.91	0.61	67	0.00	0	MS	SW	
32.31	33.07	0.76	0.52	68	0.13	17	MS	SW	
33.07	33.83	0.76	0.57	75	0.10	13	MS	SW	
33.83	34.14	0.31	0.21	68	0.11	35	MS	SW	
34.14	34.75	0.61	0.45	74	0.00	0	MS	SW	
34.75	35.36	0.61	0.42	69	0.28	46	MS	SW	
35.36	35.66	0.30	0.26	87	0.00	0	MS	SW	
35.66	35.97	0.31	0.27	87	0.20	65	MS	SW	
35.97	36.27	0.30	0.24	80	0.00	0	MS	SW	
36.27	36.73	0.46	0.29	63	0.11	24	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
36.73	37.19	0.46	0.28	61	0.23	50	MS	SW	
37.19	37.49	0.30	0.22	73	0.00	0	MS	SW	
37.49	37.80	0.31	0.27	87	0.00	0	MS	SW	
37.80	38.10	0.30	0.24	80	0.00	0	MS	SW	
38.10	39.01	0.91	0.69	76	0.22	24	MS	SW	
39.01	39.32	0.31	0.27	87	0.00	0	MS	SW	
39.32	39.62	0.30	0.19	63	0.00	0	MS	SW	
39.62	39.93	0.31	0.15	48	0.00	0	MS	SW	
39.93	40.23	0.30	0.19	63	0.00	0	MS	SW	
40.23	40.69	0.46	0.42	91	0.13	28	MS	SW	
40.69	41.45	0.76	0.54	71	0.00	0	MS	SW	
41.45	41.91	0.46	0.13	28	0.00	0	MS	SW	
41.91	42.37	0.46	0.31	67	0.00	0	EW	EW	
42.37	42.82	0.45	0.25	56	0.00	0	EW	EW	
42.82	43.13	0.31	0.18	58	0.00	0	EW	EW	
43.13	43.59	0.46	0.30	65	0.00	0	EW	EW	
43.59	45.42	1.83	1.51	83	0.00	0	EW	EW	
45.42	46.18	0.76	0.62	82	0.00	0	EW	EW	
46.18	48.77	2.59	2.50	97	0.00	0	EW	EW	
48.77	51.05	2.28	1.92	84	0.00	0	EW	EW	
51.05	52.12	1.07	0.50	47	0.00	0	EW	EW	
52.12	53.50	1.38	1.09	79	0.00	0	EW	EW	
53.50	53.95	0.45	0.32	71	0.00	0	EW	EW	
53.95	56.39	2.44	1.85	76	0.20	8	MS	HW	
56.39	57.91	1.52	1.35	89	0.62	41	EW	EW	
57.91	59.44	1.53	1.31	86	0.68	44	EW	EW	
59.44	60.20	0.76	0.47	62	0.00	0	EW	EW	
60.20	60.96	0.76	0.70	92	0.00	0	EW	EW	
60.96	61.72	0.76	0.31	41	0.00	0	EW	EW	
61.72	62.48	0.76	0.55	72	0.00	0	EW	EW	
62.48	63.45	0.97	0.65	67	0.00	0	EW	EW	
63.25	63.70	0.45	0.45	100	0.00	0	EW	EW	
63.70	64.31	0.61	0.45	74	0.00	0	EW	EW	
64.31	64.92	0.61	0.44	72	0.00	0	EW	EW	
64.92	65.23	0.31	0.22	71	0.00	0	EW	EW	
65.23	65.53	0.30	0.28	93	0.00	0	EW	EW	
65.53	65.99	0.46	0.46	100	0.00	0	EW	EW	
65.99	67.06	1.07	0.78	73	0.00	0	EW	EW	
67.06	68.58	1.52	1.51	99	0.30	20	EW	EW	
68.58	70.10	1.52	0.61	40	0.00	0	EW	EW	
70.10	70.87	0.77	0.72	94	0.00	0	EW	EW	
70.87	71.63	0.76	0.54	71	0.00	0	EW	EW	
71.63	73.15	1.52	0.92	61	0.00	0	EW	EW	
73.15	73.91	0.76	0.58	76	0.00	0	EW	EW	
73.91	74.68	0.77	0.77	100	0.00	0	EW	EW	
74.68	75.74	1.06	0.65	61	0.00	0	EW	EW	
75.74	77.27	1.53	1.16	76	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
77.27	78.49	1.22	0.99	81	0.00	0	EW	EW	
78.49	79.25	0.76	0.64	84	0.00	0	EW	EW	
79.25	80.77	1.52	1.12	74	0.00	0	EW	EW	
80.77	81.84	1.07	0.42	39	0.00	0	EW	EW	
81.84	82.75	0.91	0.46	51	0.00	0	EW	EW	
82.75	83.82	1.07	0.28	26	0.00	0	EW	EW	
83.82	84.12	0.30	0.12	40	0.00	0	EW	EW	
84.12	85.34	1.22	0.33	27	0.00	0	EW	EW	
85.34	85.80	0.46	0.08	17	0.00	0	EW	EW	
85.80	86.87	1.07	0.82	77	0.00	0	W	MW	
86.87	87.78	0.91	0.48	53	0.23	25	W	MW	
87.78	87.93	0.15	0.06	40	0.00	0	W	MW	
87.93	88.54	0.61	0.52	85	0.13	21	W	MW	
88.54	89.46	0.92	0.82	89	0.44	48	W	MW	
89.46	89.61	0.15	0.15	100	0.00	0	W	MW	
89.61	90.37	0.76	0.63	83	0.50	66	W	MW	
90.37	91.29	0.92	0.54	59	0.21	23	W	MW	
91.29	92.05	0.76	0.31	41	0.11	14	W	MW	
92.05	92.51	0.46	0.12	26	0.00	0	W	MW	
92.51	92.81	0.30	0.07	23	0.00	0	W	MW	
92.81	93.27	0.46	0.16	35	0.00	0	W	MW	
93.27	93.57	0.30	0.05	17	0.00	0	W	MW	
93.57	96.32	2.75	0.00	0	0.00	0	W	MW	
96.32	96.62	0.30	0.28	93	0.12	40	W	MW	
96.62	97.38	0.76	0.47	62	0.00	0	W	MW	
97.38	98.14	0.76	0.64	84	0.28	37	W	MW	
98.14	98.76	0.62	0.62	100	0.42	68	W	MW	
98.76	99.82	1.06	0.76	72	0.30	28	W	MW	
99.82	100.58	0.76	0.62	82	0.46	61	W	MW	
100.58	101.35	0.77	0.36	47	0.00	0	W	MW	
101.35	101.80	0.45	0.25	56	0.00	0	W	MW	
101.80	103.63	1.83	0.43	23	0.22	12	W	MW	
103.63	105.16	1.53	1.12	73	0.39	25	W	MW	
105.16	106.68	1.52	0.20	13	0.00	0	W	MW	
106.68	108.20	1.52	0.25	16	0.22	14	W	MW	
108.20	108.51	0.31	0.12	39	0.00	0	W	MW	
108.51	108.66	0.15	0.08	53	0.00	0	W	MW	
108.66	109.27	0.61	0.61	100	0.23	38	W	MW	
109.27	109.73	0.46	0.18	39	0.00	0	W	MW	
109.73	110.03	0.30	0.30	100	0.00	0	W	MW	
110.03	110.49	0.46	0.41	89	0.15	33	W	MW	
110.49	111.10	0.61	0.45	74	0.00	0	W	MW	
111.10	111.86	0.76	0.41	54	0.00	0	W	MW	
111.86	112.47	0.61	0.55	90	0.00	0	W	MW	
112.47	112.93	0.46	0.33	72	0.00	0	W	MW	
112.93	114.30	1.37	1.19	87	0.36	26	W	MW	
114.30	114.91	0.61	0.23	38	0.00	0	W	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
114.91	115.52	0.61	0.61	100	0.00	0	MS	MW	
115.52	115.98	0.46	0.12	26	0.00	0	MS	MW	
115.98	117.96	1.98	1.56	79	0.13	7	MS	MW	
117.96	118.26	0.30	0.30	100	0.00	0	MS	MW	

SAMPLE LOG

HOLE: RAU-09-19

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
36.27	39.01	2.74	1.99	73	H246802	5.0	1	0.01	0.19	99	0.18	
39.01	41.45	2.44	1.76	72	H246803	2.5	1	0.01	0.15	155	0.57	
41.45	43.59	2.14	1.17	55	H246804	1.5	1	0.48	0.74	1890	59.00	
43.59	46.18	2.59	2.13	82	H246805	3.0	1	4.67	1.40	0	483.00	
46.18	48.77	2.59	2.50	97	H246806	3.0	1	7.25	0.54	0	768.00	
48.77	51.05	2.28	1.92	84	H246808	3.5	1	4.17	0.60	0	800.00	
51.05	53.95	2.90	1.91	66	H246809	3.0	1	162.00	8.17	0	3220.00	
53.95	56.39	2.44	1.85	76	H246811	3.0	1	40.40	2.31	0	2190.00	
56.39	59.44	3.05	2.66	87	H246813	5.0	1	2.12	0.64	0	378.00	
59.44	62.48	3.04	2.03	67	H246814	2.5	1	0.74	1.70	0	149.00	
62.48	65.23	2.75	2.21	80	H246815	3.0	1	5.56	2.96	0	790.00	
65.23	68.58	3.35	3.03	90	H246816	5.0	1	7.82	2.67	0	394.00	
68.58	71.63	3.05	1.87	61	H246817	3.0	1	5.24	2.43	0	268.00	
71.63	74.68	3.05	2.27	74	H246818	3.0	1	0.91	2.79	0	178.00	
74.68	77.27	2.59	1.81	70	H246819	3.5	1	0.29	1.22	0	21.50	
77.27	79.25	1.98	1.63	82	H246820	2.5	1	0.31	2.50	0	41.00	
79.25	81.84	2.59	1.54	59	H246821	2.5	1	0.15	1.19	0	46.00	
81.84	85.34	3.50	1.19	34	H246822	1.5	1	0.24	0.58	0	118.50	
85.34	87.93	2.59	1.44	56	H246823	2.0	1	0.09	0.18	2310	949.00	
87.93	90.37	2.44	2.12	87	H246824	3.5	1	0.06	0.19	2660	742.00	
90.37	92.05	1.68	0.85	51	H246826	1.0	1	0.09	0.41	4780	126.50	
92.05	93.57	1.52	0.40	26	H246827	0.5	1	0.16	0.63	8730	118.50	note: no recovery from 93.57-96.32
96.32	98.76	2.44	2.01	82	H246828	3.0	1	0.17	2.00	2090	287.00	
98.76	100.58	1.82	1.38	76	H246829	1.5	1	0.11	1.02	1320	92.00	
100.58	103.63	3.05	1.04	34	H246830	1.0	1	0.04	0.62	1065	59.30	
103.63	105.16	1.53	1.12	73	H246831	2.0	1	0.01	0.13	517	19.95	
105.16	108.20	3.04	0.45	15	H246832	1.0	1	0.02	0.56	900	40.00	
108.20	111.10	2.90	2.15	74	H246834	3.5	1	0.02	0.05	143	0.72	
111.10	114.30	3.20	2.48	77	H246835	4.0	1	0.02	0.06	84	1.23	
114.30	115.98	1.68	0.96	57	H246836	1.5	1	0.01	0.03	63	0.60	
115.98	118.26	2.28	1.86	82	H246837	3.0	1	0.01	0.02	99	0.46	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H246807	0.3	1	0.52	0.89	4710	94.70	STANDARD RAU-1
51.05	53.95	2.90	1.91	66	H246810	1.5	1	84.50	1.70	0	2570.00	DUPLICATE
-	-	-			H246812	4.0	1	0.15	0.02	607	5.19	BLANK
-	-	-			H246825	0.3	1	1.38	5.13	0	320.00	STANDARD RAU-2
-	-	-			H246833	4.0	1	0.03	0.01	7	0.33	BLANK

DENSITY LOG

HOLE: RAU-09-19

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
55.15	OX			15.0	4.2	141.5	86.5	0.68	2.57
57.25	OX			12.0	4.2	119.0	80.0	0.72	3.05
86.60	LST	OX		15.0	4.2	538.5	336.4	2.59	2.66
88.25	LST	OX		13.5	4.2	526.1	337.1	2.81	2.78
91.50	LST	OX		12.2	4.2	342.4	188.7	2.03	2.23
97.50	LST	OX		11.5	4.2	403.6	252.1	2.53	2.66
100.00	LST	OX		14.0	4.2	455.1	268.5	2.35	2.44
101.70	LST	OX		11.0	4.2	332.6	197.2	2.18	2.46
104.25	LST	OX		14.0	4.2	519.4	331.4	2.68	2.76
108.00	LST	OX		12.5	4.2	497.4	325.0	2.87	2.89
113.80	LST	ALT		12.0	4.2	320.6	149.0	1.93	1.87
116.50	LST	FOS		10.0	4.2	317.2	175.1	2.29	2.23

MAGNETIC SUSCEPTIBILITY

HOLE: RAU-09-19

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
5.00	LST	BN	0.00	
6.00	LST	BN	0.02	
7.00	LST	BN	0.00	
8.00	LST	BN	0.00	
9.00	LST	BN	0.00	
10.00	LST	BN	0.00	
11.00	LST	BN	0.00	
12.00	LST	BN	0.00	
13.00	LST	BN	0.00	
14.00	LST	BN	0.06	
15.00	LST	BN	0.02	
16.00	LST	BN	0.00	
17.00	LST	BN	0.00	
18.00	LST	BN	0.00	
19.00	LST	BN		
20.00	LST	BN	0.08	
21.00	LST	BN	0.04	
22.00	LST	BN	0.00	
23.00	LST	BN	0.02	
24.00	LST	BX	0.00	
25.00	LST	BX	0.02	
26.00	LST	BX	0.00	
27.00	LST	BX	0.02	
28.00	LST	BX	0.02	
29.00	LST	BX	0.04	
30.00	LST	BX	0.02	
31.00	LST	BX	0.22	
32.00	LST	BX	0.02	
33.00	LST	BX	0.00	
34.00	LST	BX	0.04	
35.00	LST	BX	0.04	
36.00	LST	BX	0.02	
37.00	LST	BX	0.02	
38.00	LST	BX	0.00	
39.00	LST	BX	0.00	
40.00	LST	BX	0.16	
41.00	LST	BX	0.00	
42.00	OX		0.06	
43.00	OX		0.02	
44.00	OX		0.57	
45.00	OX		0.41	
46.00	OX		0.32	
47.00	OX		0.80	
48.00	OX		0.75	

MAGNETIC SUSCEPTIBILITY

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
49.00	OX		0.20	
50.00	OX		0.26	
51.00	OX		0.36	
52.00	OX		0.30	
53.00	OX		0.24	
54.00	OX		0.51	
55.00	OX		1.33	
56.00	OX		1.00	
57.00	OX		0.79	
58.00	OX		0.38	
59.00	OX		0.45	
60.00	OX		0.57	
61.00	OX		0.14	
62.00	OX		0.10	
63.00	OX		0.18	
64.00	OX		0.24	
65.00	OX		0.20	
66.00	OX		0.18	
67.00	OX		0.30	
68.00	OX		0.34	
69.00	OX		0.32	
70.00	OX		0.20	
71.00	OX		0.45	
72.00	OX		0.38	
73.00	OX		0.55	
74.00	OX		0.41	
75.00	OX		0.63	
76.00	OX		0.20	
77.00	OX		0.67	
78.00	OX		0.14	
79.00	OX		0.45	
80.00	OX		0.16	
81.00	OX		0.61	
82.00	OX		0.24	
83.00	OX		0.24	
84.00	OX		0.69	
85.00	OX		0.08	
86.00	LST	ALT	0.22	
87.00	LST	ALT	0.22	
88.00	LST	ALT	0.18	
89.00	LST	ALT	0.30	
90.00	LST	ALT	0.22	
91.00	LST	ALT	0.57	
92.00	LST	ALT	0.20	
93.00	LST	ALT	0.71	
94.00	LST	ALT	N/A	

MAGNETIC SUSCEPTIBILITY

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
95.00	LST	ALT	N/A	
96.00	LST	ALT	N/A	
97.00	LST	ALT	0.26	
98.00	LST	ALT	0.26	
99.00	LST	ALT	0.20	
100.00	LST	ALT	0.20	
101.00	LST	ALT	0.18	
102.00	LST	ALT	0.28	
103.00	LST	ALT	0.20	
104.00	LST	ALT	0.34	
105.00	LST	ALT	0.18	
106.00	LST	ALT	0.26	
107.00	LST	ALT	0.30	
108.00	LST	ALT	0.32	
109.00	MBL		0.12	
110.00	MBL		0.08	
111.00	MBL		0.06	
112.00	MBL		0.04	
113.00	MBL		0.04	
114.00	MBL		0.02	
115.00	MBL		0.00	
116.00	MBL		0.02	
117.00	MBL		0.04	
118.00	MBL		0.02	

BOX LOG

HOLE: RAU-09-19

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	3.00	9.41			
2	9.41	14.46			
3	14.46	20.89			
4	20.89	27.18			
5	27.18	33.32			
6	33.32	38.52			
7	38.52	44.10			
8	44.10	49.10			
9	49.10	55.12			
10	55.12	60.20			
11	60.20	65.95			
12	65.95	72.35			
13	72.35	78.40			
14	78.40	86.58			
15	86.58	92.51			
16	92.51	103.32			
17	103.32	111.90			
18	111.90	117.91			
19	117.91	118.26			
	E.O.H.	188.26			

RAU PROJECT

ZONE: Tiger
SECTION: 10+400W

HOLE: Rau-09-20
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528286.2	7119395	1410.25	162.61

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: BTW
Casing depth: 3.05 (m) out

Drilling dates: June 17-20, 2009

Logged by: K. Jessen, M. Dumala

Target: Oxide horizon in anticline, 100 m along strike from 09-19

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	17.24	17.24	LST	Fossiliferous
17.24	24.38	7.14	LST	Partially oxidized
24.38	53.34	28.96	LST	Fossiliferous
53.34	78.00	24.66	LST	Altered
78.00	91.07	13.07	VOL	Altered
91.07	158.5	67.43	LST	Altered
158.5	162.61	4.11	LST	Partially oxidized

SAMPLES	
Numbers:	H246838-H246850
	H246853-H246872
Total:	33 (Batch 2)
Date sent:	
Certificate:	VA09064974

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-20

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	17.24	17.24	LST	FOS	BN	BD	70					t										Light and medium grey banded fossiliferous (crinoid fragments) limestone. Rare oxidation along fractures. Minor brown clay on some fracture surfaces.
17.24	24.38	7.14	LST	OX	BN	BD	70					ms										LST is more fractured and oxidized with two 15 cm long clay altered zones. Occasional brecciated zones with Ca matrix. Breccias are more oxidized than the surrounding LST.
24.38	33.53	9.15	LST	FOS	BN	BD	70					f										Light and medium grey banded LST with crinoid fragments. Occasional oxidation along fractures. Fracture density increases toward the end of the interval.
33.53	53.34	19.81	LST	FOS	BN	BD	70					ms										Same banded, fossiliferous LST, but fracture density has increased. (20-50 Fr per m). Most fractures are oxidized, occasional rubble zones. Rare fractures with brown clay.
53.34	78.00	24.66	LST	ALT	BX							s										Brecciated mix of volcaniclastic and LST. Rubble zones and brown clay.
78.00	91.07	13.07	VOL	ALT	CR	VN	40					l			f							Medium grey-green volcaniclastic with abundant Qz-Ca veining and frequent rubble/clay zones. Fine to medium grained Py, very oxidized. Lower contact is sharp at 80 deg to CA. Fair fine grained disseminated pyrite.
						CN	80															
91.07	158.50	67.43	LST	ALT	CR	VN	70					f			w							First 35 cm below contact is very oxidized and brecciated. Light to medium grey, fluid altered LST crackled by Qz-Ca veinlets. Wide variation in vein angles from 30-50 deg to CA. Rare zones of brecciation by Ca veinlets. Occasional oxidized zones are altered to clay (20-50 cm long).
						VN	30															114.91 m: brecciation increases.
						VN	50															125.60-125.75 m: limonite boxwork.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

																								Core has a mottled texture where it isn't brecciated.
						VN	20																	138 m: Ca vein, 10 cm wide, with oxidized black crystals on the edges.
158.50	162.61	4.11	LST	OX	BX								I											Crackled to brecciated, strongly oxidized LST. Vug spaces occur in more oxidized zones.
																								E.O.H. 162.61 m

GEOTECHNICAL LOG

HOLE: Rau-09-20

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	2.13	2.13	0.10	5	0.00	0	MS	SW	
2.13	2.44	0.31	0.16	52	0.00	0	MS	SW	
2.44	2.59	0.15	0.09	60	0.00	0	MS	SW	
2.59	2.74	0.15	0.15	100	0.00	0	MS	SW	
2.74	2.90	0.16	0.14	88	0.00	0	MS	SW	
2.90	3.05	0.15	0.10	67	0.00	0	MS	SW	
3.05	3.66	0.61	0.51	84	0.19	31	MS	SW	
3.66	5.18	1.52	1.35	89	0.30	20	MS	SW	
5.18	5.49	0.31	0.18	58	0.00	0	MS	SW	
5.49	5.79	0.30	0.30	100	0.00	0	MS	SW	
5.79	5.94	0.15	0.12	80	0.00	0	MS	SW	
5.94	7.47	1.53	1.53	100	0.16	10	MS	SW	
7.47	9.14	1.67	1.62	97	0.65	39	MS	SW	
9.14	10.67	1.53	1.50	98	0.16	10	MS	SW	
10.67	12.19	1.52	1.52	100	0.46	30	MS	SW	
12.19	13.11	0.92	0.92	100	0.16	17	MS	SW	
13.11	14.63	1.52	1.48	97	0.35	23	MS	SW	
14.63	15.85	1.22	1.01	83	0.30	25	MS	SW	
15.85	16.76	0.91	0.70	77	0.12	13	MS	SW	
16.76	17.22	0.46	0.46	100	0.00	0	MS	SW	
17.22	18.29	1.07	1.01	94	0.00	0	MS	SW	
18.29	19.81	1.52	1.05	69	0.00	0	W	MW	
19.81	20.57	0.76	0.61	80	0.00	0	W	MW	
20.57	21.34	0.77	0.53	69	0.00	0	W	MW	
21.34	22.86	1.52	1.52	100	0.36	24	W	MW	
22.86	24.38	1.52	1.26	83	0.00	0	W	MW	
24.38	25.91	1.53	1.53	100	0.11	7	MS	SW	
25.91	27.43	1.52	1.50	99	0.68	45	MS	SW	
27.43	28.96	1.53	1.49	97	1.06	69	MS	SW	
28.96	30.48	1.52	1.48	97	1.16	76	MS	SW	
30.48	32.00	1.52	1.51	99	1.01	66	MS	SW	
32.00	33.53	1.53	1.45	95	1.18	77	MS	SW	
33.53	35.81	2.28	1.92	84	0.12	5	MS	SW	
35.81	36.88	1.07	0.87	81	0.00	0	W	MW	
36.88	38.10	1.22	1.11	91	0.00	0	W	MW	
38.10	39.32	1.22	1.08	89	0.00	0	W	MW	
39.32	40.23	0.91	0.90	99	0.00	0	W	MW	
40.23	41.15	0.92	0.72	78	0.00	0	W	MW	
41.15	42.82	1.67	1.44	86	0.00	0	W	MW	
42.82	44.50	1.68	1.25	74	0.00	0	W	MW	
44.50	45.57	1.07	0.97	91	0.00	0	W	MW	
45.57	45.87	0.30	0.23	77	0.00	0	W	MW	
45.87	46.33	0.46	0.40	87	0.00	0	W	MW	
46.33	46.63	0.30	0.30	100	0.00	0	W	MW	
46.63	47.40	0.77	0.52	68	0.00	0	W	MW	
47.40	48.16	0.76	0.71	93	0.00	0	W	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
48.16	48.92	0.76	0.67	88	0.00	0	W	MW	
48.92	49.38	0.46	0.45	98	0.00	0	W	SW	
49.38	50.29	0.91	0.59	65	0.22	24	W	SW	
50.29	50.90	0.61	0.47	77	0.21	34	W	SW	
50.90	51.82	0.92	0.81	88	0.28	30	W	SW	
51.82	53.34	1.52	1.33	87	0.25	16	W	SW	
53.34	53.95	0.61	0.22	36	0.00	0	VW	HW	
53.95	55.02	1.07	0.63	59	0.23	21	VW	HW	
55.02	55.78	0.76	0.58	76	0.26	34	VW	HW	
55.78	57.00	1.22	0.97	80	0.54	44	EW	EW	
57.00	57.45	0.45	0.35	78	0.10	22	VW	HW	
57.45	57.91	0.46	0.42	91	0.22	48	VW	HW	
57.91	58.22	0.31	0.31	100	0.32	103	VW	HW	
58.22	59.13	0.91	0.91	100	0.76	84	VW	HW	
59.13	60.50	1.37	0.41	30	0.29	21	VW	HW	
60.50	60.65	0.15	0.12	80	0.00	0	EW	EW	
60.65	60.96	0.31	0.12	39	0.10	32	EW	EW	
60.96	61.26	0.30	0.14	47	0.00	0	EW	EW	
61.26	61.57	0.31	0.20	65	0.00	0	EW	EW	
61.57	61.72	0.15	0.15	100	0.00	0	EW	EW	
61.72	61.87	0.15	0.15	100	0.00	0	EW	EW	
61.87	62.33	0.46	0.32	70	0.13	28	VW	HW	
62.33	63.40	1.07	0.96	90	0.63	59	VW	HW	
63.40	63.70	0.30	0.30	100	0.23	77	VW	HW	
63.70	64.16	0.46	0.46	100	0.00	0	VW	HW	
64.16	64.31	0.15	0.15	100	0.00	0	VW	HW	
64.31	64.62	0.31	0.17	55	0.00	0	VW	HW	
64.62	64.92	0.30	0.11	37	0.00	0	VW	HW	
64.92	65.07	0.15	0.00	0	0.00	0	VW	HW	
65.07	65.38	0.31	0.00	0	0.00	0	VW	HW	
65.38	65.84	0.46	0.21	46	0.00	0	VW	HW	
65.84	66.90	1.06	1.01	95	0.42	40	VW	HW	
66.90	67.67	0.77	0.54	70	0.00	0	VW	HW	
67.67	68.28	0.61	0.17	28	0.00	0	EW	EW	
68.28	68.58	0.30	0.11	37	0.00	0	EW	EW	
68.58	68.88	0.30	0.14	47	0.00	0	EW	EW	
68.88	69.34	0.46	0.13	28	0.00	0	EW	EW	
69.34	70.10	0.76	0.28	37	0.13	17	EW	EW	
70.10	71.02	0.92	0.83	90	0.14	15	EW	EW	
71.02	71.63	0.61	0.23	38	0.10	16	EW	EW	
71.63	71.93	0.30	0.13	43	0.00	0	EW	EW	
71.93	72.09	0.16	0.16	100	0.00	0	EW	EW	
72.09	73.15	1.06	1.06	100	0.87	82	VW	HW	
73.15	74.68	1.53	1.42	93	0.65	42	EW	EW	
74.68	75.59	0.91	0.85	93	0.22	24	EW	EW	
75.59	76.20	0.61	0.53	87	0.12	20	EW	EW	
76.20	77.11	0.91	0.78	86	0.28	31	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
77.11	77.72	0.61	0.40	66	0.10	16	EW	EW	
77.72	78.03	0.31	0.24	77	0.00	0	EW	EW	
78.03	79.23	1.20	1.20	100	0.90	75	VW	HW	
79.23	80.77	1.54	1.48	96	0.72	47	EW	EW	
80.77	82.30	1.53	1.43	93	0.68	44	EW	EW	
82.30	82.91	0.61	0.15	25	0.00	0	EW	EW	
82.91	83.21	0.30	0.13	43	0.00	0	EW	EW	
83.21	83.82	0.61	0.28	46	0.00	0	EW	EW	
83.82	84.43	0.61	0.55	90	0.00	0	EW	EW	
84.43	84.89	0.46	0.42	91	0.00	0	EW	EW	
84.89	85.34	0.45	0.45	100	0.00	0	EW	EW	
85.34	85.65	0.31	0.18	58	0.00	0	EW	EW	
85.65	85.80	0.15	0.15	100	0.00	0	EW	EW	
85.80	86.87	1.07	1.03	96	0.84	79	VW	HW	
86.87	87.02	0.15	0.12	80	0.00	0	VW	HW	
87.02	88.39	1.37	1.34	98	0.56	41	VW	HW	
88.39	89.92	1.53	1.43	93	0.99	65	VW	HW	
89.92	91.44	1.52	1.47	97	1.14	75	VW	HW	
91.44	92.05	0.61	0.61	100	0.10	16	W	SW	
92.05	92.96	0.91	0.91	100	0.39	43	W	SW	
92.96	94.49	1.53	1.48	97	1.15	75	W	SW	
94.49	96.01	1.52	1.52	100	1.33	87	W	SW	
96.01	97.54	1.53	0.53	35	1.19	78	W	SW	
97.54	99.06	1.52	1.47	97	1.45	95	W	SW	
99.06	99.82	0.76	0.76	100	0.00	0	VW	HW	
99.82	100.58	0.76	0.76	100	0.18	24	W	SW	
100.58	102.11	1.53	1.48	97	0.89	58	W	SW	
102.11	103.63	1.52	1.52	100	1.45	95	W	SW	
103.63	105.16	1.53	1.47	96	1.21	79	W	SW	
105.16	106.68	1.52	1.52	100	1.03	68	W	SW	
106.68	107.14	0.46	0.44	96	0.40	87	W	SW	
107.14	107.90	0.76	0.63	83	0.20	26	VW	HW	
107.90	109.42	1.52	1.44	95	0.82	54	W	SW	
109.42	110.03	0.61	0.61	100	0.61	100	W	SW	
110.03	110.79	0.76	0.71	93	0.22	29	W	SW	
110.79	112.17	1.38	1.34	97	0.90	65	W	SW	
112.17	114.30	2.13	2.13	100	2.05	96	W	SW	
114.30	114.91	0.61	0.39	64	0.00	0	W	SW	
114.91	115.67	0.76	0.76	100	0.55	72	W	SW	
115.67	116.89	1.22	1.22	100	0.15	12	W	SW	
116.89	117.35	0.46	0.32	70	0.00	0	W	MW	
117.35	117.65	0.30	0.30	100	0.12	40	W	SW	
117.65	118.41	0.76	0.22	29	0.00	0	W	SW	
118.41	118.72	0.31	0.26	84	0.11	35	W	SW	
118.72	121.92	3.20	3.20	100	1.95	61	W	SW	
121.92	123.60	1.68	0.65	39	1.24	74	W	SW	
123.60	125.73	2.13	2.13	100	2.02	95	W	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
125.73	128.02	2.29	2.20	96	1.63	71	W	SW	
128.02	131.06	3.04	3.04	100	2.70	89	W	SW	
131.06	134.11	3.05	3.05	100	2.28	75	W	SW	
134.11	137.16	3.05	3.05	100	2.95	97	W	SW	
137.16	140.21	3.05	3.03	99	2.26	74	W	SW	
140.21	143.26	3.05	3.03	99	2.90	95	W	SW	
143.26	146.30	3.04	3.04	100	2.64	87	W	SW	
146.30	149.35	3.05	3.05	100	1.45	48	W	SW	
149.35	152.40	3.05	3.05	100	1.93	63	W	SW	
152.40	153.92	1.52	1.52	100	0.32	21	W	SW	
153.92	156.97	3.05	3.05	100	1.70	56	W	SW	
156.97	159.87	2.90	2.90	100	0.16	6	W	SW	
159.87	161.39	1.52	0.35	23	0.00	0	W	MW	
161.39	161.85	0.46	0.14	30	0.00	0	W	MW	
161.85	162.61	0.76	0.76	100	0.12	16	W	MW	
	162.61	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-20

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
50.90	53.95	3.05	2.36	77	H246838	4.0	2	0.03	0.14	56	1.56	
53.95	57.00	3.05	2.18	71	H246839	3.0	2	0.08	0.24	206	12.20	
57.00	60.50	3.50	2.47	71	H246840	4.0	2	0.01	0.41	78	6.69	
60.50	63.40	2.90	2.16	74	H246841	3.5	2	0.02	3.35	586	48.80	
63.40	64.92	1.52	1.17	77	H246842	1.0	2	0.06	3.37	184	16.45	
65.38	68.28	2.90	1.96	68	H246843	3.0	2	0.02	1.83	417	16.95	
68.28	71.02	2.74	1.49	54	H246845	1.5	2	0.02	2.63	468	25.30	
71.02	73.15	2.13	1.59	75	H246846	3.0	2	0.02	1.01	302	18.40	
73.15	76.20	3.05	2.80	92	H246847	4.0	2	0.02	0.77	91	8.60	
76.20	79.23	3.03	2.62	86	H246848	4.0	2	0.03	1.72	408	383.00	
79.23	82.30	3.07	2.91	95	H246850	4.5	2	0.04	0.86	359	22.70	
82.30	85.34	3.04	1.98	65	H246853	2.5	2	0.13	1.99	901	191.00	
85.34	88.39	3.05	2.82	92	H246854	3.5	2	0.05	0.65	271	11.65	
88.39	91.07	2.68	2.68	100	H246855	4.0	2	0.03	0.27	182	4.33	
91.07	94.49	3.42	3.42	100	H246856	6.0	2	0.05	0.70	45	5.33	
94.49	97.54	3.05	3.05	100	H246858	5.5	2	0.04	0.63	22	10.95	
97.54	100.58	3.04	2.99	98	H246859	1.5	2	0.02	0.77	32	6.47	
100.58	103.63	3.05	3.00	98	H246860	5.0	2	0.02	1.03	67	3.97	
103.63	106.68	3.05	3.05	100	H246861	5.0	2	0.01	0.47	20	3.00	
106.68	109.42	2.74	2.51	92	H246862	3.5	2	0.01	0.55	31	4.66	
109.42	112.17	2.75	2.66	97	H246863	4.0	2	0.07	0.48	44	8.99	
112.17	115.67	3.50	3.32	95	H246864	6.0	2	0.02	0.26	47	3.61	
115.67	117.65	1.98	1.84	93	H246865	3.0	2	0.05	1.53	136	9.10	
117.65	118.72	1.07	0.48	45	H246867	0.5	2	0.08	2.44	244	9.09	
118.72	121.92	3.20	3.20	100	H246868	5.0	2	0.02	0.43	49	3.07	
156.97	158.50	1.53	1.52	99	H246870	2.0	2	0.08	0.24	20	6.77	
158.50	159.87	1.37	1.34	98	H246871	2.0	2	0.10	2.56	310	14.15	
159.87	162.61	2.74			H246872	2.0	2	0.04	1.67	277	8.32	
-	-	-			H246844	4.0	2	<0.01	0.02	<5	0.12	Blank
-	-	-			H246849	0.3	2	0.50	0.78	5760	92.10	Standard R-1

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
91.07	94.49	3.42	3.42	100	H246857	2.5	2	0.04	0.64	28	5.22	Duplicate
-	-	-			H246866	0.3	2	5.49	0.34	>10000	449.00	Standard R-3
-	-	-			H246869	4.0	2	<0.01	0.01	5	0.09	Blank

DENSITY LOG

HOLE: Rau-09-20

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
10.50	LST	FOS	WEIGHT IN AIR SATURATED	17.0	4.2	644.3		2.74	1.00
50.00	LST	FOS	418.7	12.0	4.2	417.4	261.2	2.51	2.67
58.20	LST	ALT		11.0	4.2	372.7	225.8	2.45	2.54
72.75	LST	ALT		9.0	4.2	331.2	203.3	2.66	2.59
78.75	VOL	ALT	309.6	10.0	4.2	306.6	183.9	2.21	2.50
91.00	LST	ALT		18.0	4.2	581.2	352.8	2.33	2.54
96.00	LST	ALT		15.0	4.2	559.5	357.9	2.69	2.78
97.60	LST	ALT	405	12.0	4.2	399.8	248.7	2.40	2.65
105.00	LST	ALT		15.0	4.2	576.9	370.0	2.78	2.79
111.50	LST	ALT	472.3	11.0	4.2	471.7	303.6	3.10	2.81
116.00	LST	ALT		18.0	4.2	674.6	431.0	2.71	2.77
122.10	LST	ALT		15.0	4.2	545.8	341.4	2.63	2.67

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-20

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3.00	LST	FOS	0.02	
4.00	LST	FOS	0.04	
5.00	LST	FOS	0.02	
6.00	LST	FOS	0.02	
7.00	LST	FOS	0.04	
8.00	LST	FOS	0.08	
9.00	LST	FOS	0.04	
10.00	LST	FOS	0.04	
11.00	LST	FOS	0.02	
12.00	LST	FOS	0.06	
13.00	LST	FOS	0.02	
14.00	LST	FOS	0.04	
15.00	LST	FOS	0.04	
16.00	LST	FOS	0.02	
17.00	LST	FOS	0.04	
18.00	LST	OX	0.02	
19.00	LST	OX	0.06	
20.00	LST	OX	0.02	
21.00	LST	OX	0.12	
22.00	LST	OX	0.04	
23.00	LST	OX	0.06	
24.00	LST	OX	0.02	
25.00	LST	OX	0.02	
26.00	LST	OX	0.04	
27.00	LST	OX	0.02	
28.00	LST	OX	0.04	
29.00	LST	FOS	0.10	
30.00	LST	FOS	0.28	
31.00	LST	FOS	0.06	
32.00	LST	FOS	0.06	
33.00	LST	FOS	0.04	
34.00	LST	FOS	0.06	
35.00	LST	FOS	0.04	
36.00	LST	FOS	0.04	
37.00	LST	FOS	0.04	
38.00	LST	FOS	0.04	
39.00	LST	FOS	0.04	
40.00	LST	FOS	0.10	
41.00	LST	FOS	0.06	
42.00	LST	FOS	0.02	
43.00	LST	FOS	0.02	
44.00	LST	FOS	0.04	
45.00	LST	FOS	0.02	
46.00	LST	FOS	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	LST	FOS	0.00	
48.00	LST	FOS	0.02	
49.00	LST	FOS	0.06	
50.00	LST	FOS	0.02	
51.00	LST	FOS	0.02	
52.00	LST	FOS	0.02	
53.00	LST	FOS	0.02	
54.00	LST	ALT	0.06	
55.00	LST	ALT	0.04	
56.00	LST	ALT	0.12	
57.00	LST	ALT	0.02	
58.00	LST	ALT	0.08	
59.00	LST	ALT	0.04	
60.00	LST	ALT	0.04	
61.00	LST	ALT	0.47	
62.00	LST	ALT	0.18	
63.00	LST	ALT	0.06	
64.00	LST	ALT	0.04	
65.00	LST	ALT	n/a	
66.00	LST	ALT	0.04	
67.00	LST	ALT	0.12	
68.00	LST	ALT	0.18	
69.00	LST	ALT	0.06	
70.00	LST	ALT	0.14	
71.00	LST	ALT	0.08	
72.00	LST	ALT	0.04	
73.00	LST	ALT	0.06	
74.00	LST	ALT	0.14	
75.00	LST	ALT	0.12	
76.00	LST	ALT	0.08	
77.00	LST	ALT	0.34	
78.00	VOL	ALT	0.18	
79.00	VOL	ALT	0.10	
80.00	VOL	ALT	0.04	
81.00	VOL	ALT	0.06	
82.00	VOL	ALT	0.16	
83.00	VOL	ALT	0.04	
84.00	VOL	ALT	0.08	
85.00	VOL	ALT	0.14	
86.00	VOL	ALT	0.06	
87.00	VOL	ALT	0.16	
88.00	VOL	ALT	0.08	
89.00	VOL	ALT	0.06	
90.00	VOL	ALT	0.10	
91.00	VOL	ALT	0.08	
92.00	LST	ALT	0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	LST	ALT	0.06	
94.00	LST	ALT	0.04	
95.00	LST	ALT	0.04	
96.00	LST	ALT	0.06	
97.00	LST	ALT	0.10	
98.00	LST	ALT	0.08	
99.00	LST	ALT	0.04	
100.00	LST	ALT	1.68	
101.00	LST	ALT	0.06	
102.00	LST	ALT	0.04	
103.00	LST	ALT	0.04	
104.00	LST	ALT	0.00	
105.00	LST	ALT	0.02	
106.00	LST	ALT	0.08	
107.00	LST	ALT	0.04	
108.00	LST	ALT	0.10	
109.00	LST	ALT	0.04	
110.00	LST	ALT	0.06	
111.00	LST	ALT	0.04	
112.00	LST	ALT	0.06	
113.00	LST	ALT	0.04	
114.00	LST	ALT	0.10	
115.00	LST	ALT	0.00	
116.00	LST	ALT	0.08	
117.00	LST	ALT	0.16	
118.00	LST	ALT	0.06	
119.00	LST	ALT	0.06	
120.00	LST	ALT	0.08	
121.00	LST	ALT	0.04	
122.00	LST	ALT	0.04	
123.00	LST	ALT	0.06	
124.00	LST	ALT	0.06	
125.00	LST	ALT	0.06	
126.00	LST	ALT	0.10	
127.00	LST	ALT	0.06	
128.00	LST	ALT	0.06	
129.00	LST	ALT	0.06	
130.00	LST	ALT	0.06	
131.00	LST	ALT	0.08	
132.00	LST	ALT	0.04	
133.00	LST	ALT	0.04	
134.00	LST	ALT	0.06	
135.00	LST	ALT	0.08	
136.00	LST	ALT	0.06	
137.00	LST	ALT	0.04	
138.00	LST	ALT	0.08	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139.00	LST	ALT	0.04	
140.00	LST	ALT	0.10	
141.00	LST	ALT	0.08	
142.00	LST	ALT	0.12	
143.00	LST	ALT	0.06	
144.00	LST	ALT	0.04	
145.00	LST	ALT	0.04	
146.00	LST	ALT	0.04	
147.00	LST	ALT	0.04	
148.00	LST	ALT	0.04	
149.00	LST	ALT	0.06	
150.00	LST	ALT	0.04	
151.00	LST	ALT	0.06	
152.00	LST	ALT	0.06	
153.00	LST	ALT	0.06	
154.00	LST	ALT	0.04	
155.00	LST	ALT	0.04	
156.00	LST	ALT	0.06	
157.00	LST	ALT	0.08	
158.00	LST	ALT	0.02	
159.00	LST	OX	0.12	
160.00	LST	OX	0.08	
161.00	LST	OX	0.22	
162.00	LST	OX	0.16	

BOX LOG

HOLE: Rau-09-20

BOX	FROM (m)	TO (m)		BOX	FROM (m)	TO (m)
1	0.00	6.76				
2	6.76	11.89				
3	11.89	17.16				
4	17.16	22.64				
5	22.64	28.12				
6	28.12	33.53				
7	33.53	38.74				
8	38.74	44.21				
9	44.21	49.18				
10	49.18	55.72				
11	55.72	61.87				
12	61.87	67.67				
13	67.67	74.20				
14	74.20	79.63				
15	79.63	85.80				
16	85.80	91.58				
17	91.58	97.06				
18	97.06	102.53				
19	102.53	107.90				
20	107.90	112.99				
21	112.99	118.72				
22	118.72	124.28				
23	124.28	130.00				
24	130.00	135.58				
25	135.58	141.15				
26	141.13	146.83				
27	146.83	152.40				
28	152.40	157.83				
29	157.83	162.61				
	162.61	E.O.H.				

RAU PROJECT

ZONE: Tiger
SECTION: 10+035W

HOLE: RAU-09-21
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528413.1	7119027.26	1237.94	160.93

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-60	compass				

Core size: HQ
Casing depth: 9.14 (m) out

Drilling dates: June 20-24, 2009

Logged by: J. Lane

Target: Twin Rau-08-03

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	5.49	5.49	OVB	Sandy
5.49	20.73	15.24	MBL	Rubbly
20.73	45.11	24.38	OX	Clay rich
45.11	48.92	3.81	DOL	Partially oxidized
48.92	77.47	28.55	LST	Partially oxidized
77.47	93.88	16.41	MBL	
93.88	100.36	6.48	OX	
100.36	104.96	4.60	VOL	Altered
104.96	106.45	1.49	VOL	
106.45	144.00	37.55	LEP	Leopard spotted
144.00	152.22	8.22	LEP	Altered
152.22	160.93	8.71	DOL	Brecciated, dolomitized limestone

SAMPLES

Numbers: H246873-H246916
Batches 2, 3, 4
Total: 44
Date sent:
Certificate: VA09064973, VA09064974, VA09070026
VA09068685

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-21

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	5.49	5.49	OVB	SAN																		Volcaniclastic boulders at very top, then sand and limestone rubble.
5.49	20.73	15.24	MBL	RBL	BN	BD	60															White marble with rare banding defined by silty horizons (2-5 cm wide). Highly fractured, with brown clay on fractures, occasional rubble zones.
																						18.00 m: 15 cm wide oxide breccia.
20.73	22.25	1.52	OX	CLY								I										Brown oxide clay with rock fragments up to 2 cm long.
22.25	23.77	1.52	OX	CLY								I										Red-brown oxide clay with sand and rock fragments up to 10 cm in diameter.
23.77	25.30	1.53	OX	CLY								I										Dominantly red-brown clay oxide with 5-10 cm pieces of core.
25.30	26.82	1.52	OX	CLY								I										Sandy at beginning, transitioning to red-brown clay with 2-5 cm pieces of rock.
26.82	28.35	1.53	OX	CLY								I										Starts as 5-12 cm pieces of oxide covered in red-brown clay, then becomes entirely red-brown clay at the end of the interval.
28.35	29.87	1.52	OX	RBL								I										Orange-brown limonite boxwork rubble pieces up to 5 cm long.
29.87	31.39	1.52	OX	SAN																		Dark grey-brown sand, with last ~40 cm of interval as red-brown clay. Sand is FG to MG.
31.39	32.92	1.53	OX	CLY								I										Red-brown clay with 1-2 cm limonitic rock fragments.
32.92	34.44	1.52	OX	CLY								I										Red-brown clay with <1 cm limonitic rock fragments.
34.44	35.97	1.53	OX	CLY								I										Red-brown clay with 1-5 cm limonitic rock fragments.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
35.97	37.49	1.52	OX	CLY								I										Red-brown clay with rare 1-2 cm limonitic rock fragments.
37.49	39.01	1.52	OX	CLY								I										Reddish brown clay.
39.01	40.54	1.53	OX	CLY								I										Red-brown clay with darker brown-grey limonitic rock fragments up to 2 cm.
40.54	42.06	1.52	OX	CLY								I										Red-brown clay with minor sand and 2 X 5 cm long pieces of marble.
42.06	43.59	1.53	OX	CLY								I										Red-brown clay holding together medium to coarse grained sand and 0.5-6 cm limonite boxwork fragments.
43.59	45.11	1.52	OX	CLY								I										Red-brown clay with 0.1-2 cm limonitic rock fragments.
45.11	48.92	3.81	DOL	ALT	BN	BD	30					ms										Coarse grained dolomite, recrystallized in appearance. 10-15 cm long limonitic boxwork zone and 20-50 cm zones of red-brown clay with limonite fragments. Core is very vuggy.
48.92	77.47	28.55	LST	ALT	BX	VN	50		w			m			t							Fluid collapse brecciated weakly dolomitized limestone. Oxidation concentrated around fractures Breccia is mainly clast supported.
																						62.79-63.92 m: Strongly oxidized breccia with graphite on some fractured surfaces. Occasional bleached zones occur, occasional marbleized zones with sericite bands. Rare Py blebs. Occasional pinkish zones.
77.47	93.88	16.41	MBL		BN	BD	30															Interbanded marble and light grey limestone. Irregular banding occurs from 20-40 deg to CA. There appears to be a fold at 82.30 m.
																						87.00-93.88 m: Mostly massive white marble with intermittent silty bands.
93.88	95.40	1.52	OX	CLY								I										Yellowy brown clay with rare 1-2 cm limonite fragments at end of interval.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
95.40	96.93	1.53	OX	RBL								I										Yellowy to reddish brown to yellowy brown clay with 1-2 cm dark red brown limonite fragments and flakes of a steel grey mineral (galena?) at the end of the interval.
96.93	98.45	1.52	OX	CLY								I										Reddish brown to yellowy brown clay with occasional rock fragments <1 cm.
98.45	99.97	1.52	OX	RBL						m		I										Oxidized crackled limestone with sericite alteration.
99.97	100.36	0.39	OX	CLY																		Brown clay with 1-2 cm limonite rock fragments
100.36	104.96	4.60	VOL	ALT	FO	FO	60			f												Medium to dark grey volcaniclastic intermixed with 5 20 cm intervals of marble. Limestone shows sericite alteration as stingers of pinkish brown and brownish green areas. Alteration zones have a swirly appearance, but range from 50-70 deg to CA.
104.96	106.45	1.49	VOL		MA	VN	30											Mag	ms			Dark grey to black semi-massive magnetite in dark grey-black volcaniclastic with very thin <1 - 2 mm calcite stringers. Dry core shows a faint mottled texture. No visible mineralization.
106.45	149.31	42.86	LEP			FO	70			w					t							Leopard print volcaniclastic with patch sizes varying from 1-10 mm. Zones 2-10 cm thick of more massive dark grey volcaniclastic also occur. Foliation in general is faint, but occurs at 70 deg to CA. Trace fine grained pyrite. Weak sericite bands occur within the unit. Calcite veins cut the unit. Coarse grained quartz flood contains elongate medium to dark green crystals (actinolite?)
						VN	35															
			LEP		FO	FO	65															142.60-144.00 m: medium grey, aphanitic volcaniclastic. Thin Ca stringers cut at 25 deg to CA
						VN	25															NOTE! 142.65 m: appears to be 2 m of oxide, but this is not at the true depth, it fell down the hole from further up.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	30			m												144.00-149.31 m: Moderately bleached and sericite altered leopard spotted volcaniclastic. The alteration appears stringy, and defines the foliation at 30 deg to CA. Small brown flaky crystals (biotite?) occur, throughout. Calcite veins cut unit at 10, 30 and 60 deg to Ca, 40 deg to FO.
						VN	10															
						VN	30															
						VN	60	40														
149.31	152.22	2.91	VOL	ALT	FO	FO	30			I												Foliated, intensely sericite altered volcaniclastic. Foliation has steepened in some areas to 30 deg to CA. Much of the interval is moderately fractured up. There is a very sharp contact with the lower unit at 15 deg to CA.
						CN	15															
152.22	160.93	8.71	LST	ALT	BX				s						w							Dark grey, strongly fluid brecciated, strongly dolomitized limestone with sub angular to sub-rounded clasts. Upper 3 m is rubbly, but not oxidized. Weak Py occurs as disseminations and small patches scattered throughout. Upper contact is very sharp.
																						E.O.H. 160.93 m

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-21

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	2.44	2.44	0.28	11	0.00	0	W	SW	
2.44	3.96	1.52	0.22	14	0.00	0	W	SW	
3.96	5.49	1.53	0.53	35	0.00	0	W	SW	
5.49	7.01	1.52	0.88	58	0.36	24	W	SW	
7.01	8.53	1.52	1.02	67	0.23	15	W	SW	
8.53	10.06	1.53	1.10	72	0.55	36	W	SW	
10.06	11.58	1.52	0.76	50	0.00	0	W	SW	
11.58	13.11	1.53	1.53	100	1.35	88	W	SW	
13.11	14.63	1.52	1.25	82	0.41	27	W	SW	
14.63	16.15	1.52	0.76	50	0.23	15	W	SW	
16.15	17.68	1.53	1.02	67	0.46	30	W	SW	
17.68	19.20	1.52	1.18	78	0.53	35	W	SW	
19.20	20.73	1.53	0.56	37	0.53	35	W	SW	
20.73	22.25	1.52	0.25	16	0.00	0	EW	EW	
22.25	23.77	1.52	1.35	89	0.00	0	EW	EW	
23.77	25.30	1.53	0.81	53	0.00	0	EW	EW	
25.30	26.82	1.52	1.13	74	0.00	0	EW	EW	
26.82	28.35	1.53	0.84	55	0.00	0	EW	EW	
28.35	29.87	1.52	1.20	79	0.00	0	EW	EW	
29.87	31.39	1.52	1.28	84	0.00	0	EW	EW	
31.39	32.92	1.53	1.50	98	0.00	0	EW	EW	
32.92	34.44	1.52	1.42	93	0.00	0	EW	EW	
34.44	35.97	1.53	1.45	95	0.00	0	EW	EW	
35.97	37.49	1.52	1.37	90	0.00	0	EW	EW	
37.49	39.01	1.52	1.41	93	0.00	0	EW	EW	
39.01	40.54	1.53	1.47	96	0.00	0	EW	EW	
40.54	42.06	1.52	1.52	100	0.00	0	EW	EW	
42.06	43.59	1.53	1.19	78	0.00	0	EW	EW	
43.59	45.11	1.52	0.21	14	0.00	0	EW	EW	
45.11	46.63	1.52	1.09	72	0.00	0	W	MW	
46.63	48.16	1.53	0.56	37	0.00	0	W	MW	
48.16	49.68	1.52	0.71	47	0.00	0	W	MW	
49.68	51.21	1.53	1.32	86	0.00	0	W	MW	
51.21	52.73	1.52	1.51	99	0.53	35	W	MW	
52.73	54.25	1.52	1.21	80	0.90	59	W	MW	
54.25	55.78	1.53	0.43	28	0.32	21	W	MW	
55.78	57.30	1.52	0.38	25	0.17	11	W	MW	
57.30	58.83	1.53	0.81	53	0.37	24	W	MW	
58.83	60.35	1.52	1.29	85	1.23	81	S	SW	
60.35	61.87	1.52	1.50	99	1.14	75	S	SW	
61.87	63.40	1.53	1.53	100	1.48	97	S	SW	
63.40	64.92	1.52	1.52	100	1.52	100	S	SW	
64.92	66.45	1.53	1.53	100	1.53	100	S	SW	
66.45	67.97	1.52	1.45	95	1.11	73	S	SW	
67.97	69.49	1.52	1.49	98	1.28	84	S	SW	
69.49	71.02	1.53	1.41	92	1.15	75	S	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
71.02	72.54	1.52	1.50	99	1.41	93	S	SW	
72.54	74.07	1.53	1.44	94	0.77	50	S	SW	
74.07	75.59	1.52	1.43	94	1.13	74	S	SW	
75.59	77.11	1.52	1.41	93	0.98	64	S	SW	
77.11	78.64	1.53	1.53	100	1.09	71	S	FR	
78.64	80.16	1.52	1.52	100	1.52	100	S	FR	
80.16	81.69	1.53	1.53	100	1.46	95	S	FR	
81.69	83.21	1.52	1.46	96	1.10	72	S	FR	
83.21	84.73	1.52	1.48	97	1.10	72	S	FR	
84.73	86.26	1.53	1.53	100	1.43	93	S	FR	
86.26	87.78	1.52	1.42	93	1.01	66	S	SW	
87.78	89.31	1.53	1.53	100	0.84	55	S	SW	
89.31	90.83	1.52	1.20	79	0.88	58	S	SW	
90.83	92.35	1.52	1.43	94	1.13	74	S	SW	
92.35	93.88	1.53	0.62	41	0.44	29	S	SW	VOID
93.88	95.40	1.52	0.63	41	0.00	0	EW	EW	
95.40	96.93	1.53	0.69	45	0.00	0	EW	EW	
96.93	98.45	1.52	0.40	26	0.00	0	EW	EW	
98.45	99.97	1.52	0.74	49	0.00	0	W	EW	
99.97	101.50	1.53	0.76	50	0.28	18	W	EW	
101.50	103.02	1.52	1.29	85	1.06	70	MS	FR	
103.02	104.55	1.53	1.53	100	1.25	82	MS	FR	
104.55	106.07	1.52	1.42	93	0.91	60	MS	FR	
106.07	107.59	1.52	1.50	99	0.80	53	MS	FR	
107.59	109.12	1.53	1.53	100	1.43	93	MS	FR	
109.12	110.64	1.52	1.52	100	1.42	93	MS	FR	
110.64	112.17	1.53	1.22	80	0.95	62	MS	FR	
112.17	113.69	1.52	1.52	100	1.39	91	MS	FR	
113.69	115.21	1.52	1.46	96	1.38	91	MS	FR	
115.21	116.74	1.53	1.53	100	1.53	100	MS	FR	
116.74	118.26	1.52	1.38	91	1.23	81	MS	FR	
118.26	119.79	1.53	1.53	100	0.25	16	MS	FR	
119.79	121.31	1.52	1.52	100	1.48	97	MS	FR	
121.31	122.83	1.52	1.52	100	1.42	93	MS	FR	
122.83	124.36	1.53	1.36	89	1.21	79	MS	FR	
124.36	125.88	1.52	1.52	100	1.48	97	MS	FR	
125.88	127.40	1.52	1.37	90	1.26	83	MS	FR	
127.40	128.93	1.53	1.52	99	1.43	93	MS	FR	
128.93	130.45	1.52	1.42	93	1.13	74	MS	FR	
130.45	131.98	1.53	1.53	100	1.20	78	MS	FR	
131.98	133.50	1.52	1.23	81	0.96	63	MS	FR	
133.50	135.03	1.53	1.43	93	0.12	8	MS	FR	
135.03	136.55	1.52	1.52	100	1.35	89	MS	FR	
136.55	138.07	1.52	1.37	90	1.29	85	MS	FR	
138.07	139.60	1.53	1.53	100	1.12	73	MS	FR	
139.60	141.12	1.52	1.39	91	1.17	77	MS	FR	
141.12	142.65	1.53	1.45	95	1.29	84	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
142.65	144.17	1.52	1.47	97	0.52	34	MS	FR	
144.17	145.69	1.52	1.44	95	0.85	56	MS	FR	
145.69	147.22	1.53	1.53	100	1.40	92	MS	FR	
147.22	148.74	1.52	1.41	93	1.07	70	MS	FR	
148.74	150.27	1.53	1.15	75	0.39	25	MS	FR	
150.27	151.79	1.52	1.32	87	0.39	26	W	MW	
151.79	153.31	1.52	1.34	88	0.31	20	W	MW	
153.31	154.84	1.53	1.38	90	0.11	7	W	MW	
154.84	156.36	1.52	1.52	100	0.98	64	MS	FR	
156.36	157.89	1.53	1.41	92	0.44	29	MS	FR	
157.89	159.41	1.52	1.27	84	0.48	32	MS	FR	
159.41	160.93	1.52	1.52	100	0.58	38	MS	FR	

SAMPLE LOG

HOLE: RAU-09-21

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
0.00	5.49	5.49	1.03	19	H246873	3.0	2	0.10	4.57	432	16.55	
5.49	8.53	3.04	1.90	63	H246874	6.5	2	0.02	0.07	199	3.43	
8.53	11.58	3.05	1.86	61	H246875	6.0	2	0.15	0.37	1280	26.00	
11.58	14.63	3.05	2.78	91	H246876	11.0	3	0.07	0.11	362	4.13	
14.63	17.68	3.05	1.78	58	H246877	7.0	3	0.09	0.13	654	4.10	
17.68	20.73	3.05	1.74	57	H246878	8.0	3	0.08	0.17	662	7.62	
20.73	22.25	1.52	0.25	16	H246880	1.0	3	1.19	12.05	1.75%	335.00	
22.25	23.77	1.52	1.35	89	H246881	5.0	3	1.25	17.30	2.47%	443.00	
23.77	25.30	1.53	0.81	53	H246882	2.0	3	0.56	19.70	3.57%	420.00	
25.30	26.82	1.52	1.13	74	H246883	2.0	3	0.49	10.40	3.40%	206.00	
26.82	28.35	1.53	0.84	55	H246885	2.0	3	0.39	7.88	3.17%	160.00	
28.35	29.87	1.52	1.20	79	H246886	0.5	3	0.08	2.09	2.87%	24.90	
29.87	31.39	1.52	1.28	84	H246887	4.0	3	0.60	7.84	2.74%	77.40	
31.39	32.92	1.53	1.50	98	H246888	3.0	3	0.51	0.72	3.24%	302.00	
32.92	34.44	1.52	1.42	93	H246889	4.0	3	0.94	1.58	3.16%	185.00	
34.44	35.97	1.53	1.45	95	H246890	4.0	3	1.09	1.17	3.33%	446.00	
35.97	37.49	1.52	1.37	90	H246891	4.5	3	0.67	0.89	3.38%	648.00	
37.49	39.01	1.52	1.41	93	H246892	5.0	3	0.88	4.58	2.46%	504.00	
39.01	40.54	1.53	1.47	96	H246893	5.0	3	0.49	1.50	2.83%	488.00	
40.54	42.06	1.52	1.52	100	H246895	2.5	3	0.58	3.69	1.71%	307.00	
42.06	43.59	1.53	1.19	78	H246896	4.0	3	0.40	0.31	2.52%	365.00	
43.59	45.11	1.52	0.21	14	H246897	1.5	3	0.97	1.17	2.44%	170.50	
45.11	48.16	3.05	1.09	36	H246898	6.0	3	0.12	0.58	1440	21.40	
48.16	51.21	3.05	2.03	67	H246900	7.5	3	0.13	0.26	3760	107.00	
51.21	54.25	3.04	2.72	89	H246901	9.5	3	0.04	0.17	1440	9.54	
54.25	57.30	3.05	0.81	27	H246902	3.0	3	0.05	0.10	2200	3.66	
57.30	58.92	1.62	0.93	57	H246903	3.0	3	0.49	0.44	8030	55.80	
58.92	61.87	2.95	2.64	89	H246905	10.5	3	0.01	0.07	191	1.10	
61.87	62.79	0.92	0.92	100	H246906	2.0	3	<0.01	0.02	380	0.48	
62.79	63.92	1.13	1.13	100	H246907	4.5	3	0.02	0.04	2590	0.83	
63.92	66.45	2.53	2.53	100	H246908	11.0	3	0.01	0.04	150	0.41	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
88.36	90.83	2.47	1.20	49	H246909	8.0	3	<0.01	0.05	27	0.12	
90.83	93.88	3.05	0.62	20	H246910	8.0	3	0.01	0.04	83	0.20	
93.88	96.93	3.05	1.32	43	H246911	4.5	3	0.07	4.02	1.52%	1.16	
96.93	98.45	1.52	0.40	26	H246912	1.0	4	0.10	3.74	1.84%	0.90	
98.45	99.97	1.52	0.74	49	H246913	2.0	4	0.02	0.12	278	0.13	
99.97	101.50	1.53	0.76	50	H246914	3.0	4	0.04	10.30	2830	0.27	
101.50	104.55	3.05		0	H246916	12.0	4	<0.01	0.22	57	0.16	
-	-	-			H246879	4.0	3	<0.01	0.01	<5	0.06	Blank
-	-	-			H246884	0.3	3	5.32	0.24	4.65%	463.00	Standard R-3
-	-	-			H246894	4.0	3	<0.01	0.02	58	1.75	Blank
45.11	48.16	3.05	1.09	36	H246899	2.5	3	0.09	0.47	1290	14.25	Duplicate
-	-	-			H246904	0.3	3	1.47	1.64	2.62%	329.00	Standard R-2
-	-	-			H246915	4.0	4	<0.01	0.05	11	0.11	Blank

DENSITY LOG

HOLE: RAU-09-21

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
6.50	MBL			16.5	6.1	1300.3	855.1	2.68	2.92
13.00	OX			18.0	6.1	1415.7	919.7	2.67	2.85
19.20	OX			11.5	6.1	868.2	546.4	2.57	2.70
51.20	LST	ALT		19.5	6.1	1575.7	1048.3	2.75	2.99
61.90	LST	ALT		11.0	6.1	924.4	599.0	2.86	2.84
67.30	LST	ALT		17.0	6.1	1435.0	956.8	2.87	3.00
71.40	LST	ALT		15.0	6.1	1198.0	781.2	2.72	2.87
75.60	LST	ALT		13.0	6.1	1186.3	775.2	3.10	2.89
77.00	LST	ALT		11.0	6.1	1032.8	678.0	3.19	2.91
83.00	MBL			14.0	6.1	1100.8	690.0	2.67	2.68
86.70	MBL			12.0	6.1	878.1	563.0	2.49	2.79
90.25	MBL			19.0	6.1	1495.8	968.0	2.68	2.83
99.90	OX			18.0	6.1	1528.1	1032.0	2.89	3.08
104.60	VOL	ALT		10.0	6.1	712.6	421.6	2.42	2.45
108.90	LEP			14.0	6.1	1184.5	766.8	2.88	2.84
113.50	LEP			19.0	6.1	1630.0	1116.3	2.92	3.17
141.25	LEP			13.0	6.1	1107.1	712.5	2.90	2.81
145.25	LEP			11.0	6.1	887.7	569.2	2.74	2.79
148.70	LEP			15.0	6.1	1233.3	797.2	2.80	2.83
156.40	LST	ALT		11.0	6.1	935.8	603.5	2.89	2.82
160.90	LST	ALT		15.0	6.1	1234.7	800.6	2.80	2.84

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-21

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
5.00	OVB		0.01	
6.00	MBL		0.03	
7.00	MBL		0.00	
8.00	MBL		0.03	
9.00	MBL		0.03	
10.00	MBL		0.00	
11.00	MBL		0.01	
12.00	MBL		0.01	
13.00	MBL		0.03	
14.00	MBL		0.08	
15.00	MBL		0.03	
16.00	MBL		0.01	
17.00	MBL		0.01	
18.00	MBL		0.21	
19.00	MBL		0.01	
20.00	MBL		0.01	
21.00	OX		0.55	
22.00	OX		0.48	
23.00	OX		0.35	
24.00	OX		0.45	
25.00	OX		0.28	
26.00	OX		0.53	
27.00	OX		0.40	
28.00	OX		0.87	
29.00	OX		0.57	
30.00	OX		1.02	
31.00	OX		1.59	
32.00	OX		0.40	
33.00	OX		0.57	
34.00	OX		0.23	
35.00	OX		0.31	
36.00	OX		0.40	
37.00	OX		0.35	
38.00	OX		1.68	
39.00	OX		0.57	
40.00	OX		0.43	
41.00	OX		2.06	
42.00	OX		0.70	
43.00	OX		0.31	
44.00	OX		0.28	
45.00	OX		0.33	
46.00	DOL	ALT	0.47	
47.00	DOL	ALT	0.28	
48.00	DOL	ALT	0.26	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
49.00	LST	ALT	0.57	
50.00	LST	ALT	0.38	
51.00	LST	ALT	0.38	
52.00	LST	ALT	0.26	
53.00	LST	ALT	0.33	
54.00	LST	ALT	0.16	
55.00	LST	ALT	0.16	
56.00	LST	ALT	0.26	
57.00	LST	ALT	0.15	
58.00	LST	ALT	0.16	
59.00	LST	ALT	0.13	
60.00	LST	ALT	0.30	
61.00	LST	ALT	0.15	
62.00	LST	ALT	0.13	
63.00	LST	ALT	0.25	
64.00	LST	ALT	0.31	
65.00	LST	ALT	0.20	
66.00	LST	ALT	0.20	
67.00	LST	ALT	0.16	
68.00	LST	ALT	0.35	
69.00	LST	ALT	0.33	
70.00	LST	ALT	0.21	
71.00	LST	ALT	0.43	
72.00	LST	ALT	1.73	
73.00	LST	ALT	0.05	
74.00	LST	ALT	0.10	
75.00	LST	ALT	0.57	
76.00	LST	ALT	0.52	
77.00	LST	ALT	0.50	
78.00	MBL		0.03	
79.00	MBL		0.00	
80.00	MBL		0.00	
81.00	MBL		0.01	
82.00	MBL		0.01	
83.00	MBL		0.05	
84.00	MBL		0.05	
85.00	MBL		0.01	
86.00	MBL		0.03	
87.00	MBL		0.01	
88.00	MBL		0.01	
89.00	MBL		0.03	
90.00	MBL		0.03	
91.00	MBL		0.01	
92.00	MBL		0.01	
93.00	MBL		0.10	
94.00	OX		0.77	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
95.00	OX		0.42	
96.00	OX		0.35	
97.00	OX		0.94	
98.00	OX		0.25	
99.00	OX		0.47	
100.00	OX		0.36	
101.00	VOL	ALT	0.60	
102.00	VOL	ALT	0.11	
103.00	VOL	ALT	1.00	
104.00	VOL	ALT	5.69	
105.00	VOL		4.97	
106.00	VOL		0.63	
107.00	LEP		0.21	
108.00	LEP		0.38	
109.00	LEP		0.42	
110.00	LEP		0.48	
111.00	LEP		0.33	
112.00	LEP		0.38	
113.00	LEP		0.36	
114.00	LEP			
115.00	LEP		0.30	
116.00	LEP		0.63	
117.00	LEP		0.35	
118.00	LEP		0.50	
119.00	LEP		0.38	
120.00	LEP		0.42	
121.00	LEP		0.58	
122.00	LEP		0.62	
123.00	LEP		0.60	
124.00	LEP		0.47	
125.00	LEP		0.67	
126.00	LEP		0.25	
127.00	LEP		0.63	
128.00	LEP		0.52	
129.00	LEP		0.42	
130.00	LEP		0.40	
131.00	LEP		0.36	
132.00	LEP		0.35	
133.00	LEP		0.48	
134.00	LEP		0.33	
135.00	LEP		0.45	
136.00	LEP		0.45	
137.00	LEP		0.35	
138.00	LEP		0.58	
139.00	LEP		0.33	
140.00	LEP		0.42	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
141.00	LEP		0.30	
142.00	LEP		0.45	
143.00	LEP		0.28	
144.00	LEP		0.28	
145.00	VOL	ALT	0.38	
146.00	VOL	ALT	0.42	
147.00	VOL	ALT	0.36	
148.00	VOL	ALT	0.35	
149.00	VOL	ALT	0.13	
150.00	VOL	ALT	0.01	
151.00	VOL	ALT	0.03	
152.00	VOL	ALT	0.06	
153.00	LST	ALT	0.05	
154.00	LST	ALT	0.08	
155.00	LST	ALT	0.03	
156.00	LST	ALT	0.01	
157.00	LST	ALT	0.00	
158.00	LST	ALT	0.06	
159.00	LST	ALT	0.01	
160.00	LST	ALT	0.00	

BOX LOG

HOLE: RAU-09-21

BOX	FROM (m)	TO (m)
1	0.00	9.55
2	9.55	14.40
3	14.40	19.23
4	19.23	25.76
5	25.76	32.64
6	32.64	36.08
7	36.08	39.68
8	39.68	46.23
9	46.23	52.06
10	52.06	59.17
11	59.17	63.40
12	63.40	67.77
13	67.77	71.88
14	71.88	76.10
15	76.10	80.16
16	80.16	84.37
17	84.37	88.36
18	88.36	93.54
19	93.54	101.50
20	101.50	105.80
21	105.80	109.67
22	109.67	113.91
23	113.91	118.42
24	118.42	122.45
25	122.45	126.51
26	126.51	130.70
27	130.70	135.20
28	135.20	139.29
29	139.29	142.65
30	142.65	145.32
31	145.32	149.31
32	149.31	153.81
33	153.81	157.44
34	157.44	160.93
	160.93	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+400W

HOLE: RAU-09-22
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528286.2	711934.5	1410.25	210.61

Contractor: Superior
Drill: Scout

SURVEY

Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-75	compass				

Core size: BTW
Casing depth: 1.50 (m) in/out

Drilling dates: June 20-25, 2009

Logged by: J. Lane

Target: Down dip extension of hole Rau-09-20

SUMMARY

From (m)	To (m)	Interval	Unit	Comments
0.00	2.13	2.13	OVB	
2.13	64.31	62.18	LST	Fossiliferous
64.31	77.78	13.47	OX	Rubble
77.88	82.40	4.52	LST	Partially oxidized
82.40	114.15	31.75	VOL	Altered
114.15	114.75	0.60	LST	Altered
114.75	143.59	28.84	LST	
143.59	156.85	13.26	LST	Altered, fossiliferous
156.85	158.55	1.70	OX	
158.55	192.96	34.41	LST	Altered
192.96	210.61	17.65	LST	Altered and brecciated

SAMPLES

Numbers: H246917-H246949
Batches 4 & 5
Total: 33
Date sent: July 4, 2009
Certificate: VA09068685, VA09068417

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-22

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.13	2.13	OVB	RBL																		
2.13	64.31	62.18	LST	FOS	BN	BD	50					w										Light and medium grey banded LST with crinoid stem fragments. Occasional 5-15 cm wide marbleized zones. Rubble zones up to 15 cm long occur.
												f										25.70-31.00 m: dominantly rubble, with rare intact pieces of core. Some brown clay mixed in with the rubble.
												m										42.00 m: oxidation increases.
																						60.50 m: core becomes very fractured, with brown clay in fractures.
64.31	77.78	13.47	OX	RBL								l										Brown clay for first 10 cm, changing to a red-brown colour after. 5-10% medium to coarse grained quartz sand within the clay. Rare 1-4 cm limonite fragments occur mixed within the unit.
																						69.19-70.56 m: Quartz vein rubble, pieces up to 3 cm, with yellowy-brown clay. Mix of 1-4 cm quartz vein rubble with red-brown clay. Quartz vein rubble > clay.
																						71.63-72.54 m: First 5 cm is a chunk of Qz vein and the rest of the interval is reddish-brown clay.
																						72.54-73.46 m: Quartz vein rubble with occasional brown clay.
																						74.07-74.52 m: No recovery.
77.78	82.40	4.62	LST	ALT	BX							m										LST breccia rubble. Core is rubble and strongly oxidized, so it is difficult to see much detail. Also coated in brown to red-brown clay.
82.40	114.15	31.75	VOL	ALT	BN	BD	50					f										Green-grey volcaniclastic. Oxidized and coated in brown clay. Frequent Ca veining. Veins occasional have vug spaces, possibly where sulphides have weathered out.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	30					m										87.16-99.72 m: Oxidized, rubbly volcaniclastic, rubble is reddish-brown to dark green-brown. Rare red-brown clay intervals. Occasional zones where core is less oxidized, can see original composition. Rubble pieces are very vuggy.
					CR	VN	20					f										99.72-114.15 m: Greenish-grey limestone with a crackle texture created by <1-2 mm Ca veinlets. There are at least 3 phases of veining. Bleached zones occur around these veinlets. Oxidation of the veinlets makes them pale yellow to brown in colour. No mineralization is visible The limestone has very faint 1 mm Ca crystals giving the core a grainy appearance in the more unaltered zones.
						VN	80															
						VN	50															
114.15	114.75	0.60	LST	ALT	MA	VN	45					f			w							Medium to dark grey limestone with fractures filled with medium brown clay. Fair oxidation occurs surrounding thin Qz-Ca stringer veinlets. Pyrite occurs as fine to medium grained sub to euhedral crystals scattered throughout.
114.75	143.59	28.84	LST		BX	BD	30															Medium grey, gritty massive limestone with zones o fluid brecciation. 35% breccia overall. The breccia is clast supported. Non brecciated areas are slightly banded at 30 deg to CA. Qz-Ca veins cut the breccia at 35 deg to CA.
						VN	35															117.45-117.90 m: zone of moderately strong oxidation. Thin fractures are coated in clay. This zone is also quite rubbly.
																						138.20-143.59 m: Limestone has become darker grey in colour in some zones. Brecciation has become more intense.
																						134.44-134.55 m: zone of red hematite alteration.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
143.59	156.85	13.26	LST	FOS	BX	BN	60					w			t							Fossiliferous dark grey limestone. There appear to be almost graphitic lenses within the limestone. Trace very fine grained disseminated Py occurs. Core has become very rubbly with slight oxidation o some fractured surfaces. Red hematite also occurs on some of the surfaces as well as in layers in the core. Fluid brecciation is prevalent but relict banding can be measured at 60 deg to CA.
				ALT																		154.60-155.62 m: dark brown, rubbly, oxidized zone with blue-silver vitreous faces.
156.85	158.55	1.70	OX									I										Dark red-brown oxide zone with some very rubbly pieces of the limestone which are very oxidized.
158.55	192.96	34.41	LST	ALT	BD	BN	60		s						f							Very fine grained light bluish grey strongly dolomitized limestone. Faint compositional banding is visible at 60 deg to CA. Pyrite occurs in patches replacing white calcite patches and bands. Py is fine to medium grained. Qz-Ca veins cut the unit at 45 deg o CA.
						VN	45								w							161.49-164.49 m: Increase in less dolomitized limestone. 60% dolomitized, 40% non dolomitized.
										m					t							164.49-172.58 m: Light green (sericite) patches are replacing Ca patches within the limestone. Only trace disseminated pyrite.
																						171.20-172.58 m: Core becomes more broken up and weakly altered with orange brown stain on and surrounding fractured surfaces.
						BN	40															172.58-181.96 m: Some fractures have a bleached zone 1-4 cm surrounding the fractures that occur at 40 deg to CA.
																						181.96-189.70 m: The limestone has become more broken up with dark red hematite stain coating fractures within this zone. The limestone becomes slightly darker grey in colour further down the interval.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BN	40		w													189.70-192.96 m: Black, weakly dolomitized limestone. Py occurs as isolated blebs and along compositional banding running at 40 deg to CA. Trace very thin bands of Ca occur along compositional banding. Upper and lower contacts of the unit are sharp at 50 deg to CA.
						CN	50															
192.96	210.61	17.65	LST	ALT	BX				m			w										Medium to dark grey, intensely fluid collapse brecciated, moderately dolomitized limestone. The core is highly fractured in some zones. Surfaces of fractured fragments are weakly oxidized. No visible mineralization occurs.
																						210.61 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-22

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	1.52	1.52	0.10	7	0.00	0	MS	SW	
1.52	1.83	0.31	0.11	35	0.00	0	MS	SW	
1.83	1.98	0.15	0.09	60	0.00	0	MS	SW	
1.98	2.13	0.15	0.10	67	0.00	0	MS	SW	
2.13	2.29	0.16	0.13	81	0.00	0	MS	SW	
2.29	3.05	0.76	0.76	100	0.00	0	MS	SW	
3.05	3.66	0.61	0.58	95	0.00	0	MS	SW	
3.66	4.11	0.45	0.45	100	0.00	0	MS	SW	
4.11	5.18	1.07	1.02	95	0.12	11	MS	SW	
5.18	7.01	1.83	1.67	91	0.95	52	MS	SW	
7.01	9.14	2.13	2.13	100	0.63	30	MS	SW	
9.14	10.67	1.53	1.45	95	0.54	35	MS	SW	
10.67	11.89	1.22	1.22	100	0.41	34	MS	SW	
11.89	12.19	0.30	0.18	60	0.00	0	MS	SW	
12.19	12.95	0.76	0.65	86	0.00	0	MS	SW	
12.95	14.33	1.38	1.36	99	0.11	8	MS	SW	
14.33	15.54	1.21	1.12	93	0.24	20	MS	SW	
15.54	15.85	0.31	0.31	100	0.00	0	MS	SW	
15.85	17.37	1.52	1.52	100	0.67	44	MS	SW	
17.37	17.53	0.16	0.16	100	0.00	0	MS	SW	
17.53	18.14	0.61	0.52	85	0.11	18	MS	SW	
18.14	19.81	1.67	1.67	100	0.55	33	MS	SW	
19.81	20.12	0.31	0.18	58	0.00	0	MS	SW	
20.12	21.03	0.91	0.77	85	0.24	26	MS	SW	
21.03	21.79	0.76	0.61	80	0.00	0	MS	SW	
21.79	22.25	0.46	0.44	96	0.27	59	MS	SW	
22.25	23.16	0.91	0.91	100	0.26	29	MS	SW	
23.16	23.93	0.77	0.59	77	0.31	40	MS	SW	
23.93	24.08	0.15	0.13	87	0.00	0	MS	SW	
24.08	26.37	2.29	2.05	90	0.00	0	MS	SW	
26.37	27.74	1.37	1.13	82	0.00	0	MS	SW	
27.74	28.04	0.30	0.30	100	0.00	0	MS	SW	
28.04	28.50	0.46	0.34	74	0.00	0	MS	SW	
28.50	28.96	0.46	0.22	48	0.18	39	MS	SW	
28.96	29.87	0.91	0.81	89	0.00	0	MS	SW	
29.87	30.02	0.15	0.15	100	0.00	0	MS	SW	
30.02	30.48	0.46	0.35	76	0.00	0	MS	SW	
30.48	30.78	0.30	0.26	87	0.00	0	MS	SW	
30.78	31.55	0.77	0.66	86	0.00	0	MS	SW	
31.55	31.70	0.15	0.09	60	0.00	0	MS	SW	
31.70	32.77	1.07	0.67	63	0.00	0	MS	SW	
32.77	33.53	0.76	0.76	100	0.00	0	MS	SW	
33.53	33.99	0.46	0.42	91	0.17	37	MS	SW	
33.99	34.44	0.45	0.41	91	0.00	0	MS	SW	
34.44	34.59	0.15	0.12	80	0.00	0	MS	SW	
34.59	35.51	0.92	0.76	83	0.34	37	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
35.51	36.58	1.07	1.07	100	0.36	34	MS	SW	
36.58	37.19	0.61	0.61	100	0.22	36	MS	SW	
37.19	39.62	2.43	2.36	97	0.93	38	MS	SW	
39.62	40.84	1.22	1.21	99	0.17	14	MS	SW	
40.84	41.76	0.92	0.71	77	0.00	0	MS	SW	
41.76	41.91	0.15	0.08	53	0.00	0	MS	SW	
41.91	42.06	0.15	0.15	100	0.00	0	MS	SW	
42.06	44.20	2.14	2.14	100	0.00	0	MS	SW	
44.20	45.72	1.52	1.47	97	0.17	11	MS	SW	
45.72	46.18	0.46	0.32	70	0.00	0	MS	SW	
46.18	48.01	1.83	1.77	97	0.00	0	MS	SW	
48.01	48.31	0.30	0.30	100	0.00	0	MS	SW	
48.31	48.62	0.31	0.26	84	0.00	0	MS	SW	
48.62	49.68	1.06	1.05	99	0.44	42	MS	SW	
49.68	50.29	0.61	0.43	70	0.00	0	MS	SW	
50.29	51.21	0.92	0.92	100	0.16	17	MS	SW	
51.21	52.12	0.91	0.74	81	0.00	0	MS	SW	
52.12	52.43	0.31	0.18	58	0.13	42	MS	SW	
52.43	53.49	1.06	0.86	81	0.20	19	MS	SW	
53.49	55.02	1.53	1.49	97	0.57	37	MS	SW	
55.02	56.24	1.22	0.96	79	0.34	28	MS	SW	
56.24	57.30	1.06	1.02	96	0.81	76	MS	SW	
57.30	57.76	0.46	0.36	78	0.17	37	MS	SW	
57.76	58.06	0.30	0.20	67	0.00	0	MS	SW	
58.06	58.83	0.77	0.58	75	0.00	0	MS	SW	
58.83	60.50	1.67	1.63	98	0.77	46	MS	SW	
60.50	61.11	0.61	0.61	100	0.00	0	MS	SW	
61.11	61.72	0.61	0.42	69	0.00	0	W	MW	
61.72	62.03	0.31	0.17	55	0.00	0	W	MW	
62.03	62.18	0.15	0.15	100	0.00	0	W	MW	
62.18	62.64	0.46	0.46	100	0.00	0	W	MW	
62.64	63.70	1.06	0.80	75	0.00	0	W	MW	
63.70	64.31	0.61	0.46	75	0.14	23	W	MW	
64.31	65.53	1.22	0.56	46	0.00	0	EW	EW	
65.53	65.84	0.31	0.11	35	0.00	0	EW	EW	
65.84	66.14	0.30	0.09	30	0.00	0	EW	EW	
66.14	66.29	0.15	0.14	93	0.00	0	EW	EW	
66.29	66.75	0.46	0.30	65	0.00	0	EW	EW	
66.75	67.21	0.46	0.21	46	0.00	0	EW	EW	
67.21	67.67	0.46	0.31	67	0.00	0	EW	EW	
67.67	67.97	0.30	0.22	73	0.00	0	EW	EW	
67.97	68.88	0.91	0.56	62	0.00	0	EW	EW	
68.88	69.19	0.31	0.12	39	0.00	0	EW	EW	
69.19	69.65	0.46	0.06	13	0.00	0	EW	EW	
69.65	70.10	0.45	0.07	16	0.00	0	EW	EW	
70.10	70.56	0.46	0.12	26	0.00	0	EW	EW	
70.56	71.02	0.46	0.21	46	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
71.02	71.63	0.61	0.43	70	0.00	0	EW	EW	
71.63	72.54	0.91	0.62	68	0.00	0	EW	EW	
72.54	72.85	0.31	0.23	74	0.00	0	EW	EW	
72.85	73.46	0.61	0.44	72	0.00	0	EW	EW	
73.46	74.07	0.61	0.29	48	0.00	0	EW	EW	
74.07	74.52	0.45	0.00	0	0.00	0	EW	EW	
74.52	75.29	0.77	0.18	23	0.00	0	EW	EW	
75.29	75.74	0.45	0.27	60	0.00	0	EW	EW	
75.74	76.20	0.46	0.16	35	0.00	0	EW	EW	
76.20	76.81	0.61	0.08	13	0.00	0	EW	EW	
76.81	77.11	0.30	0.15	50	0.00	0	EW	EW	
77.11	77.42	0.31	0.11	35	0.00	0	EW	EW	
77.42	77.88	0.46	0.09	20	0.00	0	EW	EW	
77.88	78.33	0.45	0.22	49	0.00	0	EW	EW	
78.33	78.79	0.46	0.31	67	0.00	0	EW	EW	
78.79	79.10	0.31	0.29	94	0.00	0	EW	EW	
79.10	79.25	0.15	0.15	100	0.00	0	EW	EW	
79.25	79.71	0.46	0.25	54	0.00	0	EW	EW	
79.71	80.01	0.30	0.26	87	0.00	0	EW	EW	
80.01	80.16	0.15	0.08	53	0.00	0	EW	EW	
80.16	80.62	0.46	0.33	72	0.00	0	EW	EW	
80.62	81.08	0.46	0.20	43	0.00	0	EW	EW	
81.08	81.53	0.45	0.21	47	0.00	0	EW	EW	
81.53	81.69	0.16	0.06	38	0.00	0	EW	EW	
81.69	81.99	0.30	0.16	53	0.00	0	EW	EW	
81.99	82.30	0.31	0.12	39	0.00	0	EW	EW	
82.30	82.75	0.45	0.33	73	0.00	0	W	SW	
82.75	83.82	1.07	1.06	99	0.00	0	W	SW	
83.82	84.12	0.30	0.18	60	0.00	0	W	SW	
84.12	85.34	1.22	1.22	100	0.86	70	W	SW	
85.34	87.48	2.14	1.96	92	1.05	49	W	SW	
87.48	87.63	0.15	0.13	87	0.00	0	EW	EW	
87.63	88.09	0.46	0.25	54	0.00	0	EW	EW	
88.09	88.70	0.61	0.21	34	0.00	0	EW	EW	
88.70	88.85	0.15	0.06	40	0.00	0	EW	EW	
88.85	89.76	0.91	0.38	42	0.00	0	EW	EW	
89.76	90.22	0.46	0.04	9	0.00	0	EW	EW	
90.22	90.37	0.15	0.05	33	0.00	0	EW	EW	
90.37	90.83	0.46	0.46	100	0.00	0	EW	EW	
90.83	91.14	0.31	0.25	81	0.00	0	EW	EW	
91.14	91.74	0.60	0.21	35	0.00	0	EW	EW	
91.74	92.51	0.77	0.62	81	0.12	16	EW	EW	
92.51	92.66	0.15	0.15	100	0.00	0	EW	EW	
92.66	92.96	0.30	0.14	47	0.00	0	EW	EW	
92.96	93.42	0.46	0.32	70	0.00	0	EW	EW	
93.42	94.49	1.07	0.29	27	0.00	0	EW	EW	
94.49	95.10	0.61	0.53	87	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
95.10	95.25	0.15	0.09	60	0.00	0	EW	EW	
95.25	95.55	0.30	0.17	57	0.00	0	EW	EW	
95.55	96.32	0.77	0.32	42	0.00	0	EW	EW	
96.32	96.77	0.45	0.28	62	0.00	0	EW	EW	
96.77	97.23	0.46	0.10	22	0.00	0	EW	EW	
97.23	97.54	0.31	0.12	39	0.00	0	EW	EW	
97.54	99.06	1.52	1.36	89	0.30	20	W	SW	
99.06	100.58	1.52	1.21	80	0.26	17	W	SW	
100.58	102.11	1.53	0.72	47	0.43	28	W	SW	
102.11	103.63	1.52	1.16	76	0.65	43	W	SW	
103.63	105.16	1.53	1.45	95	0.25	16	W	SW	
105.16	106.68	1.52	1.27	84	0.37	24	W	SW	
106.68	108.20	1.52	1.49	98	0.53	35	W	SW	
108.20	109.73	1.53	1.28	84	0.64	42	W	SW	
109.73	111.25	1.52	1.39	91	0.85	56	W	SW	
111.25	112.78	1.53	1.40	92	0.39	25	W	SW	
112.78	114.30	1.52	1.42	93	0.45	30	W	SW	
114.30	115.82	1.52	1.52	100	1.08	71	W	SW	
115.82	117.35	1.53	1.51	99	0.89	58	W	SW	
117.35	118.87	1.52	1.41	93	0.83	55	W	SW	
118.87	120.40	1.53	1.41	92	1.17	76	W	SW	
120.40	121.92	1.52	1.52	100	1.45	95	W	SW	
121.92	123.44	1.52	1.49	98	1.25	82	W	SW	
123.44	124.97	1.53	1.51	99	1.15	75	W	SW	
124.97	126.49	1.52	1.50	99	1.13	74	W	SW	
126.49	128.02	1.53	1.53	100	1.28	84	W	SW	
128.02	129.54	1.52	1.46	96	0.84	55	W	SW	
129.54	131.06	1.52	1.52	100	1.07	70	W	SW	
131.06	132.59	1.53	1.38	90	0.69	45	W	SW	
132.59	133.35	0.76	0.76	100	0.00	0	W	SW	
133.35	135.03	1.68	1.60	95	0.72	43	W	SW	
135.03	135.64	0.61	0.53	87	0.26	43	W	SW	
135.64	137.16	1.52	1.48	97	0.88	58	W	SW	
137.16	138.68	1.52	1.52	100	1.10	72	W	SW	
138.68	139.29	0.61	0.50	82	0.00	0	W	SW	
139.29	140.21	0.92	0.89	97	0.00	0	W	SW	
140.21	141.73	1.52	1.48	97	1.01	66	W	SW	
141.73	143.26	1.53	1.45	95	0.83	54	W	SW	
143.26	144.78	1.52	1.28	84	0.37	24	W	SW	
144.78	145.69	0.91	0.60	66	0.00	0	W	SW	
145.69	147.22	1.53	1.31	86	0.00	0	W	MW	
147.22	148.59	1.37	0.89	65	0.00	0	W	MW	
148.59	149.66	1.07	0.64	60	0.00	0	W	MW	
149.66	150.57	0.91	0.72	79	0.12	13	W	MW	
150.57	151.49	0.92	0.39	42	0.00	0	W	MW	
151.49	151.79	0.30	0.19	63	0.00	0	W	MW	
151.79	153.31	1.52	1.11	73	0.00	0	W	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
153.31	154.53	1.22	0.85	70	0.00	0	W	MW	
154.53	155.91	1.38	0.97	70	0.00	0	W	MW	
155.91	156.97	1.06	0.94	89	0.22	21	W	MW	
156.97	158.50	1.53	1.14	75	0.00	0	EW	EW	
158.50	160.02	1.52	1.41	93	0.00	0	W	MW	
160.02	161.54	1.52	1.50	99	0.83	55	W	SW	
161.54	163.07	1.53	1.53	100	0.81	53	W	SW	
163.07	164.29	1.22	1.08	89	0.35	29	W	SW	
164.29	165.81	1.52	1.49	98	0.99	65	W	SW	
165.81	167.49	1.68	1.50	89	1.50	89	W	SW	
167.49	169.01	1.52	1.52	100	1.34	88	W	SW	
169.01	170.69	1.68	1.59	95	1.17	70	W	SW	
170.69	172.21	1.52	1.49	98	0.43	28	W	SW	
172.21	173.74	1.53	1.53	100	1.02	67	W	SW	
173.74	175.26	1.52	1.49	98	1.20	79	W	SW	
175.26	176.78	1.52	1.48	97	0.99	65	W	SW	
176.78	178.31	1.53	1.50	98	1.43	93	W	SW	
178.31	179.83	1.52	1.44	95	1.09	72	W	SW	
179.83	181.36	1.53	1.48	97	0.85	56	W	SW	
181.36	182.88	1.52	1.46	96	0.61	40	W	MW	
182.88	184.40	1.52	1.32	87	0.63	41	W	MW	
184.40	185.78	1.38	1.38	100	0.21	15	W	MW	
185.78	188.37	2.59	2.59	100	1.30	50	W	MW	
188.37	192.02	3.65	3.15	86	0.51	14	W	MW	
192.02	195.07	3.05	2.54	83	0.92	30	W	MW	
195.07	200.56	5.49	3.80	69	0.70	13	W	MW	
200.56	201.47	0.91	0.70	77	0.00	0	W	MW	
201.47	204.22	2.75	2.43	88	0.92	33	W	MW	
204.22	207.26	3.04	3.02	99	1.35	44	W	FR	
207.26	208.79	1.53	1.51	99	1.21	79	W	FR	
208.79	210.31	1.52	1.50	99	1.29	85	W	FR	
210.31	210.61	0.30	0.22	73	0.10	33	W	FR	
	210.60	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-22

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
58.83	61.72	2.89	2.66	92	H246917	5.0	4	<0.01	0.05	14	0.40	
61.72	64.31	2.59	2.04	79	H246918	4.0	4	<0.01	0.13	55	0.71	
64.31	67.21	2.90	1.41	49	H246919	2.5	4	0.22	16.75	5800	1225.00	
67.21	69.19	1.98	1.21	61	H246920	2.0	4	0.47	8.55	6080	564.00	
69.19	71.63	2.44	0.89	36	H246921	1.0	4	0.10	1.54	2330	309.00	
71.63	74.07	2.44	1.58	65	H246923	2.5	4	0.09	1.83	2420	244.00	
74.52	75.74	1.22	0.45	37	H246924	1.0	4	0.08	3.90	5030	229.00	
75.74	77.88	2.14	0.59	28	H246925	1.0	4	<0.01	0.67	160	3.31	
77.88	80.62	2.74	1.89	69	H246927	3.5	4	0.02	0.60	1460	29.40	
80.62	82.40	1.78	0.85	48	H246928	2.0	4	0.06	1.04	1180	15.65	
82.40	84.12	1.72	1.65	96	H246929	2.0	4	0.15	2.65	117	17.80	
84.12	87.16	3.04	3.04	100	H246930	5.0	4	0.02	0.26	33	4.03	
87.16	88.85	1.69	0.84	50	H246931	1.0	4	0.06	1.14	1430	115.00	
88.85	91.74	2.89	1.39	48	H246932	2.0	4	0.29	2.28	1020	128.50	
91.74	94.49	2.75	2.75	100	H246933	2.5	4	0.05	1.13	245	8.97	
94.49	96.77	2.28	1.29	57	H246935	2.0	4	0.07	4.30	961	83.30	
96.77	99.72	2.95	2.95	100	H246936	3.0	4	0.02	3.37	185	11.75	
99.72	102.11	2.39	1.76	74	H246937	3.0	4	0.02	1.19	60	5.04	
102.11	105.16	3.05	2.77	91	H246938	5.0	4	0.01	0.14	19	1.13	
140.21	143.26	3.05	3.05	100	H246939	6.0	4	0.03	0.06	16	4.33	
143.26	145.69	2.43	2.05	84	H246940	3.5	4	0.06	0.13	41	9.97	
145.69	148.59	2.90	2.50	86	H246941	3.5	4	0.11	0.24	48	14.70	
148.59	151.49	2.90	2.09	72	H246942	3.5	4	0.19	0.83	78	15.05	
151.49	154.53	3.04	2.48	82	H246944	4.5	4	0.14	0.50	45	12.20	
154.53	155.89	1.36	1.08	79	H246945	2.0	4	0.31	7.21	276	31.00	
155.89	156.85	0.96	0.96	100	H246946	2.0	4	0.04	0.15	58	4.27	
156.85	158.55	1.70	1.28	75	H246947	2.5	4	0.13	5.99	6730	95.30	
158.55	161.64	3.09	3.03	98	H246948	6.0	5	0.14	2.13	736	25.00	
161.64	164.29	2.65	2.61	98	H246949	5.0	5	0.06	0.03	106	7.92	
-	-	-			H246922	0.3	4	0.50	0.81	5130	94.30	Standard R-1

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H246926	4.0	4	<0.01	0.02	14	0.54	Blank
91.74	94.49	2.75	2.75	100	H246934	1.0	4	0.05	1.05	222	9.85	Duplicate
-	-	-			H246943	0.3	4	5.62	0.25	45600	483.00	Standard R-3

DENSITY LOG

HOLE: RAU-09-22

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
3.00	LST	FOS		12.0	4.2	475.3	299.3	2.86	2.70
7.00	LST	FOS		11.0	4.2	408.3	257.3	2.68	2.70
14.00	LST	FOS		10.0	4.2	379.8	239.8	2.74	2.71
19.25	LST	FOS		9.0	4.2	334.8	211.3	2.69	2.71
25.10	LST	FOS		8.0	4.2	300.5	188.9	2.71	2.69
31.30	LST	FOS		10.0	4.2	390.4	246.6	2.82	2.71
34.50	LST	FOS		10.0	4.2	329.0	205.4	2.37	2.66
38.90	LST	FOS		9.0	4.2	343.8	218.5	2.76	2.74
44.70	LST	FOS		11.0	4.2	372.5	235.3	2.44	2.72
49.00	LST	FOS		14.0	4.2	539.6	343.2	2.78	2.75
54.75	LST	FOS		11.0	4.2	396.2	249.0	2.60	2.69
60.00	LST	FOS		9.0	4.2	320.9	202.8	2.57	2.72
83.50	VOL	ALT		16.0	4.2	521.9	316.9	2.35	2.55
91.70	VOL	ALT		12.0	4.2	386.6	229.8	2.33	2.47
98.90	VOL	ALT		15.0	4.2	520.8	316.1	2.51	2.54
101.00	VOL	ALT		9.0	4.2	318.0	194.4	2.55	2.57
108.25	VOL	ALT		13.0	4.2	511.7	324.2	2.84	2.73
130.00	LST			12.0	4.2	483.0	311.4	2.91	2.81
136.10	LST			9.0	4.2	368.4	235.9	2.95	2.78
140.10	LST			10.0	4.2	403.7	252.3	2.91	2.67
189.40	LST	ALT		10.0	4.2	461.9	301.2	3.33	2.87
193.50	LST	ALT		13.5	4.2	525.5	339.1	2.81	2.82
204.30	LST	ALT		14.5	4.2	567.4	374.4	2.82	2.94
210.50	LST	ALT		10.0	4.2	406.6	262.2	2.93	2.82

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-22

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
2.00	LST	FOS	0.02	
3.00	LST	FOS	0.02	
4.00	LST	FOS	0.02	
5.00	LST	FOS	0.20	
6.00	LST	FOS	0.04	
7.00	LST	FOS	0.04	
8.00	LST	FOS	0.02	
9.00	LST	FOS	0.04	
10.00	LST	FOS	0.04	
11.00	LST	FOS	0.02	
12.00	LST	FOS	0.02	
13.00	LST	FOS	0.02	
14.00	LST	FOS	0.02	
15.00	LST	FOS	0.02	
16.00	LST	FOS	0.06	
17.00	LST	FOS	0.04	
18.00	LST	FOS	0.04	
19.00	LST	FOS	0.04	
20.00	LST	FOS	0.04	
21.00	LST	FOS	0.02	
22.00	LST	FOS	0.06	
23.00	LST	FOS	0.02	
24.00	LST	FOS	0.02	
25.00	LST	FOS	0.02	
26.00	LST	FOS	0.06	
27.00	LST	FOS	0.02	
28.00	LST	FOS	0.02	
29.00	LST	FOS	0.04	
30.00	LST	FOS	0.12	
31.00	LST	FOS	0.08	
32.00	LST	FOS	0.04	
33.00	LST	FOS	0.02	
34.00	LST	FOS	0.08	
35.00	LST	FOS	0.08	
36.00	LST	FOS	0.04	
37.00	LST	FOS	0.04	
38.00	LST	FOS	0.02	
39.00	LST	FOS	0.10	
40.00	LST	FOS	0.06	
41.00	LST	FOS	0.02	
42.00	LST	FOS	0.06	
43.00	LST	FOS	0.04	
44.00	LST	FOS	0.02	
45.00	LST	FOS	0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
46.00	LST	FOS	0.02	
47.00	LST	FOS	0.12	
48.00	LST	FOS	0.00	
49.00	LST	FOS	0.10	
50.00	LST	FOS	0.02	
51.00	LST	FOS	0.06	
52.00	LST	FOS	0.22	
53.00	LST	FOS	0.04	
54.00	LST	FOS	0.02	
55.00	LST	FOS	0.00	
56.00	LST	FOS	0.00	
57.00	LST	FOS	0.00	
58.00	LST	FOS	0.04	
59.00	LST	FOS	0.04	
60.00	LST	FOS	0.02	
61.00	LST	FOS	0.02	
62.00	LST	FOS	0.02	
63.00	LST	FOS	0.02	
64.00	LST	FOS	0.00	
65.00	OX	RBL	0.90	
66.00	OX	RBL	2.27	
67.00	OX	RBL	3.17	
68.00	OX	RBL	0.38	
69.00	OX	RBL	0.16	
70.00	OX	RBL	0.41	
71.00	OX	RBL	0.20	
72.00	OX	RBL	0.65	
73.00	OX	RBL	0.02	
74.00	OX	RBL	0.36	
75.00	OX	RBL	0.06	
76.00	OX	RBL	0.00	
77.00	OX	RBL	0.00	
78.00	LST	ALT	1.68	
79.00	LST	ALT	0.08	
80.00	LST	ALT	0.08	
81.00	LST	ALT	0.06	
82.00	LST	ALT	0.60	
83.00	VOL	ALT	0.04	
84.00	VOL	ALT	0.06	
85.00	VOL	ALT	0.06	
86.00	VOL	ALT	0.04	
87.00	VOL	ALT	0.10	
88.00	VOL	ALT	0.04	
89.00	VOL	ALT	0.14	
90.00	VOL	ALT	0.26	
91.00	VOL	ALT	0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
92.00	VOL	ALT	0.08	
93.00	VOL	ALT	0.14	
94.00	VOL	ALT	0.06	
95.00	VOL	ALT	0.10	
96.00	VOL	ALT	0.06	
97.00	VOL	ALT	0.04	
98.00	VOL	ALT	0.10	
99.00	VOL	ALT	0.04	
100.00	VOL	ALT	0.04	
101.00	VOL	ALT	0.06	
102.00	VOL	ALT	0.08	
103.00	VOL	ALT	0.08	
104.00	VOL	ALT	0.18	
105.00	VOL	ALT	0.02	
106.00	VOL	ALT	0.06	
107.00	VOL	ALT	0.02	
108.00	VOL	ALT	0.06	
109.00	VOL	ALT	0.08	
110.00	VOL	ALT	0.06	
111.00	VOL	ALT	0.08	
112.00	VOL	ALT	0.06	
113.00	VOL	ALT	0.04	
114.00	VOL	ALT	0.04	
115.00	LST		0.06	
116.00	LST		0.06	
117.00	LST		0.08	
118.00	LST		0.04	
119.00	LST		0.02	
120.00	LST		0.04	
121.00	LST		0.04	
122.00	LST		0.00	
123.00	LST		0.06	
124.00	LST		0.04	
125.00	LST		0.04	
126.00	LST		0.08	
127.00	LST		0.08	
128.00	LST		0.04	
129.00	LST		0.04	
130.00	LST		0.14	
131.00	LST		0.01	
132.00	LST		0.06	
133.00	LST		0.08	
134.00	LST		0.04	
135.00	LST		0.04	
136.00	LST		0.06	
137.00	LST		0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
138.00	LST		0.16	
139.00	LST		0.06	
140.00	LST		0.04	
141.00	LST		0.06	
142.00	LST		0.08	
143.00	LST		0.06	
144.00	LST	FOS	0.04	
145.00	LST	FOS	0.04	
146.00	LST	FOS	0.08	
147.00	LST	FOS	0.02	
148.00	LST	FOS	0.10	
149.00	LST	FOS	0.08	
150.00	LST	FOS	0.08	
151.00	LST	FOS	0.36	
152.00	LST	FOS	0.10	
153.00	LST	FOS	0.08	
154.00	LST	FOS	0.14	
155.00	LST	FOS	0.22	
156.00	LST	FOS	0.14	
157.00	OX		0.34	
158.00	OX		0.16	
159.00	LST	ALT	0.20	
160.00	LST	ALT	0.06	
161.00	LST	ALT	0.08	
162.00	LST	ALT	1.43	
163.00	LST	ALT	0.18	
164.00	LST	ALT	1.00	
165.00	LST	ALT	0.18	
166.00	LST	ALT	0.49	
167.00	LST	ALT	0.26	
168.00	LST	ALT	0.36	
169.00	LST	ALT	2.31	
170.00	LST	ALT	0.20	
171.00	LST	ALT	0.41	
172.00	LST	ALT	0.28	
173.00	LST	ALT	0.24	
174.00	LST	ALT	0.53	
175.00	LST	ALT	0.34	
176.00	LST	ALT	0.92	
177.00	LST	ALT	0.55	
178.00	LST	ALT	0.53	
179.00	LST	ALT	0.14	
180.00	LST	ALT	0.10	
181.00	LST	ALT	0.14	
182.00	LST	ALT	0.12	
183.00	LST	ALT	0.14	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
184.00	LST	ALT	0.16	
185.00	LST	ALT	0.08	
186.00	LST	ALT	0.05	
187.00	LST	ALT	0.03	
188.00	LST	ALT	0.01	
189.00	LST	ALT	0.03	
190.00	LST	ALT	0.00	
191.00	LST	ALT	0.03	
192.00	LST	ALT	0.01	
193.00	LST	ALT	0.00	
194.00	LST	ALT	0.00	
195.00	LST	ALT	0.03	
196.00	LST	ALT	0.01	
197.00	LST	ALT	0.06	
198.00	LST	ALT	0.01	
199.00	LST	ALT	0.11	
200.00	LST	ALT	0.00	
201.00	LST	ALT	0.00	
202.00	LST	ALT	0.01	
203.00	LST	ALT	0.01	
204.00	LST	ALT	0.00	
205.00	LST	ALT	0.01	
206.00	LST	ALT	0.01	
207.00	LST	ALT	0.01	
208.00	LST	ALT	0.08	
209.00	LST	ALT	0.01	
210.00	LST	ALT	0.00	

BOX LOG

HOLE: RAU-09-22

BOX	FROM (m)	TO (m)		BOX	FROM (m)	TO (m)
1	0.00	5.88		36	191.21	196.06
2	5.88	11.15		37	196.06	202.57
3	11.15	15.85		38	202.57	207.80
4	15.85	21.03		39	207.80	210.62
5	21.03	26.10			210.62	E.O.H.
6	26.10	31.30				
7	31.30	36.26				
8	36.26	41.76				
9	41.76	46.84				
10	46.84	51.70				
11	51.70	57.30				
12	57.30	62.55				
13	62.55	68.80				
14	68.80	76.81				
15	76.81	82.30				
16	82.30	87.63				
17	87.63	94.90				
18	94.90	100.56				
19	100.56	106.62				
20	106.62	112.01				
21	112.01	117.49				
22	117.49	123.18				
23	123.18	128.80				
24	128.80	134.30				
25	134.30	139.94				
26	139.90	145.15				
27	145.15	150.57				
28	150.57	155.91				
29	155.91	161.24				
30	161.24	164.29				
31	164.29	69.97				
32	169.97	175.36				
33	175.63	181.08				
34	181.08	185.78				
35	185.78	191.21				

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-23
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528343.11	7119314.36	1354.48	99.97

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-75	compass				

Core size: HQ
Casing depth: 15.85 (m) out

Drilling dates: June 25-30, 2009

Logged by: J. Lane

Target: Down dip from Rau-09-19

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.37	2.37	OVB	
2.37	25.55	23.18	LST	Altered
25.55	26.10	0.55	MBL	
26.10	34.44	8.34	LST	Altered
34.44	51.39	16.95	LST	Altered
51.39	54.20	2.81	LST	Clay rich
54.20	58.33	4.13	LST	Altered
58.33	77.11	18.78	OX	Clay rich
77.11	96.93	19.82	OX	Rubbly
96.93	99.97	3.04	LST	Altered

SAMPLES

Numbers: H246984-H247018
Batch 6
Total: 35
Date sent: July 4, 2009
Certificate: VA09068946

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-23

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.37	2.37	OVB																			
2.37	25.55	23.18	LST	ALT	BD	BN	40															Thinly banded light to dark grey limestone The unit is quite broken up and rubbly. Fractured surfaces are weakly carbonate altered. Yellow brown clay occurs. It fizzes with acid and is likely a strongly clay altered limestone.
																						19.20-19.70 m: Yellowy brown clay zone. Clay contains quartz and limestone fragments, which are sub-angular to sub-rounded (FAULT??)
																						23.77-25.10 m: Very rubbly zone with limestone fragments held together by yellow-orange-brown clay (FAULT???)
25.55	26.10	0.55	MBL		BD	BN	20															Carbonate altered marble with medium grey silty beds running at 20 deg to CA.
26.10	34.44	8.34	LST	ALT	BD	BN	45															Very broken and rubbly , carbonate altered, medium grey limestone. Zones contain strongly altered limestone that has turned to clay. It fizzes with acid.
				CLY																		30.11- 30.28 m: Tan/brown clay with fragments of limestone
				CLY																		31.39-32.92 m: Tan/ brown clay with small ~1cm fragments of limestone.
34.44	51.39	16.95	LST	ALT	BD	BN	40															Moderately carbonate altered limestone. Can see faint bedding at 40 deg to Ca. Slightly brecciated. Thin black fractures run at 35 and 65 deg to CA.
					BX	FR	35															
						FR	65															
																						36.25-38.75 m: Zone of very rubbly altered limestone.
																						39.76-40.54m: Small rubbly zone of quartz/ marble (poor recovery)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
51.39	54.20	2.81	LST	CLY																		Yellow-brown carbonate clay with quartz fragments 0.5-2 cm in diameter and occasional fragments of limestone. Fragments are all angular. (FAULT ZONE???)
54.20	58.33	4.13	LST	ALT	BX					w												Mixed banded limestone and highly altered limestor clay. The limestone has a brecciated texture. ~40 % of the interval is slightly orange-brown clay with limestone fragments. Clay fizzes with acid.
58.33	77.11	18.78	OX	CLY		BD	90															Yellow brown grading to dark orange red brown clay with zones containing subrounded to subangular limestone rubbly fragments. Quartz grit and rubbly also occurs locally within. From 60-69 m faint bands occur roughly perpendicular to the core axis within the clay.
																						58.78-58.83 m: Piece of banded limestone.
																						58.83-60.35 m: Yellow brown grading to dark tan brown clay with 20 cm zone of cobbly limestone fragments.
																						60.35-61.87 m: Orange- brown to dark red brown clay with small (<5 cm) pieces of banded limestone.
																						61.87-63.84m: Orange-brown clay- very poor recovery. Small coarse grained sand sized quartz and limestone fragments.
																						63.84-64.92 m: Dark orange red clay with ~ 1 cm angular pieces of very dark red brown limonite.
																						64.92-66.45 m: Dark maroon brown clay with some angular limonite fragments.
																						66.45-67.97 m: Grey brown clay containing red-brown compact clay fragments. At the beginning there is a yellow clay coating.
						BD	90															67.97-69.49 m: Starts with 10 cm of grey quartz sand/grit containing 0.5 cm quartz fragments. Followed by orange-red clay the first 20 cm of which is more yellow in colour and harder. Different coloured (yellow, red, orange) bands run roughly perpendicular to the CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						69.49-71.02 m: Orange/red clay.
																						71.02-72.54 m: Orange/yellow clay with some 10 cm zones of more competent limonitic zones.
																						72.54-74.02 m: Orange brown clay with a fragment (5 cm) of limestone. (Poor recovery).
																						74.02-75.59 m: Orange brown clay with limonite fragments 5-10 cm.
																						75.59-77.11 m: Orange-brown clay. No visible fragments.
77.11	96.93	19.82	OX	RBL																		The oxide zone is becoming increasingly more limonitic in composition. It is typically a medium to dark reddish purplish brown still with a clay component, but more of a gritty rubble.
																						77.11-78.64 m: First 1 m is deep purple-brown gritty sand with 1/2 to 1 cm angular limonite fragments.
																						78.64-80.16 m: Orange-brown gritty clay with sand sized rock fragments.
																						80.16-81.69 m: Reddish-brown gritty oxide compacted clay. Gritty zones appear to be more limonitic.
																						81.69-83.21 m: Reddish-brown gritty limonitic oxide with some clay rich zones.
																						83.21-84.73 m: Reddish-purple-brown gritty limonitic oxide with minor interstitial clay holding grains together.
																						84.73-86.26 m: Reddish-purple-brown gritty limonitic oxide with clay holding grains together. Larger 1 cm angular fragments of limonite also occur.
																						86.26-87.78 m: Dirty brown gritty limonitic oxide with interstitial clay and 1-2 cm purple-brown limonitic fragments.
																						87.78-89.31 m: Dirty brown gritty limonitic oxide with interstitial clay and 2-3 cm limonite fragments.
																						89.31-90.83 m: Orange-red gritty clay oxide with some 1 cm angular limonite fragments.
																						90.83-93.88 m: Boxwork limonite almost black on fresh surfaces and very porous.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						93.88-95.40 m: Begins with 15 cm sandy grit zone then intermixed with dark purple brown limonite fragments ~ 1-5 cm in size.
																						95.40-96.93 m: 15 cm yellow-brown clay grit zone. The rest is deep brown to almost black limonite fragments <1 - 1 cm in size.
96.93	99.97	3.04	LST	ALT	BX																	Brecciated and fluid altered medium grey limestone Rubbly from 98.20-99.97 m.
																						99.97 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-23

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.96	3.96	0.22	6	0.00	0	MS	FR	
3.96	5.49	1.53	0.81	53	0.25	16	MS	FR	
5.49	7.01	1.52	0.93	61	0.23	15	VS	FR	
7.01	8.53	1.52	1.00	66	0.13	9	S	FR	
8.53	10.06	1.53	0.56	37	0.24	16	S	FR	
10.06	11.58	1.52	0.90	59	0.40	26	S	SW	
11.58	13.11	1.53	1.10	72	0.22	14	MS	SW	
13.11	14.63	1.52	0.33	22	0.13	9	S	SW	
14.63	16.15	1.52	0.25	16	0.00	0	VS	SW	
16.15	17.68	1.53	0.40	26	0.00	0	MS	SW	
17.68	19.20	1.52	0.42	28	0.00	0	MS	SW	
19.20	20.73	1.53	1.01	66	0.55	36	VS	SW	
20.73	22.25	1.52	0.67	44	0.31	20	S	SW	
22.25	23.77	1.52	0.36	24	0.19	13	S	SW	
23.77	25.30	1.53	0.72	47	0.50	33	VS	SW	
25.30	26.82	1.52	1.23	81	0.64	42	S	SW	
26.82	28.35	1.53	0.81	53	0.10	7	S	SW	
28.35	29.87	1.52	0.68	45	0.00	0	VS	SW	
29.87	31.39	1.52	0.84	55	0.40	26	VS	SW	
31.39	32.92	1.53	0.86	56	0.62	41	MS	SW	
32.92	34.44	1.52	0.62	41	0.26	17	S	SW	
34.44	35.97	1.53	1.53	100	1.05	69	MS	SW	
35.97	37.49	1.52	1.18	78	0.50	33	S	SW	
37.49	39.01	1.52	1.43	94	0.42	28	S	SW	
39.01	40.54	1.53	0.84	55	0.55	36	S	SW	
40.54	42.06	1.52	0.97	64	0.11	7	S	SW	
42.06	43.59	1.53	0.99	65	0.36	24	S	SW	
43.59	45.11	1.52	0.78	51	0.26	17	S	SW	
45.11	46.63	1.52	0.94	62	0.40	26	MS	SW	
46.63	48.16	1.53	1.26	82	0.69	45	S	SW	
48.16	49.68	1.52	0.95	62	0.63	41	S	SW	
49.68	51.21	1.53	0.38	25	0.20	13	VS	EW	
51.21	52.73	1.52	1.19	78	0.96	63	S	EW	
52.73	54.25	1.52	0.88	58	0.60	39	W	EW	
54.25	55.78	1.53	1.50	98	1.32	86	MS	EW	
55.78	57.30	1.52	1.23	81	0.36	24	MS	EW	
57.30	58.83	1.53	1.50	98	1.19	78	MS	EW	
58.83	60.35	1.52	0.83	55	0.24	16	W	EW	
60.35	61.87	1.52	1.52	100	0.33	22	W	EW	
61.87	63.40	1.53	0.45	29	0.20	13	W	EW	
63.40	64.92	1.52	1.52	100	0.12	8	W	EW	
64.92	66.45	1.53	0.33	22	0.10	7	W	EW	
66.45	67.97	1.52	0.58	38	0.12	8	W	EW	
67.97	69.49	1.52	0.90	59	0.41	27	W	EW	
69.49	71.02	1.53	1.31	86	0.84	55	W	EW	
71.02	72.54	1.52	1.52	100	0.79	52	W	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	0.43	28	0.12	8	W	EW	
74.07	75.59	1.52	1.52	100	0.31	20	W	EW	
75.59	77.11	1.52	1.25	82	0.71	47	W	EW	
77.11	78.64	1.53	1.17	76	0.52	34	W	EW	
78.64	80.16	1.52	1.36	89	0.92	61	W	EW	
80.16	81.69	1.53	1.53	100	1.13	74	W	EW	
81.69	83.21	1.52	1.45	95	0.83	55	W	EW	
83.21	84.73	1.52	1.52	100	0.53	35	W	EW	
84.73	86.26	1.53	1.45	95	0.81	53	W	EW	
86.26	87.78	1.52	1.05	69	0.70	46	W	EW	
87.78	89.31	1.53	1.48	97	0.40	26	W	EW	
89.31	90.83	1.52	0.52	34	0.15	10	W	EW	
90.83	92.35	1.52	0.84	55	0.26	17	W	EW	
92.35	93.88	1.53	0.19	12	0.00	0	W	EW	
93.88	95.40	1.52	1.02	67	0.43	28	W	EW	
95.40	96.93	1.53	1.18	77	0.00	0	W	EW	
96.93	98.45	1.52	1.07	70	0.84	55	MS	MW	
98.45	99.97	1.52	0.53	35	0.14	9	MS	MW	
	99.97	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-23

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
19.20	22.25	3.05	1.64	54	H246984	6.5	6	<0.01	0.09	59	0.49	
22.25	25.30	3.05	1.23	40	H246985	5.0	6	<0.01	0.64	141	2.22	
25.30	28.35	3.05	0.86	28	H246986	5.5	6	<0.01	0.09	49	0.33	
28.35	31.39	3.04	1.54	51	H246987	4.4	6	0.01	0.27	114	0.32	
31.39	34.44	3.05	1.60	52	H246988	4.0	6	0.01	0.45	446	3.48	
34.44	37.49	3.05	1.70	56	H246991	0.0	6	0.03	0.31	163	0.15	
37.49	40.54	3.05	2.00	66	H246992	7.5	6	0.03	0.50	256	0.28	
40.54	43.59	3.05	2.04	67	H246993	7.5	6	0.04	0.52	234	0.71	
43.59	46.63	3.04	1.72	57	H246994	5.5	6	0.02	0.67	412	1.20	
46.63	49.68	3.05	1.95	64	H246995	7.5	6	0.16	0.54	340	8.65	
49.68	51.39	1.71	0.56	33	H246996	2.0	6	0.07	1.13	611	7.92	
51.39	54.20	2.81	1.77	63	H246997	7.5	6	0.03	1.06	1150	22.20	
54.20	56.00	1.80	1.63	91	H246998	7.5	6	0.05	0.94	933	27.00	
56.00	58.33	2.33	1.91	82	H246999	6.0	6	0.02	0.19	182	2.22	
58.33	60.35	2.02	1.23	61	H247000	4.0	6	0.07	3.71	2450	66.60	
60.35	63.40	3.05	1.95	64	H247001	5.5	6	1.42	4.87	18300	396.00	
63.40	66.45	3.05	2.68	88	H247002	9.0	6	3.22	0.81	41100	321.00	
66.45	67.97	1.52	0.52	34	H247003	1.0	6	89.20	6.03	176000	5260.00	
67.97	69.49	1.52	0.79	52	H247005	2.0	6	48.00	4.01	157500	>10000	
69.49	72.54	3.05	2.85	93	H247006	8.5	6	10.30	5.56	61900	957.00	
72.54	75.59	3.05	1.88	62	H247007	5.5	6	2.10	2.91	27300	494.00	
75.59	77.11	1.52	1.27	84	H247008	4.0	6	1.03	6.07	26300	433.00	
77.11	78.64	1.53	1.25	82	H247009	3.0	6	0.35	16.20	31000	68.90	
78.64	81.69	3.05	2.85	93	H247010	9.5	6	0.21	4.50	18200	563.00	
81.69	84.73	3.04	2.90	95	H247011	10.5	6	0.62	2.70	16100	406.00	
84.73	87.78	3.05	2.44	80	H247012	8.0	6	0.46	3.24	22200	262.00	
87.78	90.83	3.05	1.86	61	H247013	6.0	6	0.04	1.83	17300	647.00	
90.83	93.88	3.05	1.28	42	H247015	3.5	6	0.06	0.68	16400	10.55	
93.88	96.93	3.05	2.56	84	H247016	7.5	6	0.06	1.18	12100	6.32	
96.93	99.97	3.04	1.58	52	H247018	5.5	6	0.04	0.21	270	0.97	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-	-	-	H246989	4.5	6	<0.01	0.01	8	0.11	Blank
31.39	34.44	3.05	0.60	20	H246990	2.5	6	0.01	0.50	512	3.04	Duplicate
-	-	-	-	-	H247004	0.3	6	1.64	1.75	26500	361.00	Standard R-2
-	-	-	-	-	H247014	0.3	6	5.63	0.21	47600	497.00	Standard R-3
-	-	-	-	-	H247017	3.5	6	0.03	0.02	37	0.47	Blank

DENSITY LOG

HOLE: RAU-09-23

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
11.44	LST	ALT		12.0	6.1	1081.6	679.5	3.06	2.69
20.62	LST	ALT		11.0	6.1	858.2	599.5	2.65	3.32
35.56	LST	ALT		11.0	6.1	770.7	483.2	2.38	2.68
36.12	LST	ALT		12.0	6.1	905.9	577.8	2.57	2.76
39.15	LST	ALT		9.0	6.1	738.7	464.0	2.79	2.69
46.70	LST	ALT		12.0	6.1	1093.6	688.2	3.10	2.70
54.28	LST	ALT		3.0	6.1	872.2	550.1	9.88	2.71
57.13	LST	ALT		10.5	6.1	776.3	488.4	2.51	2.70
97.05	LST	ALT		13.0	6.1	1091.1	690.2	2.85	2.72

MAGNETIC SUSCEPTIBILITY

HOLE: RAU-09-23

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

MAGNETIC SUSCEPTIBILITY

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST	ALT	0.00	
46.00	LST	ALT	0.23	
47.00	LST	ALT	0.06	
48.00	LST	ALT	0.03	
49.00	LST	ALT	0.05	
50.00	LST	ALT	0.00	
51.00	LST	ALT	0.05	
52.00	LST	CLY	0.08	
53.00	LST	CLY	0.23	
54.00	LST	CLY	0.08	
55.00	LST	ALT	0.03	
56.00	LST	ALT	0.08	
57.00	LST	ALT	0.01	
58.00	LST	ALT	0.03	
59.00	OX	CLY	0.57	
60.00	OX	CLY	2.06	
61.00	OX	CLY	3.61	
62.00	OX	CLY	0.62	
63.00	OX	CLY	0.55	
64.00	OX	CLY	8.04	
65.00	OX	CLY	1.09	
66.00	OX	CLY	0.68	
67.00	OX	CLY	0.68	
68.00	OX	CLY	1.10	
69.00	OX	CLY	0.78	
70.00	OX	CLY	0.48	
71.00	OX	CLY	0.43	
72.00	OX	CLY	0.57	
73.00	OX	CLY	0.55	
74.00	OX	CLY	0.48	
75.00	OX	CLY	0.53	
76.00	OX	CLY	0.62	
77.00	OX	CLY	0.72	
78.00	OX	RBL	0.55	
79.00	OX	RBL	0.57	
80.00	OX	RBL	0.68	
81.00	OX	RBL	0.85	
82.00	OX	RBL	0.77	
83.00	OX	RBL	0.50	
84.00	OX	RBL	0.97	
85.00	OX	RBL	0.65	
86.00	OX	RBL	0.57	
87.00	OX	RBL	0.67	
88.00	OX	RBL	0.57	
89.00	OX	RBL	0.75	
90.00	OX	RBL	0.70	

MAGNETIC SUSCEPTIBILITY

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
91.00	OX	RBL	0.92	
92.00	OX	RBL	0.45	
93.00	OX	RBL	0.38	
94.00	OX	RBL	0.68	
95.00	OX	RBL	0.30	
96.00	OX	RBL	0.36	
97.00	LST	ALT	0.31	
98.00	LST	ALT	0.05	
99.00	LST	ALT	0.25	

BOX LOG

HOLE: RAU-09-23

BOX	FROM (m)	TO (m)		BOX	FROM (m)	TO (m)
1	0.00	8.53				
2	8.53	16.15				
3	16.15	24.19				
4	24.19	30.10				
5	30.10	35.97				
6	35.97	40.54				
7	40.54	46.38				
8	46.38	52.35				
9	52.35	57.13				
10	57.13	61.54				
11	61.54	66.66				
12	66.66	72.05				
13	72.05	77.67				
14	77.67	81.96				
15	81.96	86.26				
16	86.26	92.35				
17	92.35	99.50				
18	99.50	99.97				
	99.07	E.O.H.				

RAU PROJECT

ZONE: Tiger
SECTION: 9+850E

HOLE: Rau09-24
CLAIM: Rau56

Easting	Northing	Elev.	Depth (m)
528609.2	7118944.18	1300.51	207.27

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: BTW
Casing depth: 6.10 (m) out

Drilling dates: June 27-July 1, 2009

Logged by: J. Lane

Target: Up section from Rau-08-09

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	5.18	5.18	OVB	
5.18	71.47	66.29	LST	Brecciated (altered near surface)
71.47	75.00	3.53	OX	With altered volcaniclastic layer within
75.00	76.81	1.81	LST	Brecciated
76.81	82.66	5.85	OX	Clay rich
82.66	87.80	5.14	DOL	
87.80	89.04	1.24	VOL	
89.04	90.60	1.56	MBL	
90.60	91.89	1.29	OX	
91.89	94.49	2.60	DOL	
94.49	100.12	5.63	MBL	
100.12	102.41	2.29	LST	Crackle
102.41	114.10	11.69	MBL	
114.10	122.23	8.13	OX	
122.23	207.27	85.04	MBL	

SAMPLES

Numbers: H247019-H247052
Batches 6 & 7
Total: 34
Date sent:
Certificate: VA09068946, VA09072700

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-24

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	5.18	5.18	OVB																			Overburden.
5.18	56.72	51.54	LST	ALT	BX	VN	50		m													Highly brecciated moderately dolomitized limestone with sub-rounded to sub-angular matrix supported clasts. Banding picks up later on in the interval. Thin calcite veinlets cut the unit at 50 deg to CA. Fractured surfaces have a slight orange brown alteration stain on them.
						BD	70															10.06-15.16 m: Banding is represented by thin dark grey stylolites running at 70 deg to CA.
																						15.16-42.60 m: The interval is becoming increasingly more (80%) brecciated. The clasts are more rounded in shape as though they have been milled or ground. Also this zone is becoming highly fractured.
																						21.64 m: 5 cm of silty sand. Medium brown in colour.
						VN	60															29.00 m: Classic open fill calcite veins cutting breccia 60 deg to CA. These veins are 2-5 mm thick and have a dark line in the middle. The calcite is quite coarse grained.
						BN	70															42.60-47.25 m: The limestone is now less brecciated (10%) with some evidence of open cavity calcite growth (very coarse subhedral crystals). The interval is still rather rubbly and the fractured surfaces are carbonate altered.
																						Mottled-camo textured limestone with a medium to dark grey texture.
																						48.39-51.19 m: Calcite vein brecciation. Clasts are sub-angular to angular and 1/2 to 3 cm in diameter and are matrix supported.
						VN	50															51.19-56.72 m: Medium to dark grey limestone with fluid alteration and Ca stockwork veining. Veining follows rough orientation between 50-65 deg. Moderate to strong carbonate alteration of the fractured surfaces.
						VN	65															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
56.72	59.48	2.76	OX	CLY																		Dark brown to orange brown oxide clay containing a few rubbly cobbles of limestone concentrated at the start of one of the drill runs.
59.48	71.47	11.99	LST		BX	VN	50															Fluid brecciated medium to dark grey limestone. Areas that are not as highly brecciated have a camo-mottled texture. Ca veins cut the limestone at 50 deg to CA.
																						65.03-65.72 m: Zone of fluid collapse breccia. Clasts are 3-5 mm and sub-rounded to sub-angular in shape.
																						65.72-71.47 m: Intensely altered fluid brecciated limestone, very rubbly with clay coatings on fractures.
71.47	72.85	1.38	OX	CLY																		Medium orange brown oxide clay with small (1-3 cm) fragments of intensely oxidized limestone. Contains very fine grained flakes of fine grained yellow mica.
72.85	74.52	1.67	VOL	ALT		FO	40															Yellowy orange strongly clay altered volcaniclastic with a faint foliation at 40 deg to CA. At the end of the interval there is a fragment of coarse crystalline quartz in a limonitic rock fragment 30 cm long.
74.52	75.00	0.48	OX	CLY																		Medium brown clay zone with small < 1 cm foliated fragments of dark grey limestone. (30%)
75.00	76.81	1.81	LST	ALT	BX	VN	40		s													Medium to dark grey fluid collapse brecciated strongly dolomitized limestone with Ca veinlets cutting at 40 deg to CA.
76.81	82.66	5.85	OX	CLY																		Light to medium orange brown oxidized clay with sand to grit sized fragments within.
																						79.86-81.69 m: Light yellowy orange highly oxidized volcaniclastic. Mostly just thin fragments mixed with clay.
						FO	50															80.31-81.40 m: Zone of thinly foliated extremely oxidized volcaniclastic (?)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
82.66	87.80	5.14	DOL	ALT	BX	VN	50								t							Dark grey/brown dolomite showing severe fluid collapse brecciation marked by brown altered stringer veinlets crackling the unit. Quartz carbonate replacement zones occur. Rare thin quartz veinlets with associated pyrite cut breccia at 62.80 m. Zones 5-10 cm long of oxidized clay are occasionally intermixed within the interval.
87.80	89.04	1.24	VOL		FO	FO	30															Extremely fissile volcaniclastic (?) with yellow oxidized colour.
89.04	90.60	1.56	MBL		FO	FO	65															Zone of white marble with 20 % thin 2-3 mm dark grey layers. Core is considerable more competent than surrounding units.
90.60	94.49	3.89	DOL	ALT		BD	50															Extremely carbonate altered deep chocolate brown clay with coarse crystalline fragments of dolomite. Dolomite fragments have a very vuggy texture interval has a vuggy appearance.
						VN	15	270														91.89-94.49 m: Extremely altered fine grained dolomite. Unit has green brown colour with dark speckles. The crosscutting veins seem more highly altered and fizz considerably more than surrounding rocks.
																						91.48-92.96 m: Very rubbly zone
																						93.55-94.49 m: Very rubbly zone with some yellowish orange brown clay coated fractures.
94.49	99.97	5.48	MBL		BD	BN	40			s												Light to medium grey banded marble with 60% medium grey bands and 40% whitish grey bands. The marble is intermixed with extremely sericite altered volcaniclastic. Overall 80% marble, 20% volcaniclastic.
99.97	100.12	0.15	OX	RBL																		Highly oxidized rubble mixed with tan brown clay. Rock fragments appear similar to the mixed interval above.
100.12	102.41	2.29	LST		CR	VN																Medium grey-brown to dark chocolate brown altered limestone. Thin intensely altered veinlets run at 20 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
102.41	114.10	11.69	MBL			BD	60															Light grey banded marble with thin < 1mm medium grey bands (~5%)
																						103.54-103.95 m: Greyish brown gritty oxide rubble
																						104.41-104.85 m: Medium to dark brown gritty oxide rubble.
																						106.67-07.37 m: Medium brown slightly sandy clay oxide.
																						109.71-111.04 m: Medium brown sandy rubbly clay rich oxide.
						BD	60															112.02-114.10 m: Medium and light grey banded marble 40% medium grey, 60 % white to light grey. Bands are not perfectly liner, more crackled looking
114.10	122.23	8.13	OX		BD	BN	60															Intermixed dark red and brown gritty rubble/clay with zones ~20 cm of dark grey limestone with cross cutting Ca veins.
122.23	207.27	85.04	MBL		BD	BN	60															Light grey marble (70%) with dark interlayers (30%) There appear to be relict crinoid stem fragments tha are resistant to the banding and occur <1%.
						BN	45															128.50-159.29 m: A more pure white marble with 5-10% medium grey interlayers.
						CN	85															149.82-149.98 m: Very sharp contact with a dark grey intrusive (?) Contains crystals that gradually become more concentrated at depth.
						BN	40															159.29-171.42 m: Increase in the medium to dark grey horizons in the marble to 40% Appears to be more structurally induced banding than sedimentation related layers. The banding gradually becomes more and more erratic towards the bottom of the interval. Crinoid fragments resist banding (~1%). Coarse grained dotted areas may represent coral masses.
																						171.42-176.89 m: More pure marble with only trace dark grey patches.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BN	30															176.89-177.55 m: Banded marble with crinoid stems 0.7 mm in diameter. 30% dark grey bands, 70% white marble.
						BN	40															177.55-181.10 m: More pure white marble, very faint banding. Slight orange tint.
																						181.10-183.65 m: Banded marble ~ 30% dark grey bands, 70 % white- light grey marble. Banding is slightly convoluted.
																						183.65-207.27 m: Pure white marble with weak orange stain in some areas. Almost no grey banding.
															f							200.65 - 200.85 m: Fair pyrite occurs as individual subhedral crystals within the white marble.
																						207.27 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-24

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	2.74	2.74	0.14	5	0.00	0	MS	SW	
2.74	5.18	2.44	0.30	12	0.00	0	MS	SW	
5.18	6.10	0.92	0.81	88	0.22	24	MS	SW	
6.10	7.01	0.91	0.84	92	0.18	20	MS	SW	
7.01	8.53	1.52	1.52	100	0.48	32	MS	SW	
8.53	10.06	1.53	1.09	71	0.12	8	MS	SW	
10.06	11.58	1.52	1.52	100	0.75	49	MS	SW	
11.58	12.95	1.37	1.37	100	0.97	71	MS	SW	
12.95	14.48	1.53	1.53	100	1.10	72	MS	SW	
14.48	16.00	1.52	1.52	100	0.83	55	MS	SW	
16.00	17.53	1.53	1.47	96	0.95	62	MS	SW	
17.53	18.90	1.37	1.28	93	0.54	39	MS	SW	
18.90	21.64	2.74	1.63	59	0.55	20	MS	SW	
21.64	22.86	1.22	0.94	77	0.22	18	S	SW	
22.86	24.38	1.52	1.42	93	1.02	67	S	SW	
24.38	25.15	0.77	0.77	100	0.61	79	MS	SW	
25.15	26.67	1.52	1.52	100	1.03	68	MS	SW	
26.67	28.19	1.52	1.52	100	1.03	68	MS	SW	
28.19	29.72	1.53	1.53	100	0.90	59	MS	SW	
29.72	30.48	0.76	0.68	89	0.55	72	S	SW	
30.48	32.00	1.52	1.43	94	1.24	82	S	SW	
32.00	33.53	1.53	1.53	100	0.90	59	S	SW	
33.53	36.12	2.59	2.55	98	1.65	64	S	SW	
36.12	39.17	3.05	3.00	98	2.33	76	S	SW	
39.17	39.78	0.61	0.54	89	0.27	44	MS	SW	
39.78	41.30	1.52	1.43	94	1.05	69	S	SW	
41.30	43.59	2.29	2.10	92	1.17	51	MS	SW	
43.59	46.79	3.20	3.00	94	2.50	78	MS	SW	
46.79	49.68	2.89	2.70	93	1.03	36	MS	SW	
49.68	50.90	1.22	1.05	86	0.00	0	MS	SW	
50.90	52.12	1.22	1.09	89	0.16	13	MS	SW	
52.12	54.86	2.74	2.65	97	0.77	28	MS	SW	
54.86	56.24	1.38	1.21	88	0.00	0	MS	SW	
56.24	57.91	1.67	0.80	48	0.38	23	ES	EW	
57.91	58.22	0.31	0.15	48	0.00	0	ES	EW	
58.22	59.44	1.22	1.02	84	0.00	0	ES	EW	
59.44	59.74	0.30	0.30	100	0.11	37	MS	SW	
59.74	60.66	0.92	0.92	100	0.25	27	MS	SW	
60.66	62.48	1.82	1.63	90	0.75	41	MS	SW	
62.48	64.01	1.53	1.52	99	0.21	14	MS	SW	
64.01	64.92	0.91	0.68	75	0.10	11	MS	HW	
64.92	66.60	1.68	1.22	73	0.44	26	MS	HW	
66.60	67.06	0.46	0.40	87	0.00	0	S	HW	
67.06	68.58	1.52	1.52	100	0.00	0	S	HW	
68.58	69.65	1.07	1.07	100	0.00	0	S	HW	
69.65	71.02	1.37	1.37	100	0.10	7	S	HW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
71.02	72.09	1.07	0.87	81	0.12	11	S	HW	
72.09	73.15	1.06	0.57	54	0.00	0	S	EW	
73.15	73.76	0.61	0.40	66	0.00	0	ES	EW	
73.76	74.52	0.76	0.20	26	0.00	0	ES	EW	
74.52	75.29	0.77	0.71	92	0.00	0	ES	EW	
75.29	76.81	1.52	1.47	97	0.81	53	ES	SW	
76.81	77.11	0.30	0.14	47	0.00	0	ES	EW	
77.11	78.03	0.92	0.25	27	0.00	0	ES	EW	
78.03	78.49	0.46	0.19	41	0.00	0	ES	EW	
78.49	79.25	0.76	0.00	0	0.00	0	N/A	N/A	
79.25	79.86	0.61	0.11	18	0.00	0	ES	EW	
79.86	80.01	0.15	0.06	40	0.00	0	ES	EW	
80.01	80.31	0.30	0.26	87	0.00	0	ES	EW	
80.31	80.62	0.31	0.25	81	0.00	0	ES	EW	
80.62	81.36	0.74	0.58	78	0.00	0	ES	EW	
81.36	81.69	0.33	0.14	42	0.00	0	ES	EW	
81.69	81.99	0.30	0.30	100	0.00	0	ES	EW	
81.99	82.30	0.31	0.09	29	0.00	0	ES	EW	
82.30	83.06	0.76	0.62	82	0.00	0	ES	EW	
83.06	85.50	2.44	2.34	96	0.70	29	VS	HW	
85.50	87.17	1.67	1.67	100	0.69	41	VS	HW	
87.17	88.39	1.22	1.15	94	0.63	52	S	HW	
88.39	88.70	0.31	0.28	90	0.00	0	S	HW	
88.70	89.31	0.61	0.49	80	0.17	28	S	HW	
89.31	89.76	0.45	0.43	96	0.22	49	S	HW	
89.76	90.22	0.46	0.46	100	0.00	0	S	HW	
90.22	90.68	0.46	0.33	72	0.00	0	VS	HW	
90.68	91.89	1.21	1.21	100	0.80	66	VS	HW	
91.89	92.96	1.07	1.03	96	0.14	13	MS	MW	
92.96	93.88	0.92	0.85	92	0.32	35	MS	MW	
93.88	94.18	0.30	0.30	100	0.00	0	S	MW	
94.18	94.49	0.31	0.20	65	0.00	0	S	MW	
94.49	96.01	1.52	1.37	90	0.88	58	MS	SW	
96.01	96.14	0.13	0.13	100	0.00	0	MS	SW	
96.14	97.54	1.40	1.27	91	0.79	56	MS	SW	
97.54	98.76	1.22	0.98	80	0.13	11	MS	SW	
98.76	99.67	0.91	0.91	100	0.24	26	MS	SW	
99.67	100.28	0.61	0.61	100	0.21	34	VS	HW	
100.28	101.35	1.07	0.87	81	0.15	14	VS	HW	
101.35	102.41	1.06	1.06	100	0.60	57	VS	HW	
102.41	103.94	1.53	1.41	92	0.62	41	VS	HW	
103.94	104.85	0.91	0.88	97	0.00	0	ES	EW	
104.85	105.46	0.61	0.44	72	0.29	48	ES	EW	
105.46	106.53	1.07	0.87	81	0.53	50	MS	SW	
106.53	107.44	0.91	0.55	60	0.12	13	ES	EW	
107.44	108.05	0.61	0.40	66	0.13	21	ES	EW	
108.05	108.66	0.61	0.30	49	0.00	0	ES	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
108.66	109.73	1.07	1.00	93	0.00	0	ES	EW	
109.73	110.34	0.61	0.40	66	0.00	0	ES	EW	
110.34	111.25	0.91	0.70	77	0.22	24	ES	EW	
111.25	111.71	0.46	0.22	48	0.00	0	ES	EW	
111.71	112.47	0.76	0.76	100	0.26	34	ES	EW	
112.47	113.54	1.07	1.03	96	0.68	64	MS	SW	
113.54	114.60	1.06	0.72	68	0.00	0	MS	SW	
114.60	115.52	0.92	0.25	27	0.00	0	VS	HW	
115.52	116.13	0.61	0.37	61	0.00	0	VS	HW	
116.13	116.28	0.15	0.15	100	0.00	0	VS	HW	
116.28	116.89	0.61	0.13	21	0.00	0	VS	HW	
116.89	117.35	0.46	0.17	37	0.00	0	VS	HW	
117.35	117.50	0.15	0.12	80	0.00	0	VS	HW	
117.50	118.87	1.37	0.68	50	0.00	0	VS	HW	
118.87	119.18	0.31	0.14	45	0.00	0	VS	HW	
119.18	120.40	1.22	0.91	75	0.00	0	VS	HW	
120.40	121.77	1.37	0.08	6	0.00	0	ES	EW	
121.77	122.38	0.61	0.46	75	0.00	0	ES	EW	
122.38	122.83	0.45	0.45	100	0.00	0	ES	SW	
122.83	125.88	3.05	3.05	100	2.53	83	MS	SW	
125.88	128.93	3.05	3.05	100	2.12	70	MS	SW	
128.93	131.98	3.05	3.05	100	2.98	98	MS	SW	
131.98	135.03	3.05	2.96	97	2.71	89	MS	SW	
135.03	136.55	1.52	1.47	97	1.47	97	MS	SW	
136.55	138.84	2.29	2.29	100	2.10	92	MS	SW	
138.84	141.73	2.89	2.83	98	2.49	86	MS	FR	
141.73	144.02	2.29	2.29	100	1.94	85	MS	FR	
144.02	145.24	1.22	1.18	97	1.03	84	MS	FR	
145.24	147.83	2.59	2.53	98	2.38	92	MS	FR	
147.83	150.27	2.44	2.44	100	2.39	98	MS	FR	
150.27	152.55	2.28	2.28	100	2.19	96	MS	FR	
152.55	155.45	2.90	2.90	100	2.66	92	MS	FR	
155.45	159.26	3.81	3.81	100	3.58	94	MS	FR	
159.26	161.70	2.44	2.38	98	1.72	70	MS	FR	
161.70	164.59	2.89	2.89	100	2.89	100	MS	FR	
164.59	167.64	3.05	3.05	100	3.05	100	MS	FR	
167.64	170.69	3.05	3.05	100	2.94	96	MS	FR	
170.69	173.74	3.05	3.05	100	2.92	96	MS	FR	
173.74	176.78	3.04	3.04	100	2.80	92	MS	FR	
176.78	179.83	3.05	3.05	100	2.91	95	MS	FR	
179.83	182.88	3.05	3.05	100	2.98	98	MS	FR	
182.88	185.93	3.05	3.05	100	2.92	96	MS	FR	
185.93	188.98	3.05	3.05	100	2.87	94	MS	FR	
188.98	190.50	1.52	0.52	34	1.45	95	MS	FR	
190.50	193.55	3.05	2.95	97	2.85	93	MS	FR	
193.55	196.60	3.05	3.05	100	3.02	99	MS	FR	
196.60	199.64	3.04	3.00	99	2.92	96	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
199.64	201.17	1.53	1.45	95	1.35	88	MS	FR	
201.17	204.22	3.05	3.05	100	2.64	87	MS	FR	
204.22	207.27	3.05	3.04	100	3.00	98	MS	FR	
	207.27	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-24

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
52.12	54.86	2.74	2.55	93	H247019	4.5	6	0.01	0.06	96	0.89	
54.86	56.72	1.86	1.52	82	H247020	2.5	7	0.01	0.04	90	0.40	
56.72	59.48	2.76	1.60	58	H247021	1.5	7	0.01	0.11	701	0.54	
59.48	62.48	3.00	2.68	89	H247022	4.0	7	<0.01	0.03	15	0.41	
62.48	65.03	2.55	2.55	100	H247023	4.5	7	0.03	0.09	81	1.82	
65.03	68.00	2.97	1.53	52	H247024	2.0	7	0.03	0.18	275	0.95	
68.00	71.02	3.02	2.46	81	H247026	3.0	7	0.02	0.22	295	5.79	
71.02	72.85	1.82	1.25	69	H247027	0.5	7	0.04	0.16	149	6.86	
72.85	75.00	2.15	1.12	52	H247028	1.5	7	0.10	0.49	346	15.25	
75.00	76.81	1.81	1.65	91	H247029	3.5	7	0.02	0.02	36	2.64	
76.81	79.86	3.05	0.75	25	H247030	1.0	7	1.34	0.67	4780	662.00	
79.86	82.66	2.80	2.00	71	H247031	2.5	7	0.60	0.57	2340	201.00	
82.66	85.00	2.35	2.01	86	H247032	3.0	7	0.03	0.77	149	67.90	
85.00	87.80	2.80	2.80	100	H247033	4.5	7	0.04	8.86	160	181.50	
87.80	90.60	2.80	2.24	80	H247034	3.5	7	0.02	0.87	126	1.19	
90.60	91.89	1.29	1.29	100	H247035	2.0	7	0.01	0.15	76	0.43	
91.89	94.49	2.60	2.44	94	H247037	5.0	7	0.01	0.93	128	2.25	
94.49	97.25	2.76	2.75	100	H247038	5.0	7	<0.01	0.26	43	0.15	
97.25	99.97	2.72	2.30	85	H247040	4.0	7	0.01	5.05	121	0.26	
99.97	102.41	2.44	2.08	85	H247041	4.0	7	0.05	0.84	366	2.39	
102.41	105.46	3.05	2.57	84	H247042	4.0	7	0.40	2.74	2170	20.90	
105.46	108.05	2.59	1.78	69	H247043	3.5	7	0.93	2.18	7210	30.70	
108.05	110.35	2.30	1.24	54	H247044	1.5	7	4.19	5.92	>10000	156.00	
110.35	113.00	2.65	1.88	71	H247046	3.0	7	1.63	1.00	>10000	39.40	
113.00	116.13	2.01	2.01	100	H247047	4.0	7	0.25	0.16	2870	6.50	
116.13	119.18	1.28	1.28	100	H247048	2.0	7	0.58	0.34	6920	34.60	
119.18	121.77	0.87	0.87	100	H247049	1.0	7	0.14	0.10	655	3.13	
121.77	122.83	0.36	0.36	100	H247050	1.0	7	0.62	0.32	3710	118.00	
122.83	125.88	3.05	3.05	100	H247051	6.0	7	<0.01	0.01	19	0.29	
125.88	128.93	3.05	3.05	100	H247052	6.0	7	<0.01	<0.01	15	0.08	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H247025	0.3	7	5.32	0.14	>10000	448.00	Standard R-3
-	-	-			H247036	4.0	7	<0.01	<0.01	5	0.11	Blank
94.49	97.25	2.76	2.50	91	H247039	2.0	7	0.01	0.32	55	0.16	Duplicate
-	-	-			H247045	0.3	7	1.51	1.83	>10000	325.00	Standard R-2

DENSITY LOG

HOLE: RAU-09-24

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
6.76	LST	ALT		11.5	4.2	434.8	278.4	2.73	2.78
13.50	LST	ALT		10.0	4.2	408.2	261.6	2.95	2.78
21.74	LST	ALT		10.5	4.2	386.8	248.3	2.66	2.79
28.02	LST	ALT		13.0	4.2	530.9	339.2	2.95	2.77
33.18	LST	ALT		10.0	4.2	364.2	229.1	2.63	2.70
39.02	LST	ALT		14.0	4.2	453.6	287.5	2.34	2.73
44.42	LST	ALT		13.0	4.2	517.8	331.4	2.87	2.78
48.90	LST	ALT		18.0	4.2	612.5	386.0	2.46	2.70
56.60	LST	ALT		15.0	4.2	549.5	350.9	2.64	2.77
64.90	LST			13.0	4.2	439.4	276.2	2.44	2.69
75.29	LST			12.5	4.2	483.4	302.1	2.79	2.67
76.30	LST			10.0	4.2	433.4	273.8	3.13	2.72
86.15	DOL	ALT		11.0	4.2	387.5	241.0	2.54	2.65
95.20	MBL			16.0	4.2	626.8	400.7	2.83	2.77
106.05	MBL			10.0	4.2	402.1	254.4	2.90	2.72
113.75	MBL			11.5	4.2	433.8	274.0	2.72	2.71
125.75	MBL			11.0	4.2	421.7	266.8	2.77	2.72
135.03	MBL			15.0	4.2	565.9	359.8	2.72	2.75
145.25	MBL			13.0	4.2	522.2	331.0	2.90	2.73
150.27	MBL			13.5	4.2	500.8	321.9	2.68	2.80
155.18	MBL			14.0	4.2	514.6	325.0	2.65	2.71
160.20	MBL			13.0	4.2	473.4	299.0	2.63	2.71
164.83	MBL			14.0	4.2	531.0	335.5	2.74	2.72
170.69	MBL			15.0	4.2	559.4	354.7	2.69	2.73
177.84	MBL			11.0	4.2	377.3	237.9	2.48	2.71
181.70	MBL			16.0	4.2	574.3	363.4	2.59	2.72
188.98	MBL			9.0	4.2	339.0	214.3	2.72	2.72
193.40	MBL			16.0	4.2	587.1	379.0	2.65	2.82

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-24

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
0.00	N/A		0.12	
1.00	N/A		0.02	
2.00	N/A		0.06	
3.00	N/A		0.04	
4.00	N/A		0.00	
5.00	N/A		0.00	
6.00	LST	ALT	0.02	
7.00	LST	ALT	0.02	
8.00	LST	ALT	0.08	
9.00	LST	ALT	0.02	
0.00	LST	ALT	0.04	
11.00	LST	ALT	0.38	
12.00	LST	ALT	0.02	
13.00	LST	ALT	0.08	
14.00	LST	ALT	0.04	
15.00	LST	ALT	0.10	
16.00	LST	ALT	0.00	
17.00	LST	ALT	0.04	
18.00	LST	ALT	0.04	
19.00	LST	ALT	0.30	
20.00	LST	ALT	0.22	
21.00	LST	ALT	0.08	
22.00	LST	ALT	0.06	
23.00	LST	ALT	0.08	
24.00	LST	ALT	0.38	
25.00	LST	ALT	0.08	
26.00	LST	ALT	0.08	
27.00	LST	ALT	1.02	
28.00	LST	ALT	0.08	
29.00	LST	ALT	0.02	
30.00	LST	ALT	0.04	
31.00	LST	ALT	0.06	
32.00	LST	ALT	0.04	
33.00	LST	ALT	0.04	
34.00	LST	ALT	0.60	
35.00	LST	ALT	0.26	
36.00	LST	ALT	0.38	
37.00	LST	ALT	0.04	
38.00	LST	ALT	0.08	
39.00	LST	ALT	0.06	
40.00	LST	ALT	0.04	
41.00	LST	ALT	0.12	
42.00	LST	ALT	0.04	
43.00	LST	ALT	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
44.00	LST	ALT	0.02	
45.00	LST	ALT	0.04	
46.00	LST	ALT	0.32	
47.00	LST	ALT	0.02	
48.00	LST	ALT	0.02	
49.00	LST	ALT	0.04	
50.00	LST	ALT	0.04	
51.00	LST	ALT	0.08	
52.00	LST	ALT	0.02	
53.00	LST	ALT	0.04	
54.00	LST	ALT	0.00	
55.00	LST	ALT	0.14	
56.00	LST	ALT	0.04	
57.00	OX	CLY	0.02	
58.00	OX	CLY	0.12	
59.00	OX	CLY	0.59	
60.00	LST		0.02	
61.00	LST		0.02	
62.00	LST		0.04	
63.00	LST		0.02	
64.00	LST		0.04	
65.00	LST		0.06	
66.00	LST		0.04	
67.00	LST		0.10	
68.00	LST		0.08	
69.00	LST		0.16	
70.00	LST		0.08	
71.00	LST		0.10	
72.00	OX	CLY	0.04	
73.00	OX	CLY	0.12	
74.00	VOL	ALT	0.18	
75.00	OX	CLY	0.06	
76.00	LST		0.04	
77.00	OX	CLY	0.26	
78.00	OX	CLY	0.06	
79.00	OX	CLY	0.06	
80.00	OX	CLY	0.04	
81.00	OX	CLY	0.08	
82.00	OX	CLY	0.10	
83.00	DOL	ALT	0.14	
84.00	DOL	ALT	0.16	
85.00	DOL	ALT	0.10	
86.00	DOL	ALT	0.22	
87.00	DOL	ALT	0.34	
88.00	VOL		0.14	
89.00	MBL		0.14	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
90.00	MBL		0.04	
91.00	MBL		0.34	
92.00	MBL		0.12	
93.00	MBL		0.18	
94.00	MBL		0.10	
95.00	MBL		0.08	
96.00	MBL		0.02	
97.00	MBL		0.02	
98.00	MBL		0.14	
99.00	MBL		0.18	
100.00	OX	RBL	0.04	
101.00	LST		0.49	
102.00	LST		0.32	
103.00	MBL		0.02	
104.00	MBL		0.06	
105.00	MBL		0.04	
106.00	MBL		0.00	
107.00	MBL		0.16	
108.00	MBL		0.28	
109.00	MBL		0.10	
110.00	MBL		0.14	
111.00	MBL		0.08	
112.00	MBL		0.08	
113.00	MBL		0.00	
114.00	MBL		0.02	
115.00	OX		0.16	
116.00	OX		0.10	
117.00	OX		0.02	
118.00	OX		0.18	
119.00	OX		0.02	
120.00	OX		0.04	
121.00	OX		0.10	
122.00	OX		0.14	
123.00	MBL		0.08	
124.00	MBL		0.12	
125.00	MBL		0.02	
126.00	MBL		0.00	
127.00	MBL		0.02	
128.00	MBL		0.02	
129.00	MBL		0.06	
130.00	MBL		0.08	
131.00	MBL		0.02	
132.00	MBL		0.10	
133.00	MBL		0.04	
134.00	MBL		0.02	
135.00	MBL		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
136.00	MBL		0.00	
137.00	MBL		0.00	
138.00	MBL		0.06	
139.00	MBL		0.04	
140.00	MBL		0.45	
141.00	MBL		0.00	
142.00	MBL		0.06	
143.00	MBL		0.02	
144.00	MBL		0.00	
145.00	MBL		0.06	
146.00	MBL		0.02	
147.00	MBL		0.02	
148.00	MBL		0.04	
149.00	MBL		0.06	
150.00	MBL		0.12	
151.00	MBL		0.08	
152.00	MBL		0.02	
153.00	MBL		0.20	
154.00	MBL		0.88	
155.00	MBL		0.04	
156.00	MBL		0.06	
157.00	MBL		0.02	
158.00	MBL		0.06	
159.00	MBL		0.02	
160.00	MBL		0.00	
161.00	MBL		0.04	
162.00	MBL		0.06	
163.00	MBL		0.18	
164.00	MBL		0.02	
165.00	MBL		0.02	
166.00	MBL		0.00	
167.00	MBL		0.10	
168.00	MBL		0.00	
169.00	MBL		0.02	
170.00	MBL		0.06	
171.00	MBL		0.02	
172.00	MBL		0.00	
173.00	MBL		0.00	
174.00	MBL		0.12	
175.00	MBL		0.04	
176.00	MBL		0.10	
177.00	MBL		0.00	
178.00	MBL		0.04	
179.00	MBL		0.16	
180.00	MBL		0.02	
181.00	MBL		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
182.00	MBL		0.00	
183.00	MBL		0.06	
184.00	MBL		0.14	
185.00	MBL		0.20	
186.00	MBL		0.06	
187.00	MBL		0.00	
188.00	MBL		0.06	
189.00	MBL		0.12	
190.00	MBL		0.12	
191.00	MBL		0.06	
192.00	MBL		0.00	
193.00	MBL		0.06	
194.00	MBL		0.02	
195.00	MBL		0.06	
196.00	MBL		0.06	
197.00	MBL		0.06	
198.00	MBL		0.00	
199.00	MBL		0.00	
200.00	MBL		0.12	
201.00	MBL		0.04	
202.00	MBL		0.06	
203.00	MBL		0.04	
204.00	MBL		0.00	
205.00	MBL		0.22	
206.00	MBL		0.02	

BOX LOG

HOLE: RAU-09-24

BOX	FROM (m)	TO (m)		BOX	FROM (m)	TO (m)
1	0.00	9.08		36	202.00	207.97
2	9.08	14.48			207.97	E.O.H.
3	14.48	19.40				
4	19.40	25.57				
5	25.57	30.48				
6	30.48	35.84				
7	35.84	41.42				
8	41.42	47.00				
9	47.00	52.48				
10	52.48	58.95				
11	58.95	64.48				
12	64.48	70.24				
13	70.24	75.97				
14	75.97	83.00				
15	83.00	88.39				
16	88.39	93.15				
17	93.15	97.25				
18	97.25	102.41				
19	102.41	108.77				
20	108.77	115.35				
21	115.35	123.53				
22	123.53	128.93				
23	128.93	134.67				
24	134.67	140.42				
25	140.42	145.68				
26	145.68	151.39				
27	151.39	157.00				
28	157.00	162.53				
29	162.53	1167.64				
30	167.64	173.51				
31	173.51	179.16				
32	179.16	184.76				
33	184.76	190.42				
34	190.42	196.22				
35	196.22	202.00				

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-25
CLAIM: Rau-69

Easting	Northing	Elev.	Depth (m)
528267.8	7119246.24	1341.94	153.15

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-55	compass				

Core size: HQ
Casing depth: 20.42 (m) out

Drilling dates: June 30-July 2, 2009

Logged by: J. Lane

Target: Scissor on Rau-09-19

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.55	3.55	OVB	
3.55	17.00	13.45	OX	Rubbly
17.00	56.00	39.00	LST	Brecciated
56.00	64.65	8.65	OX	
64.65	69.83	5.18	LST	
69.83	83.21	13.38	DOL	Banded
83.21	85.3	2.09	OX	Rubbly
85.3	92.59	7.29	DOL	Crackled
92.59	95.2	2.61	OX	Rubbly
95.2	118.26	23.06	MBL	
118.26	122.85	4.59	OX	Rubbly
122.85	127.41	4.56	MBL	Altered
127.41	132.6	5.19	OX	Rubbly
132.6	143.45	10.85	VOL	Altered
143.45	153.15	9.70	LEP	Altered

SAMPLES	
Numbers:	H247053-H247110
	H247165-H247174
Total:	68 (Batches 7, 8, 9, 11)
Date sent:	
Certificate:	VA09072703, VA09072703, VA09072171
	VA09072170

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-25

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.55	3.55	OVB																			
3.55	17.00	13.45	OX	RBL								I										Light orange-brown rubbly oxide clay containing limestone and limonite fragments.
																						11.58-17.00 m: Dark red-brown clay and limonite fragments.
17.00	56.00	39.00	LST	FOS		VN	50								f							Moderately altered fossiliferous limestone (10%) with crinoid and coral mound fragments. Ca veins cut the limestone in at least 3 phases. 1) An carbonate altered phase cuts at 40 deg to CA. 2) cu by a more plain Ca vein phase at 20 deg. The angle between the 1st phase and 2nd phase is 90 deg. 3) Coarse grained Ca vein phase - slightly more vuggy Oxidized pyrite blebs are scattered throughout. The limestone is variably brecciated and crackled.
						VN	20															
						VN	40															
													Cl	t								23.77-25.30 m: Intensely carbonate altered mediun brown crackle brecciated and vuggy limestone. A soft green mineral (chlorite?) occurs at 24.57 m.
						VN	30		s			m			w	t						25.30-56.00 m: Fossiliferous strongly dolomitized crackle brecciated limestone. Oxidized medium grained pyrite blebs occur from 25.75-25.97 m. Altered Ca veins and at 30 deg and later irregular, generally low angle coarse grained dolomite veins cut the breccia.
						VN	55					f										29.87-31.57 m: Less intensely dolomitized crackle brecciated limestone with fair oxidation and carbonate alteration. Thin oxidized Ca veinlets cut breccia at 55 deg to CA.
						VN	30								w	t						31.57-52.81 m: Intensely oxidized strongly dolomitized fluid collapse brecciated rubbly fossiliferous limestone. Very altered Ca veins cut at 30 deg to CA. Very fine grained Py and Asp appear on broken surfaces.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
									I			m										52.81-56.00 m: Intensely dolomitized, moderately oxidized crackly fluid collapse brecciated limestone with cross cutting altered 1-3 mm thick Ca veins running at 25 and 1-2 cm thick veins at 50 deg to CA.
56.00	64.65	8.65	OX						s			l										Medium to dark orange brown oxide with rubbly/clay rich zones containing subangular quartz fragments.
64.65	69.83	5.18	LST		BX				s			f										Strongly dolomitized fluid crackle brecciated limestone with Ca veins 1-5 mm cutting breccia at 25 deg to CA.
																						65.98-69.83 m: Intensely carbonate altered rubbly dolomitized crackly brecciated limestone.
69.83	83.21	13.38	DOL		BN	BD	70		I			m				w						Coarse grained dolomite with very coarse grained oxidized Asp crystals particularly concentrated from 74.60 - 75.00 m. Possible relict banding at 70 deg to CA.
83.21	85.30	2.09	OX	RBL								l										Extremely oxidized rubble zone. Limonite chunks are mixed with orange-brown gritty clay.
85.30	92.59	7.29	DOL		CR	FR	40					S				w						Coarse grained dolomite with pinkish orange rhodochrosite alteration of the Mg in the dolomite. A thin fracture network runs at 40 deg to CA. Coarse grained oxidized euhedral Asp crystals are scattered throughout. In areas the core contains vugs between the coarse grained dolomite crystals.
92.59	95.20	2.61	OX	RBL								l										Rubbly oxidized limonitic interval. Some of the limonite pieces appear extremely vuggy.
95.20	118.26	23.06	MBL			BN	40															White to light grey marble with minor thin ~1 mm light to medium grey bands running at 40 deg to CA.
						CN	40															106.05 - 106.35 m: Zone of grey-tope coloured clay - FAULT??

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	5					w										106.35-108.61 m: Medium grey limestone with slightly irregular bedding close to parallel to the core axis. The limestone is quite rubbly and the fractured surfaces show slight carbonate alteration.
			MBL		BN	BD	25					f										108.61-118.26 m: White marble somewhat rubbly with slight oxidation on fractures surfaces. The marble is very pure with few grey layers.
118.26	122.85	4.59	OX	RBL								I										Rubbly vuggy limonite, almost looks like drift wood.
122.85	127.41	4.56	MBL	ALT								m										Dirty looking marble, fluid brecciated with a crackle texture.
127.41	132.60	5.19	OX	RBL																		Rubbly oxidized core with limonite on some fracture surfaces. Medium orange brown in colour.
132.60	143.45	10.85	VOL	ALT		FO	50					f										Dark grey foliated volcaniclastic with a vuggy texture as thought it has been fluid altered. Fractures surfaces are fairly altered. Foliation runs at 50 deg to CA.
						FO	45															134.75-135.67 m: The texture appears the same as the volcanic above but this interval has been intensely oxidized.
						FO	55			I												135.67-138.42 m: Intensely sericite altered and moderately oxidized volcaniclastic. Foliation appear almost crenulated.
						FO	50			m												138.42-140.00 m: Gradually decreasing in the amount of sericite alteration. One vein cuts the core at 0.5 deg to CA. 0.5 - 1.5 cm calcite amygdules 3%.
						VN	5															
																						Dark grey-black volcaniclastic with 0.5-2cm subrounded Ca rich vesicles (3% total). Ca veins cut at 45 deg to CA. The veins are quite wiggly as though they have been offset by a crenulation.
						VN	45															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
143.45	153.15	9.70	LEP	ALT		FR	15															Medium grey leopard print volcaniclastic. Fractures run at 15 deg to CA and have a beige bleached/alteration halo around them. Weak sericit alteration occurs along fractures and in veins 0.2-0.5 cm thick at 40 deg to CA.
						VN	40															
																						153.15 m: E.O.H.

GEOTECHNICAL LOG

HOLE: RAU-09-25

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.96	3.96	0.43	11	0.27	7	MS	EW	
3.96	5.49	1.53	0.11	7	0.00	0	W	EW	
5.49	7.01	1.52	0.00	0	0.00	0	W	EW	
7.01	8.53	1.52	0.09	6	0.00	0	W	EW	
8.53	10.06	1.53	0.00	0	0.00	0	W	EW	
10.06	11.58	1.52	0.41	27	0.00	0	W	EW	
11.58	13.11	1.53	0.00	0	0.00	0	W	EW	
13.11	14.63	1.52	0.00	0	0.00	0	W	EW	
14.63	16.15	1.52	1.36	89	0.61	40	W	EW	
16.15	17.68	1.53	1.21	79	0.77	50	MS	EW	
17.68	19.20	1.52	1.52	100	1.43	94	MS	MW	
19.20	20.73	1.53	1.27	83	1.27	83	MS	MW	
20.73	22.25	1.52	1.51	99	1.42	93	MS	MW	
22.25	23.77	1.52	1.28	84	1.17	77	MS	MW	
23.77	25.30	1.53	1.48	97	1.04	68	MS	EW	
25.30	26.82	1.52	1.40	92	1.34	88	MS	MW	
26.82	28.35	1.53	1.53	100	1.53	100	MS	MW	
28.35	29.87	1.52	1.42	93	1.34	88	MS	MW	
29.87	31.39	1.52	1.47	97	1.18	78	MS	MW	
31.39	32.92	1.53	1.05	69	0.68	44	MS	EW	
32.92	34.44	1.52	0.45	30	0.29	19	W	EW	
34.44	35.97	1.53	0.00	0	0.00	0	W	EW	
35.97	37.49	1.52	1.18	78	0.00	0	W	EW	
37.49	39.00	1.51	1.34	89	1.01	67	MS	EW	
39.00	40.54	1.54	1.21	79	1.00	65	MS	EW	
40.54	42.06	1.52	1.10	72	0.65	43	MS	EW	
42.06	43.59	1.53	1.30	85	0.90	59	MS	EW	
43.59	45.11	1.52	1.16	76	0.78	51	MS	MW	
45.11	46.63	1.52	0.97	64	0.70	46	MS	MW	
46.63	48.16	1.53	1.53	100	1.43	93	MS	MW	
48.16	49.68	1.52	1.50	99	1.37	90	MS	EW	
49.68	51.21	1.53	1.13	74	0.73	48	MS	EW	
51.21	52.73	1.52	1.24	82	0.32	21	MS	EW	
52.73	54.25	1.52	1.49	98	1.28	84	MS	MW	
54.25	55.78	1.53	1.31	86	1.31	86	MS	EW	
55.78	57.30	1.52	1.11	73	0.48	32	MS	EW	
57.30	58.83	1.53	1.53	100	0.87	57	MS	EW	
58.83	60.35	1.52	1.48	97	1.07	70	MS	EW	
60.35	61.87	1.52	1.52	100	0.74	49	W	EW	
61.87	63.40	1.53	0.46	30	0.39	25	W	EW	
63.40	64.92	1.52	0.78	51	0.61	40	W	EW	
64.92	66.45	1.53	1.30	85	1.17	76	MS	MW	
66.45	67.97	1.52	1.52	100	1.27	84	W	EW	
67.97	69.49	1.52	1.42	93	0.56	37	W	EW	
69.49	71.02	1.53	1.53	100	0.93	61	W	EW	
71.02	72.54	1.52	1.30	86	1.04	68	MS	HW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.53	100	1.28	84	MS	MW	
74.07	75.59	1.52	1.52	100	1.32	87	MS	MW	
75.59	77.11	1.52	1.52	100	1.27	84	S	MW	
77.11	78.64	1.53	1.53	100	1.15	75	S	MW	
78.64	80.16	1.52	1.51	99	0.93	61	S	MW	
80.16	81.69	1.53	1.44	94	1.03	67	S	MW	
81.69	83.21	1.52	1.12	74	0.53	35	MS	EH	
83.21	84.73	1.52	0.20	13	0.14	9	MS	HW	
84.73	86.26	1.53	0.53	35	1.00	65	MS	HW	
86.26	87.78	1.52	1.52	100	1.33	88	MS	MW	
87.78	89.31	1.53	1.10	72	0.81	53	MS	MW	
89.31	90.83	1.52	0.73	48	0.49	32	MS	MW	
90.83	92.35	1.52	1.01	66	0.98	64	MS	MW	
92.35	93.88	1.53	0.27	18	0.12	8	MS	HW	
93.88	95.40	1.52	0.36	24	0.00	0	MS	HW	
95.40	96.93	1.53	1.00	65	0.61	40	S	SW	
96.93	98.45	1.52	1.52	100	1.00	66	S	SW	
98.45	99.97	1.52	1.33	88	0.95	63	S	SW	
99.97	101.50	1.53	1.12	73	0.57	37	S	SW	
101.50	103.02	1.52	1.52	100	1.11	73	S	SW	
103.02	104.55	1.53	1.27	83	1.07	70	S	SW	
104.55	106.07	1.52	1.47	97	0.74	49	S	SW	
106.07	107.59	1.52	1.52	100	0.48	32	MS	EW	
107.59	109.12	1.53	1.53	100	0.85	56	MS	EW	
109.12	110.64	1.52	1.52	100	0.79	52	MS	EW	
110.64	112.17	1.53	1.39	91	1.11	73	S	SW	
112.17	113.69	1.52	1.52	100	0.73	48	S	SW	
113.69	115.21	1.52	1.21	80	0.88	58	S	SW	
115.21	116.74	1.53	1.53	100	0.93	61	S	SW	
116.74	118.26	1.52	0.58	38	0.25	16	S	SW	
118.26	119.79	1.53	0.42	27	0.00	0	W	EW	
119.79	121.31	1.52	1.10	72	0.27	18	W	EW	
121.31	122.83	1.52	0.24	16	0.00	0	W	EW	
122.83	124.36	1.53	0.47	31	0.20	13	MS	MW	
124.36	125.88	1.52	1.32	87	0.61	40	S	SW	
125.88	127.41	1.53	0.80	52	0.36	24	S	SW	
127.41	128.93	1.52	0.40	26	0.00	0	W	EW	
128.93	130.45	1.52	0.42	28	0.00	0	W	EW	
130.45	131.98	1.53	0.76	50	0.00	0	W	EW	
131.98	133.50	1.52	1.05	69	0.10	7	W	EW	
133.50	135.03	1.53	1.53	100	0.60	39	MS	MW	
135.03	136.55	1.52	1.51	99	0.38	25	MS	HW	
136.55	138.07	1.52	1.42	93	1.37	90	MS	SW	
138.07	139.60	1.53	1.53	100	1.21	79	S	SW	
139.60	141.12	1.52	1.52	100	1.52	100	S	FR	
141.12	142.65	1.53	1.45	95	1.45	95	S	FR	
142.65	144.17	1.52	1.52	100	1.52	100	S	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
144.17	145.69	1.52	1.52	100	1.39	91	S	FR	
145.69	147.22	1.53	1.50	98	1.43	93	S	FR	
147.22	148.74	1.52	1.52	100	0.37	24	S	FR	
148.74	150.27	1.53	1.49	97	1.40	92	S	FR	
150.27	151.79	1.52	1.51	99	1.52	100	S	FR	
151.79	153.31	1.52	1.52	100	1.52	100	S	FR	
	153.31	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-25

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.55	5.49	1.94	0.51	26	H247053	1.5	7	0.12	0.65	1940	11.50	no recovery 5.49-7.01
7.01	10.06	3.05	0.09	3	H247055	0.3	7	0.44	31.70	>10000	264.00	
10.06	11.58	1.52	0.36	24	H247056	1.0	8	0.22	0.50	4210	46.20	
14.63	17.68	3.05	1.35	44	H247057	8.0	8	1.03	0.71	6890	75.70	
17.68	20.73	3.05	2.90	95	H247058	11.0	8	0.10	0.16	231	6.00	
20.73	23.77	3.04	2.78	91	H247059	11.0	8	0.17	0.29	172	13.40	
23.77	25.30	1.53	1.41	92	H247060	5.0	8	0.30	0.55	893	285.00	
25.30	28.35	3.05	3.01	99	H247061	11.0	8	0.03	0.18	52	2.58	
28.35	29.87	1.52	1.52	100	H247062	6.0	8	0.01	0.06	14	0.69	
29.87	31.57	1.70	1.68	99	H247064	6.5	8	0.02	0.06	11	1.40	
31.57	34.44	2.87	1.38	48	H247065	4.0	8	0.07	0.44	145	4.04	
35.97	38.17	2.20	0.76	35	H247066	2.0	8	0.19	1.19	688	57.30	
38.17	40.54	2.37	2.07	87	H247068	7.0	8	0.16	0.28	373	19.25	
40.54	43.59	3.05	2.25	74	H247069	7.5	8	0.09	0.58	298	53.70	
43.59	46.63	3.04	2.21	73	H247070	7.0	8	0.12	0.45	237	29.70	
46.63	49.68	3.05	3.05	100	H247071	11.0	8	0.25	5.80	955	75.50	
49.68	51.21	1.53	1.14	75	H247073	3.5	8	0.16	0.40	1080	348.00	
51.21	52.80	1.59	1.26	79	H247074	3.5	8	2.86	6.00	2340	196.00	
52.80	54.25	1.45	1.37	94	H247075	5.0	8	0.01	1.15	99	12.75	
54.25	56.00	1.75	1.55	89	H247076	6.0	8	0.01	0.28	99	1.69	
56.00	58.83	2.83	2.44	86	H247077	8.0	8	0.39	2.81	5500	26.80	
58.83	61.87	3.04	3.05	100	H247078	9.5	8	1.70	1.16	4910	187.50	
61.87	64.65	2.78	1.13	41	H247079	3.5	8	1.15	17.55	2330	269.00	
64.65	65.98	1.33	1.32	99	H247080	5.0	8	0.12	1.27	598	82.00	
65.98	67.97	1.99	1.87	94	H247081	6.0	8	6.52	14.20	>10000	232.00	
67.97	69.83	1.86	1.74	94	H247083	4.5	8	1.56	15.20	>10000	146.00	
69.83	72.54	2.71	2.56	94	H247084	9.0	8	0.71	4.74	3410	140.00	
72.54	75.59	3.05	3.05	100	H247085	12.5	8	0.39	0.35	8270	280.00	
75.59	78.64	3.05	3.05	100	H247087	12.5	8	0.08	0.11	1060	136.50	
78.64	81.69	3.05	2.96	97	H247088	11.0	8	0.06	0.11	3330	59.40	
81.69	83.21	1.52	1.16	76	H247089	4.0	8	0.03	0.25	608	39.10	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
83.21	85.30	2.09	0.70	33	H247090	1.5	8	1.25	16.65	6790	345.00	
85.30	87.78	2.48	2.48	100	H247091	10.0	8	0.04	0.31	657	4.50	
87.78	90.83	3.05	1.88	62	H247092	6.5	9	0.06	1.25	942	317.00	
90.83	92.50	1.67	1.22	73	H247093	4.5	9	0.02	1.53	336	150.00	
92.50	93.88	1.38	0.10	7	H247094	0.3	9	0.16	0.79	8590	14.10	
93.88	95.20	1.32	0.44	33	H247095	1.5	9	0.15	0.70	8480	9.93	
95.20	98.00	2.80	2.45	88	H247096	9.0	9	0.01	0.04	115	0.14	
98.00	99.97	1.97	1.80	91	H247097	7.0	9	0.01	0.06	22	0.06	
99.97	103.02	3.05	2.70	89	H247098	10.5	9	0.01	0.01	141	0.04	
103.02	106.07	3.05	2.73	90	H247099	10.5	9	0.01	0.01	62	0.01	
106.07	108.61	2.54	2.54	100	H247100	10.0	9	0.10	0.25	347	0.07	
108.61	110.64	2.03	1.85	91	H247102	6.5	9	0.03	0.11	244	0.01	
110.64	113.69	3.05	2.80	92	H247103	10.0	9	0.02	0.06	68	<0.01	
113.69	116.74	3.05	2.60	85	H247104	10.5	9	0.02	0.05	237	0.11	
116.74	118.26	1.52	0.62	41	H247105	2.0	9	0.05	0.16	293	0.12	
118.26	121.31	3.05	1.52	50	H247107	4.5	9	0.04	3.22	>10000	15.20	
121.31	122.85	1.54	0.32	21	H247108	1.0	9	0.03	2.50	>10000	7.88	
122.85	124.36	1.51	0.41	27	H247109	1.0	9	0.06	1.07	531	0.91	
124.36	127.41	3.05	2.04	67	H247110	7.0	9	0.03	0.70	955	2.29	
127.41	130.45	3.04	0.71	23	H247165	2.0	11	0.14	3.00	>10000	105.50	
130.45	132.60	2.15	1.26	59	H247166	4.0	11	0.11	0.39	7520	34.40	
132.60	134.75	2.15	1.47	68	H247167	5.0	11	0.83	0.54	705	45.30	
134.75	135.67	0.92	0.92	100	H247168	3.0	11	0.18	0.39	818	13.75	
135.67	138.42	2.75	2.28	83	H247169	9.0	11	0.02	0.09	66	5.06	
138.42	140.00	1.58	1.58	100	H247170	7.5	11	0.17	<0.01	17	0.63	
140.00	142.65	2.65	2.61	98	H247171	12.0	11	<0.01	<0.01	6	0.12	
142.65	143.45	0.80	0.80	100	H247172	3.0	11	0.05	<0.01	6	0.16	
143.45	145.69	2.24	2.24	100	H247173	10.0	11	0.01	<0.01	33	0.08	
-	-	-			H247054	4.0	7	<0.01	0.02	26	0.19	Blank
-	-	-			H247063	4.0	8	<0.01	0.01	<5	0.10	Blank
35.97	38.17	2.20	0.76	35	H247067	1.0	8	0.20	1.00	543	99.40	Duplicate
-	-	-			H247072	0.3	8	5.64	0.40	>10000	444.00	Standard R-3

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H247082	0.3	8	1.62	1.78	>10000	335.00	Standard R-2
-	-	-			H247086	4.0	8	<0.01	0.01	32	0.80	Blank
-	-	-			H247101	4.0	9	<0.01	<0.01	<5	0.03	Blank
-	-	-			H247106	0.3	9	1.60	1.92	>10000	343.00	Standard R-2
-	-	-			H247174	3.5	11	0.01	0.03	<5	0.06	Blank

DENSITY LOG

HOLE: RAU-09-25

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
19.05	LST			15.0	6.1	1028.4	650.0	2.33	2.72
22.50	LST			14.0	6.1	1024.6	701.1	2.49	3.17
46.80	LST			14.0	6.1	807.8	544.8	1.96	3.07
48.16	LST			15.0	6.1	947.8	635.0	2.15	3.03
55.50	LST			11.0	6.1	812.9	574.8	2.51	3.41
79.50	DOL			11.5	6.1	962.1	618.8	2.84	2.80
85.85	DOL			14.0	6.1	1069.7	693.6	2.60	2.84
96.93	MBL			9.0	6.1	793.8	501.0	3.00	2.71
103.02	MBL			15.0	6.1	1237.3	819.6	2.80	2.96

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-25

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
0.00	OVB		0.16	
1.00	OVB		0.03	
2.00	OVB		0.05	
3.00	OVB		0.06	
4.00	OX	RBL	0.00	
5.00	OX	RBL	0.10	
6.00	OX	RBL	0.00	
7.00	OX	RBL	0.00	
8.00	OX	RBL	0.25	
9.00	OX	RBL	0.26	
10.00	OX	RBL	0.00	
11.00	OX	RBL	0.06	
12.00	OX	RBL	0.06	
13.00	OX	RBL	0.00	
14.00	OX	RBL	0.00	
15.00	OX	RBL	0.23	
16.00	OX	RBL	0.15	
17.00	OX	RBL	0.15	
18.00	LST	FOS	0.10	
19.00	LST	FOS	0.11	
20.00	LST	FOS	0.08	
21.00	LST	FOS	0.10	
22.00	LST	FOS	0.16	
23.00	LST	FOS	0.16	
24.00	LST	FOS	0.11	
25.00	LST	FOS	0.15	
26.00	LST	FOS	0.16	
27.00	LST	FOS	0.20	
28.00	LST	FOS	0.23	
29.00	LST	FOS	0.08	
30.00	LST	FOS	0.18	
31.00	LST	FOS	0.03	
32.00	LST	FOS	0.03	
33.00	LST	FOS	0.16	
34.00	LST	FOS	0.00	
35.00	LST	FOS	0.00	
36.00	LST	FOS	0.11	
37.00	LST	FOS	0.06	
38.00	LST	FOS	0.15	
39.00	LST	FOS	0.42	
40.00	LST	FOS	0.28	
41.00	LST	FOS	0.15	
42.00	LST	FOS	0.25	
43.00	LST	FOS	0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
44.00	LST	FOS	0.23	
45.00	LST	FOS	0.21	
46.00	LST	FOS	0.18	
47.00	LST	FOS	0.20	
48.00	LST	FOS	0.33	
49.00	LST	FOS	0.35	
50.00	LST	FOS	0.28	
51.00	LST	FOS	0.28	
52.00	LST	FOS	0.15	
53.00	LST	FOS	0.18	
54.00	LST	FOS	0.20	
55.00	LST	FOS	0.05	
56.00	LST	FOS	0.10	
57.00	OX		0.15	
58.00	OX		0.25	
59.00	OX		0.28	
60.00	OX		0.23	
61.00	OX		0.23	
62.00	OX		0.11	
63.00	OX		0.16	
64.00	OX		0.11	
65.00	LST		0.06	
66.00	LST		0.05	
67.00	LST		0.18	
68.00	LST		0.25	
69.00	LST		0.16	
70.00	DOL		0.35	
71.00	DOL		0.33	
72.00	DOL		0.33	
73.00	DOL		0.38	
74.00	DOL		0.38	
75.00	DOL		0.25	
76.00	DOL		0.42	
77.00	DOL		0.31	
78.00	DOL		0.42	
79.00	DOL		0.25	
80.00	DOL		0.36	
81.00	DOL		0.33	
82.00	DOL		0.25	
83.00	DOL		0.18	
84.00	OX	RBL	0.28	
85.00	OX	RBL	0.62	
86.00	DOL		0.30	
87.00	DOL		0.23	
88.00	DOL		0.38	
89.00	DOL		0.33	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
90.00	DOL		0.23	
91.00	DOL		0.25	
92.00	DOL		0.28	
93.00	OX		0.57	
94.00	OX		0.60	
95.00	OX		0.35	
96.00	MBL		0.01	
97.00	MBL		0.10	
98.00	MBL		0.01	
99.00	MBL		0.00	
100.00	MBL		0.01	
101.00	MBL		0.01	
102.00	MBL		0.00	
103.00	MBL		0.03	
104.00	MBL		0.00	
105.00	MBL		0.01	
106.00	MBL		0.03	
107.00	MBL		0.03	
108.00	MBL		0.08	
109.00	MBL		0.01	
110.00	MBL		0.06	
111.00	MBL		0.00	
112.00	MBL		0.01	
113.00	MBL		0.00	
114.00	MBL		0.00	
115.00	MBL		0.01	
116.00	MBL		0.06	
117.00	MBL		0.05	
118.00	MBL		0.01	
119.00	OX	RBL	0.26	
120.00	OX	RBL	0.38	
121.00	OX	RBL	1.26	
122.00	OX	RBL	0.80	
123.00	MBL	ALT	0.06	
124.00	MBL	ALT	0.06	
125.00	MBL	ALT	0.06	
126.00	MBL	ALT	0.05	
127.00	MBL	ALT	0.06	
128.00	OX	RBL	0.50	
129.00	OX	RBL	0.06	
130.00	OX	RBL	0.10	
131.00	OX	RBL	0.10	
132.00	OX	RBL	0.47	
133.00	VOL	ALT	0.15	
134.00	VOL	ALT	0.20	
135.00	VOL	ALT	0.50	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
136.00	VOL	ALT	0.11	
137.00	VOL	ALT	0.45	
138.00	VOL	ALT	0.40	
139.00	VOL	ALT	1.29	
140.00	VOL	ALT	1.47	
141.00	VOL	ALT	1.56	
142.00	VOL	ALT	1.79	
143.00	VOL	ALT	1.37	
144.00	LEP	ALT	0.30	
145.00	LEP	ALT	0.31	
146.00	LEP	ALT	0.28	
147.00	LEP	ALT	0.33	
148.00	LEP	ALT	0.47	
149.00	LEP	ALT	0.36	
150.00	LEP	ALT	0.26	
151.00	LEP	ALT	0.20	
152.00	LEP	ALT	0.28	
153.00	LEP	ALT	0.23	

BOX LOG

HOLE: RAU-09-25

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.00	17.68			
2	17.68	21.95			
3	21.95	26.12			
4	26.12	30.26			
5	30.26	38.17			
6	38.17	43.03			
7	43.03	47.91			
8	47.91	52.48			
9	52.48	57.00			
10	57.00	60.68			
11	60.68	65.83			
12	65.83	69.77			
13	69.77	73.77			
14	73.77	77.49			
15	77.49	84.63			
16	84.63	86.97			
17	86.97	92.56			
18	92.56	98.78			
19	98.78	103.19			
20	103.19	107.09			
21	107.09	110.64			
22	110.64	114.86			
23	114.86	121.00			
24	121.00	127.41			
25	127.41	134.53			
26	134.53	138.42			
27	138.42	142.65			
28	142.65	146.53			
29	146.53	150.56			
30	150.56	153.31			
	153.31	E.O.H.			

RAU PROJECT

ZONE: Tiger
SECTION: 10+120W

HOLE: Rau-09-26
CLAIM: Rau 54

Easting	Northing	Elev.	Depth (m)
528487.79	7119204.47	1281.95	292.76

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: BTW
Casing depth: 1.52 (m) out

Drilling dates: July 1-6, 2009

Logged by: J. Lane

Target: Infill between Rau-08-06 and Rau-08-18 (massive pyrite)

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.98	1.98	OVB	
1.98	14.93	12.95	LST	Fossiliferous
14.93	18.55	3.62	DOL	
18.55	30.47	11.92	LST	Altered
30.47	34.62	4.15	VOL	Altered
34.62	49.19	14.57	LST	
49.19	90.73	41.54	LST	Mineralized
90.73	105.30	14.57	DOL	Mineralized
105.30	126.70	21.40	VOL	Altered
126.70	192.40	65.70	LEP	Volcaniclastic
192.40	292.76	100.36	LST	Rubbly

SAMPLES

Numbers: H247111-H247164, H247200-H247203
H247221
Total: 59 (Batches 9, 10, 12)
Date sent:
Certificate: VA09072171, VA09071909, VA09072702

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-26

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.98	1.98	OVB																			
1.98	14.93	12.95	LST	FOS	MA	FR	50															Medium grey, fossiliferous, massive, banded and brecciated variably dolomitized limestone with thin fractures at 50 deg to CA. Thin Ca veinlets irregularly cut the limestone.
																						1.98-3.95 m: Fossiliferous limestone with crinoid fragments and coral mounds.
					BX	VN	15															5.88-11.62 m: Brecciated dark grey limestone. Breccia clasts are 0.5-4 cm in diameter and subrounded to subangular in shape. Starting at 9.5 m the breccia looks more fluid altered. Ca veins cut the breccia at 15 deg to CA.
					BN	BD	60		ms													11.62-14.93 m: Medium to dark grey banded dolomitized limestone with dark grey thin (~ 1 mm) crenulated layers. The crenulated layers displace calcite veins in a stepwise texture. Very coarse grained dolomite occurs in veins running at a similar orientation to the Ca ones.
						VN	30	90														
14.93	18.55	3.62	DOL		BN	BD	40					f			f							Coarse grained white-cream-grey dolomite with pyrite rich bands cutting the dolomite at 40 deg to CA. There is fair oxidation of the sulphides and on fractures.
																						16.92-17.02 m: very pyrite rich zone. Pyrite occurs in coarse grained subhedral patchy crystals.
18.55	30.47	11.92	LST			VN	45								w							Medium grey limestone with dark grey crenulated bands ~ 1mm thick at 65 deg to CA. Medium to coarse grained dolomite stockwork veins cut the limestone at 40-50 deg to CA but are often offset a few mm to ~1 cm.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	65			m					f							25.88-30.47 m: Thin ~1 mm dark grey intermixed layers 0.5-2cm thick of sericite altered volcaniclastic occur at 65 deg to CA. Pyrite occurs as disseminated patches as well as in very thin bands matching the bedding angle. 60% limestone, 40% volcaniclastic. Dolomite veins cut the limestone/volcaniclastic at 30 deg to CA.
						VN	30	100														
30.47	34.62	4.15	VOL	ALT	BN	BD	65			ms					f							Medium greyish-green sericite altered, fine grained volcaniclastic. The sericite is banded with the non-altered brownish tan volcaniclastic. Pyrite occurs as fine disseminations along layering. Upper contact is gradational, lower contact is quite sharp at 75 deg to the CA. There is a gradual decrease in the amount of sericite alteration towards the bottom of the interval.
						CN	75															
34.62	49.19	14.57	LST		BN	BD	65								f	w						Banded medium grey limestone with dolomite veins 1-3 cm thick cutting at 30 deg to CA and 90 deg to banding. Weak pyrite occurs as fine grained patches and disseminations in the limestone.
						VN	30	90														
															m	w						37.96-38.46 m: Coarse grained dolomitized vein (?). Moderate pyrite and weak arsenopyrite occur as fine grained disseminations throughout. Upper and lower contacts are relatively sharp.
															f	w						38.46-44.56 m: Medium grey limestone with 0.5-1 cm thick dolomite stockwork veins. Pyrite and arsenopyrite occur as fine grained disseminations and small patches.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	50								w	t						44.56-49.19 m: Medium to dark grey limestone with coarse grained dolomite patches. Slight brecciation occurs in top 15 cm of interval. Clasts are 0.5-1.5 cm in diameter and sub-rounded in shape. Dolomite vein concentration decreases around 47 m revealing original banded limestone.
49.19	90.73	41.54	LST	MX	VN	VN	45								f	w						Medium to dark grey fluid altered limestone with more concentrated patches and zones of coarse grained dolomite that appear to be vein controlled. Some veins can be measured at 45 deg to CA, but others are extremely irregular. Trace pyrite up until 62.12 m when it begins to appear in more concentrated 0.5-3 cm patches. Quartz flood is also quite common, up to 30% in some areas.
															w	t						49.19-57.05 m: Light grey, medium grained dolomite with pyrite and arsenopyrite patches occurring along crackle fractures. Coarse grained quartz floods the core from 55.90-56.30 m and contains no mineralization.
																						57.05-62.87 m: Medium to dark grey fluid altered limestone, containing irregular patches of dolomite. Contains irregular quartz flood.
																						62.87-66.42 m: Medium grained dolomite with quartz flood throughout. 30% quartz. Pyrite occurs in patches 0.5-3 cm diameter.
						VN	60								w							66.42-69.94 m: Medium to dark grey limestone with dolomite veins cut by a quartz vein. Mineralization is patchy and most concentrated around the dolomite. 1% quartz, 30% dolomite, 69% limestone.
						BD	40		f						m	f						69.94-78.26 m: Medium grey dolomitized limestone with quartz patches. Faint banding occurs at 40 deg to CA. Pyrite and arsenopyrite occur in coarse grained patches concentrated in zones of more intense dolomitization. The limestone itself appears fluid brecciated.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															w	t	t					78.26-90.73 m: Medium grey limestone with quartz +/- carbonate +/- dolomite veins cutting it. There ar zones of more pure massive limestone and zones which are crackle fluid collapse brecciated.
90.73	105.30	14.57	DOL	MX	BN	BD	65								ms	f	w					Coarse grained patchy dolomite with a dramatic increase in the pyrite pyrrhotite and arsenopyrite concentrations. They both occur as medium to coarse grained patches scattered throughout. Banding occurs on average at 65 deg to CA.
						BD	60								f	f						95.50-98.15 m: Core shows a more banded appearance in this area, the pyrite and arsenopyrite are concentrated along thin bands at 60 deg to CA.
						BD	70								w	m						98.15-102.35 m: Increase in the amount of dolomite. The core is now almost white and quite coarse grained. A slight banded texture of medium grained pyrite and arsenopyrite occurs at 70 deg to CA.
						BD	50								f	t						102.35-105.30 m: Medium to coarse grained dolomite with an increase in medium to dark grey limestone intervals. Faint banding occurs. Pyrite is fine to medium grained, patchy and concentrated in bands at 50 deg to CA.
105.30	126.70	21.40	VOL	ALT	BN	FO	50			ms					w							Moderately foliated, sericite altered volcaniclastic, with bands of fine grained pyrite at 50 deg to CA. Alteration becomes less intense towards the end of the interval.
						CN	50															
						FO	85			w					w							107.81-111.72 m: Brownish medium grained volcaniclastic with a faint foliation represented by layers of beige-green sericite alteration. Pyrite occurs as fine grained often concentrated into faint bands. Veins of Qz+/- Ca cut the unit at 20, 40, and 80 deg to CA. These veins are 0.5-1.25 cm thick.
						VN	40	90														
						VN	20	270														

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															s							109.51-109.56m. Concentrated zone of massive pyrite.
						FO	50			m					t							111.72-126.70 m: Moderately sericite altered beige-grey volcaniclastic with a foliation at 50 deg to CA. Ca veins cut the foliation and are 0.2-0.5 cm thick. Trace pyrite occurs as very fine grained disseminations. The lower contact is gradational into leopard printed volcaniclastic.
126.70	192.40	65.70	LEP			FO	60															Medium grey leopard printed volcaniclastic with faint foliation at 60 deg to CA. Fizzes strongly with acid. There appears to be 5% evenly disseminated fine grained biotite crystals throughout.
						VN	45															132.31-162.60 m: Finer textured leopard print volcaniclastic gradually becoming coarser towards the bottom. Ca veins 0.2-1 cm thick cut the core at 45 deg to CA. Very faint foliation at 50 deg to CA.
						FO	50															
						VN	70															162.60-168.03 m: Increase in the concentration of veins. Now Qz+/- Ca veins occur in 2 phases. 1) Thicker 0.5-1.5 cm Qz +/- CA at 70 deg to CA these are cut by more irregular 2) thinner 0.2-0.5 cm Ca veins.
						VN	50															163.98m: Begin to see green/blue mineral (talc or chlorite?). In this location it occurs in a Qz +/- Ca vein, but it can also be seen dusting fractures. The volcaniclastic appears to be more biotite rich in this zone.
				ALT		VN	35			f					f							168.03-189.45 m: Ca veinlets cut at 35-65 deg to CA some of which have bleached/altered halos around them. Thin zones of sericite alteration occur within. Finely disseminated pyrite occurs within.
						VN	65															
				ALT		FO	60			w												189345-192.40 m: A gradual decreased grain size version of the unit above. Pyrite occurs as very fine grained disseminated layers. Sericite alteration occurs in patchy layers.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
192.40	292.76	100.36	LST	RBL	CR	BD	75		s						w			Sp	w			Strongly dolomitized faintly crackle brecciated limestone. Top of interval has black graphitic layers with very fine grained disseminated pyrite.
															f							196.88-197.25 m: banded graphitic finely disseminated pyrite zone. Bedding is slightly wavy.
						FR	30		s													197.25-199.00 m: Extremely crackle brecciated, strongly dolomitized limestone. Common crack orientations are 30 and 80 deg to CA. Core is very rubbly in zones.
						FR	80															
																		Sp	w	Gn	t	199.00-200.40 m: Crackle breccia has been brecciated further by Ca +/- Dol veins. Red and purple-brown sphalerite occurs sub to euhedral crystals on fractured surfaces. Trace fine grained galena (cubic shape and metallic colour) occurs adjacent to the sphalerite in a few places. Interval is particularly fractured and rubbly.
						BD	80		s						w							200.40-206.04 m: Extremely crackle brecciated strongly dolomitized limestone. Quartz veins occasionally erratically cut limestone. Thin 2-5 cm dark grey horizons appear less brecciated and have minor very finely disseminated pyrite along possible banding at 80 deg to CA.
			DOL																			206.04-211.23 m: Medium grained dolomite crackle breccia. Very rubbly over most of the interval. No obvious preferred crackle orientation. Crackle is significantly less intense then the zone above.
									t													211.23-211.70 m: Medium grey very fractured and rubbly limestone. Fizzes slightly with acid.
			DOL			VN	40															211.70-230.85 m: White, medium grained moderately crackle brecciated dolomite. Cracks are dark grey in colour. Thin dark grey veins cut the breccia very occasionally at 40 deg to CA. The core is fairly to strongly rubbly. Occasional blue-green dusting on fractured surfaces.
															f							224.50-225 m: Pyrite occurs in fairly concentrated patches surrounding cracks.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
									m									Sp	f	Gn	t	230.85-232.26 m: Dark grey more intensely brecciated and quartz flooded dolomitized limestone The core is rubbly, but larger pieces are slightly vuggy. Within these vugs fine grained sub to euhedral sphalerite crystals occur. The sphalerite is red and dark red-brown. Weak galena occurs generally associated with the sphalerite.
						VN	30		m						w			Sp	w			232.26-238.66 m: Medium grey dolomitized crackle brecciated limestone, highly fractured up until 233.5 m. Ca veins cut breccia at 30 deg to CA. Sphalerite occurs in zones of highly fractured dolomite.
									m						f			Sp	w			236.18-236.80 m: The breccia clasts have become more milled. Clasts are ~1 cm, subrounded and matrix supported. Sphalerite occurs in the dolomite matrix. Pyrite occurs as scattered fine disseminations and patches.
					CR	FR	10		m						f							236.80-245.75 m: Medium grey dolomitized limestone with clear crackle texture. Cracks are dark grey while the rest of the core is light to medium grey. Common crack orientation is 10 and 80 deg to CA. Coarse grained quartz veins cut the unit at 65 deg to CA. Pyrite seems concentrated in the areas where quartz veins occur.
						FR	80															
						VN	65															
															m							242.32-245.75 m: Massive coarse grained quartz vein which contains thin veinlets of pyrite. Upper contact 70 deg, Lower contact 65 deg.
						VN	30		ms						w			Sp	w			245.75-261.00 m: More intensely dolomitized crackle brecciated limestone. Has a recrystallized appearance. Dominant crack orientation is 10 deg to CA. Qz +/- Dol veins cut the breccia at 30 deg to CA. Red sphalerite crystals occur within the dolomite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															w							261.00-276.45 m: Very fractured and rubbly dolomitized brecciated limestone. At 270.05 m the breccia becomes more intense. Clasts are 0.5-2 cm in diameter and subrounded. Pyrite is finely disseminated.
									ms						w					Sp	f	276.45-292.76 m: Very fractured and rubbly oxidized limestone. Poor recovery in general. FAULT?? Fragments are angular to sub-rounded and are on average 2 cm in size (pea gravel size). The surfaces are fairly oxidized. Weak to fair sphalerite appears on fractured surfaces.
																						292.76 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-26

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.05	3.05	0.58	19	0.24	8	MS	FR	
3.05	3.35	0.30	0.30	100	0.20	67	MS	FR	
3.35	3.81	0.46	0.20	43	0.11	24	MS	FR	
3.81	6.10	2.29	2.29	100	1.90	83	MS	FR	
6.10	7.62	1.52	1.52	100	1.22	80	MS	FR	
7.62	10.67	3.05	3.05	100	2.94	96	MS	FR	
10.67	13.72	3.05	3.05	100	2.36	77	MS	FR	
13.72	16.76	3.04	3.04	100	2.57	85	MS	FR	
16.76	19.81	3.05	3.05	100	3.00	98	MS	FR	
19.81	22.86	3.05	3.05	100	2.92	96	MS	FR	
22.86	25.91	3.05	3.05	100	2.92	96	MS	FR	
25.91	28.96	3.05	3.05	100	2.74	90	MS	FR	
28.96	32.00	3.04	3.04	100	2.24	74	MS	FR	
32.00	35.05	3.05	3.05	100	2.24	73	MS	FR	
35.05	38.10	3.05	3.03	99	2.81	92	MS	FR	
38.10	40.84	2.74	2.67	97	2.05	75	MS	FR	
40.84	43.89	3.05	3.05	100	2.93	96	MS	FR	
43.89	46.94	3.05	3.02	99	3.02	99	MS	FR	
46.94	50.14	3.20	3.14	98	2.81	88	MS	FR	
50.14	51.82	1.68	1.63	97	1.23	73	MS	FR	
51.82	54.86	3.04	3.04	100	2.78	91	MS	FR	
54.86	57.91	3.05	3.00	98	2.40	79	MS	FR	
57.91	60.96	3.05	3.05	100	2.80	92	MS	FR	
60.96	63.55	2.59	2.59	100	2.33	90	MS	FR	
63.55	65.53	1.98	1.92	97	1.27	64	MS	FR	
65.53	68.58	3.05	3.00	98	2.78	91	MS	FR	
68.58	71.63	3.05	3.05	100	2.96	97	MS	FR	
71.63	74.68	3.05	3.05	100	2.65	87	MS	FR	
74.68	77.72	3.04	3.00	99	2.86	94	MS	FR	
77.72	80.77	3.05	2.95	97	2.92	96	MS	FR	
80.77	83.82	3.05	3.00	98	2.88	94	MS	FR	
83.82	86.87	3.05	3.05	100	2.74	90	MS	FR	
86.87	89.92	3.05	3.05	100	2.88	94	MS	FR	
89.92	92.96	3.04	2.78	91	2.31	76	MS	FR	
92.96	93.73	0.77	0.77	100	0.67	87	MS	FR	
93.73	94.03	0.30	0.30	100	0.30	100	MS	FR	
94.03	96.01	1.98	1.98	100	1.98	100	MS	FR	
96.01	99.06	3.05	3.05	100	2.92	96	MS	FR	
99.06	102.11	3.05	3.05	100	3.05	100	MS	FR	
102.11	105.16	3.05	3.05	100	3.01	99	MS	FR	
105.16	108.20	3.04	3.04	100	2.47	81	MS	FR	
108.20	111.25	3.05	3.05	100	2.99	98	MS	FR	
111.25	114.30	3.05	3.05	100	2.87	94	MS	FR	
114.30	117.35	3.05	3.05	100	2.83	93	MS	FR	
117.35	120.40	3.05	3.05	100	3.05	100	MS	FR	
120.40	123.44	3.04	3.04	100	2.90	95	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
123.44	126.49	3.05	3.05	100	2.95	97	MS	FR	
126.49	129.54	3.05	3.01	99	3.01	99	MS	FR	
129.54	132.59	3.05	3.05	100	3.01	99	MS	FR	
132.59	135.64	3.05	3.04	100	2.62	86	MS	FR	
135.64	138.68	3.04	3.04	100	2.95	97	MS	FR	
138.68	141.73	3.05	3.05	100	3.03	99	MS	FR	
141.73	144.78	3.05	3.05	100	2.95	97	MS	FR	
144.78	147.83	3.05	3.05	100	3.00	98	MS	FR	
147.83	150.88	3.05	3.03	99	3.00	98	MS	FR	
150.88	153.92	3.04	3.04	100	3.02	99	MS	FR	
153.92	156.97	3.05	2.99	98	2.99	98	MS	FR	
156.97	160.02	3.05	3.05	100	2.98	98	MS	FR	
160.02	163.07	3.05	3.03	99	2.94	96	MS	FR	
163.07	164.59	1.52	1.52	100	1.41	93	MS	FR	
164.59	167.64	3.05	3.05	100	2.26	74	MS	FR	
167.64	170.38	2.74	2.74	100	1.95	71	MS	FR	
170.38	172.97	2.59	2.59	100	2.59	100	MS	FR	
172.97	176.02	3.05	3.05	100	2.88	94	MS	FR	
176.02	178.31	2.29	2.29	100	2.18	95	MS	FR	
178.31	181.36	3.05	3.05	100	2.88	94	MS	FR	
181.36	184.40	3.04	3.04	100	3.04	100	MS	FR	
184.40	187.45	3.05	3.05	100	2.92	96	MS	FR	
187.45	190.50	3.05	3.05	100	2.98	98	MS	FR	
190.50	193.55	3.05	3.05	100	2.38	78	MS	FR	
193.55	195.83	2.28	2.28	100	1.93	85	MS	FR	
195.83	197.21	1.38	1.38	100	1.00	72	MS	FR	
197.21	199.64	2.43	2.43	100	1.30	53	MS	FR	
199.64	201.02	1.38	1.38	100	0.28	20	MS	FR	
201.02	201.63	0.61	0.61	100	0.00	0	MS	FR	
201.63	204.22	2.59	2.59	100	1.20	46	MS	FR	
204.22	205.28	1.06	1.06	100	0.27	25	MS	FR	
205.28	206.04	0.76	0.76	100	0.00	0	MS	SW	
206.04	206.50	0.46	0.46	100	0.00	0	MS	SW	
206.50	207.26	0.76	0.76	100	0.00	0	MS	SW	
207.26	207.72	0.46	0.46	100	0.10	22	MS	SW	
207.72	208.48	0.76	0.76	100	0.12	16	MS	SW	
208.48	210.31	1.83	1.83	100	0.40	22	MS	SW	
210.31	211.23	0.92	0.92	100	0.32	35	MS	SW	
211.23	212.45	1.22	1.22	100	0.00	0	MS	SW	
212.45	214.88	2.43	2.43	100	1.17	48	MS	SW	
214.88	216.10	1.22	1.22	100	0.77	63	MS	SW	
216.10	218.85	2.75	2.75	100	1.62	59	MS	FR	
218.85	221.89	3.04	3.04	100	2.28	75	MS	FR	
221.89	224.94	3.05	3.05	100	1.69	55	MS	FR	
224.94	227.08	2.14	1.85	86	1.68	79	MS	FR	
227.08	229.51	2.43	2.25	93	1.04	43	MS	FR	
229.51	231.50	1.99	1.99	100	1.50	75	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
231.50	232.26	0.76	0.43	57	0.00	0	MS	SW	
232.26	233.93	1.67	1.57	94	0.35	21	MS	SW	
233.93	235.46	1.53	1.40	92	0.97	63	MS	FR	
235.46	237.29	1.83	1.35	74	0.95	52	MS	FR	
237.29	238.66	1.37	1.15	84	0.38	28	MS	FR	
238.66	240.80	2.14	2.14	100	1.12	52	MS	FR	
240.80	243.53	2.73	2.73	100	0.90	33	MS	FR	
243.53	245.36	1.83	1.60	87	0.10	5	MS	FR	
245.36	247.95	2.59	2.50	97	0.91	35	MS	FR	
247.95	250.70	2.75	2.51	91	0.89	32	MS	FR	
250.70	252.68	1.98	1.98	100	1.03	52	MS	FR	
252.68	254.81	2.13	2.04	96	0.54	25	MS	FR	
254.81	256.95	2.14	1.88	88	0.90	42	MS	FR	
256.95	258.78	1.83	1.83	100	0.70	38	MS	FR	
258.78	260.76	1.98	1.82	92	0.47	24	MS	FR	
260.76	261.67	0.91	0.91	100	0.00	0	MS	SW	
261.67	263.50	1.83	1.83	100	0.00	0	ES	SW	
263.50	265.63	2.13	1.94	91	0.23	11	MS	FR	
265.63	267.61	1.98	1.98	100	0.00	0	ES	FR	
267.61	270.05	2.44	1.83	75	0.00	0	ES	SW	
270.05	272.19	2.14	2.00	93	1.14	53	MS	FR	
272.19	275.09	2.90	2.58	89	0.00	0	MS	FR	
275.09	276.45	1.36	1.08	79	0.00	0	ES	FR	
276.45	277.67	1.22	1.00	82	0.00	0	ES	SW	
277.67	278.59	0.92	0.92	100	0.00	0	MS	SW	
278.59	279.50	0.91	0.00	0	0.00	0	-	SW	
279.50	279.81	0.31	0.00	0	0.00	0	-	SW	
279.81	279.96	0.15	0.15	100	0.00	0	-	SW	
279.96	280.41	0.45	0.00	0	0.00	0	-	SW	
280.41	280.72	0.31	0.00	0	0.00	0	-	SW	
280.72	281.33	0.61	0.00	0	0.00	0	-	SW	
281.33	281.63	0.30	0.00	0	0.00	0	-	SW	
281.63	282.55	0.92	0.84	91	0.00	0	-	SW	
282.55	283.77	1.22	0.77	63	0.00	0	ES	SW	
283.77	285.60	1.83	0.09	5	0.00	0	ES	SW	
285.60	286.05	0.45	0.45	100	0.00	0	ES	SW	
286.05	288.49	2.44	1.80	74	0.00	0	ES	SW	
288.49	291.54	3.05	0.56	18	0.00	0	ES	SW	
291.54	291.85	0.31	0.23	74	0.00	0	ES	SW	
291.85	292.00	0.15	0.04	27	0.00	0	ES	SW	
292.00	292.76	0.76	0.00	0	0.00	0	-	SW	
	E.O.H	292.76							

SAMPLE LOG

HOLE: RAU-09-26

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
9.00	12.00	3.00	3.00	100	H247111	6.0	9	0.06	0.21	31	1.35	
12.00	14.93	2.93	2.93	100	H247112	6.0	9	0.07	0.29	36	11.90	
14.93	16.76	1.83	1.80	98	H247113	3.5	9	0.01	0.03	323	7.32	
16.76	18.55	1.79	1.79	100	H247115	4.0	9	0.55	0.13	289	103.00	
18.55	20.50	1.95	1.95	100	H247116	3.5	9	0.47	0.11	109	35.10	
20.50	22.86	2.36	2.36	100	H247117	5.0	9	0.09	0.03	14	10.65	
22.86	25.88	3.02	3.02	100	H247118	6.0	9	0.08	0.03	15	8.93	
25.88	28.90	3.02	3.02	100	H247119	6.0	9	0.25	0.02	52	17.20	
28.90	30.41	1.51	1.51	100	H247121	3.5	9	0.09	0.03	26	7.98	
30.41	32.00	1.59	1.52	96	H247122	3.5	9	0.06	<0.01	128	4.65	
32.00	34.62	2.62	2.62	100	H247123	6.0	9	0.07	<0.01	83	27.30	
34.62	36.96	2.34	2.34	100	H247125	5.0	9	0.21	0.01	46	20.80	
36.96	38.46	1.50	1.50	100	H247126	4.0	9	4.02	0.41	>10000	41.50	
38.46	40.84	2.38	2.34	98	H247127	4.0	9	0.17	0.06	73	13.35	
40.84	42.42	1.58	1.56	99	H247128	3.5	10	0.01	0.03	460	8.45	
42.42	44.56	2.14	2.14	100	H247129	4.5	10	0.02	0.10	125	234.00	
44.56	46.94	2.38	2.25	95	H247130	5.0	10	0.20	0.11	454	15.65	
46.94	49.19	2.25	2.20	98	H247131	4.0	10	0.13	0.17	211	26.10	
49.19	51.81	2.62	2.55	97	H247132	5.0	10	0.04	0.08	194	38.00	
51.81	54.86	3.05	3.05	100	H247133	6.0	10	0.05	0.05	788	38.10	
54.86	57.05	2.19	2.15	98	H247134	4.0	10	0.29	0.17	7680	57.70	
57.05	60.00	2.95	2.95	100	H247135	6.0	10	0.13	0.12	250	48.40	
60.00	62.87	2.87	2.87	100	H247137	5.5	10	0.10	0.11	4160	34.20	
62.87	64.00	1.13	1.13	100	H247138	2.5	10	0.19	0.15	5620	153.00	
64.00	66.42	2.42	2.33	96	H247139	5.0	10	0.08	0.12	1140	140.50	
66.42	68.58	2.16	2.11	98	H247140	4.0	10	0.28	0.08	8930	58.40	
68.58	69.94	1.36	1.36	100	H247141	2.5	10	0.04	0.10	402	2.60	
69.94	71.63	1.69	1.69	100	H247142	3.5	10	0.61	0.20	>10000	2820.00	
71.63	74.68	3.05	3.05	100	H247143	6.0	10	0.49	0.11	>10000	121.50	
74.68	77.00	2.32	2.28	98	H247145	5.0	10	0.48	0.08	>10000	72.00	
77.00	78.26	1.26	1.26	100	H247146	3.0	10	1.63	0.11	>10000	130.50	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
78.26	80.77	2.51	2.46	98	H247148	5.0	10	2.37	0.07	3190	39.20	
80.77	83.82	3.05	3.03	99	H247149	6.0	10	0.62	0.10	506	46.00	
83.82	86.87	3.05	3.03	99	H247150	6.0	10	0.11	0.09	4360	72.50	
86.87	89.00	2.13	2.11	99	H247151	4.0	10	0.17	0.09	6050	160.50	
89.00	90.73	1.73	1.70	98	H247152	3.5	10	0.17	0.11	5340	56.30	
90.73	93.73	3.00	2.97	99	H247153	7.0	10	0.76	0.17	>10000	57.30	
93.73	95.50	1.77	1.77	100	H247154	6.0	10	1.21	0.15	>10000	117.50	
95.50	98.15	2.65	2.63	99	H247155	5.5	10	1.31	0.10	>10000	60.40	
98.15	100.00	1.85	1.83	99	H247156	4.0	10	0.16	0.06	6840	145.50	
100.00	102.35	2.35	2.35	100	H247157	5.0	10	0.14	0.08	2020	128.50	
102.35	105.30	2.95	2.95	100	H247159	6.0	10	0.35	0.05	1840	527.00	
105.30	107.81	2.51	2.51	100	H247160	5.5	10	0.04	0.21	86	84.40	
107.81	110.00	2.19	2.18	100	H247162	4.0	10	0.08	0.16	51	169.00	
110.00	111.72	1.72	1.71	99	H247163	3.0	10	0.02	0.16	67	273.00	
111.72	113.52	1.80	1.80	100	H247164	3.0	11	0.01	<0.01	17	42.30	
190.50	193.55	3.05	3.00	98	H247200	6.0	12	0.02	0.32	59	0.92	
197.21	199.64	2.43	2.38	98	H247201	4.0	12	<0.01	2.10	7	0.38	
199.64	201.02	1.38	1.11	80	H247202	2.0	12	0.01	6.28	8	0.88	
229.51	232.26	2.75	2.48	90	H247203	4.0	12	0.12	0.52	11	0.73	
285.60	288.49	2.89	2.59	90	H247221	6.0	12	0.01	1.54	134	2.64	
-	-	-			H247114	5.0	9	<0.01	0.01	<5	0.04	Blank
25.88	28.90	3.02	3.02	100	H247120	3.5	9	0.37	0.02	54	13.55	Duplicate
-	-	-			H247124	0.3	9	0.49	0.77	5950	97.30	Standard Rau-1
-	-	-			H247136	4.0	10	<0.01	0.02	10	0.14	Blank
-	-	-			H247144	0.3	10	1.48	1.86	>10000	340.00	Standard Rau-2
-	-	-			H247147	0.3	10	5.79	0.25	>10000	450.00	Standard Rau-3
-	-	-			H247158	4.5	10	<0.01	0.01	18	0.75	Blank
105.30	107.81	2.51	2.51	100	H247161	2.5	10	0.05	0.19	92	51.40	Duplicate

DENSITY LOG

HOLE: RAU-09-26

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
6.67	LST	FOS		9.0	4.2	351.5	279.4	2.82	4.88
11.40	LST	FOS		9.0	4.2	286.4	182.8	2.30	2.76
15.43	DOL			11.0	4.2	329.1	211.0	2.16	2.79
23.80	LST	ALT		16.0	4.2	608.3	407.7	2.74	3.03
32.07	VOL	ALT		12.0	4.2	473.4	312.7	2.85	2.95
40.47	LST			9.0	4.2	361.6	235.5	2.90	2.87
50.14	LST	MX		11.0	4.2	407.9	266.1	2.68	2.88
68.58	LST	MX		13.0	4.2	471.4	305.5	2.62	2.84
74.50	LST	MX		11.0	4.2	605.0	462.7	3.97	4.25
89.80	LST	MX		14.0	4.2	547.6	413.2	2.82	4.07
93.01	DOL	MX		18.0	4.2	939.2	712.5	3.77	4.14
108.10	VOL	ALT		11.0	4.2	429.4	284.9	2.82	2.97
123.44	VOL	ALT		12.0	4.2	488.0	315.1	2.94	2.82
129.40	LEP			13.0	4.2	523.3	339.8	2.91	2.85
136.00	LEP			14.0	4.2	535.1	347.6	2.76	2.85
191.14	LEP			11.0	4.2	497.6	343.4	3.27	3.23
196.97	LST	RBL		11.0	4.2	500.6	345.8	3.28	3.23
201.90	LST	RBL		14.0	4.2	563.9	365.1	2.91	2.84
207.53	LST	RBL		11.0	4.2	424.1	274.8	2.78	2.84
215.10	LST	RBL		15.5	4.2	610.5	395.7	2.84	2.84
222.30	LST	RBL		11.0	4.2	423.6	274.7	2.78	2.84
222.78	LST	RBL		10.5	4.2	424.1	274.9	2.92	2.84
228.65	LST	RBL		8.5	4.2	333.2	215.8	2.83	2.84

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-26

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
1.00	OVB		0.00	
2.00	LST	FOS	0.00	
3.00	LST	FOS	0.00	
4.00	LST	FOS	0.04	
5.00	LST	FOS	0.08	
6.00	LST	FOS	0.02	
7.00	LST	FOS	0.24	
8.00	LST	FOS	0.45	
9.00	LST	FOS	0.04	
10.00	LST	FOS	0.02	
11.00	LST	FOS	0.02	
12.00	LST	FOS	0.32	
13.00	LST	FOS	0.10	
14.00	LST	FOS	0.18	
15.00	DOL		0.24	
16.00	DOL		0.53	
17.00	DOL		4.46	
18.00	DOL		0.06	
19.00	LST	ALT	0.22	
20.00	LST	ALT	0.08	
21.00	LST	ALT	0.08	
22.00	LST	ALT	0.28	
23.00	LST	ALT	0.10	
24.00	LST	ALT	0.12	
25.00	LST	ALT	0.04	
26.00	LST	ALT	0.06	
27.00	LST	ALT	0.16	
28.00	LST	ALT	0.34	
29.00	LST	ALT	0.08	
30.00	LST	ALT	0.08	
31.00	VOL	ALT	0.12	
32.00	VOL	ALT	0.18	
33.00	VOL	ALT	0.16	
34.00	VOL	ALT	0.08	
35.00	LST		0.12	
36.00	LST		0.43	
37.00	LST		0.28	
38.00	LST		0.30	
39.00	LST		0.06	
40.00	LST		0.75	
41.00	LST		0.06	
42.00	LST		1.84	
43.00	LST		3.16	
44.00	LST		8.71	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST		1.41	
46.00	LST		4.83	
47.00	LST		6.86	
48.00	LST		7.23	
49.00	LST		3.46	
50.00	LST	MX	0.73	
51.00	LST	MX	1.84	
52.00	LST	MX	1.96	
53.00	LST	MX	2.78	
54.00	LST	MX	0.28	
55.00	LST	MX	0.69	
56.00	LST	MX	0.61	
57.00	LST	MX	1.78	
58.00	LST	MX	2.15	
59.00	LST	MX	0.34	
60.00	LST	MX	5.43	
61.00	LST	MX	0.98	
62.00	LST	MX	3.62	
63.00	LST	MX	1.80	
64.00	LST	MX	0.43	
65.00	LST	MX	1.82	
66.00	LST	MX	2.80	
67.00	LST	MX	1.27	
68.00	LST	MX	3.38	
69.00	LST	MX	0.65	
70.00	LST	MX	4.40	
71.00	LST	MX	6.29	
72.00	LST	MX	6.90	
73.00	LST	MX	4.63	
74.00	LST	MX	194.00	
75.00	LST	MX	1.14	
76.00	LST	MX	1.88	
77.00	LST	MX	2.00	
78.00	LST	MX	1.70	
79.00	LST	MX	5.08	
80.00	LST	MX	1.02	
81.00	LST	MX	2.52	
82.00	LST	MX	0.51	
83.00	LST	MX	0.51	
84.00	LST	MX	1.57	
85.00	LST	MX	6.08	
86.00	LST	MX	1.53	
87.00	LST	MX	1.61	
88.00	LST	MX	4.10	
89.00	LST	MX	7.27	
90.00	LST	MX	3.60	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
91.00	DOL	MX	4.12	
92.00	DOL	MX	0.28	
93.00	DOL	MX	3.07	
94.00	DOL	MX	1.20	
95.00	DOL	MX	0.34	
96.00	DOL	MX	4.96	
97.00	DOL	MX	2.74	
98.00	DOL	MX	1.37	
99.00	DOL	MX	0.75	
100.00	DOL	MX	1.25	
101.00	DOL	MX	1.27	
102.00	DOL	MX	0.49	
103.00	DOL	MX	0.30	
104.00	DOL	MX	0.55	
105.00	DOL	MX	2.89	
106.00	VOL	ALT	4.83	
107.00	VOL	ALT	0.14	
108.00	VOL	ALT	14.00	
109.00	VOL	ALT	7.07	
110.00	VOL	ALT	15.50	
111.00	VOL	ALT	1.90	
112.00	VOL	ALT	3.38	
113.00	VOL	ALT	3.38	
114.00	VOL	ALT	17.40	
115.00	VOL	ALT	82.80	
116.00	VOL	ALT	0.26	
117.00	VOL	ALT	0.18	
118.00	VOL	ALT	0.45	
119.00	VOL	ALT	1.76	
120.00	VOL	ALT	1.10	
121.00	VOL	ALT	1.96	
122.00	VOL	ALT	1.25	
123.00	VOL	ALT	1.98	
124.00	VOL	ALT	1.72	
125.00	VOL	ALT	0.98	
126.00	VOL	ALT	1.29	
127.00	LEP		0.41	
128.00	LEP		0.51	
129.00	LEP		0.30	
130.00	LEP		0.63	
131.00	LEP		0.55	
132.00	LEP		0.41	
133.00	LEP		0.75	
134.00	LEP		0.49	
135.00	LEP		0.98	
136.00	LEP		0.53	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
137.00	LEP		0.47	
138.00	LEP		0.51	
139.00	LEP		0.47	
140.00	LEP		0.51	
141.00	LEP		0.43	
142.00	LEP		0.43	
143.00	LEP		0.43	
144.00	LEP		0.41	
145.00	LEP		0.49	
146.00	LEP		0.41	
147.00	LEP		0.30	
148.00	LEP		0.28	
149.00	LEP		0.30	
150.00	LEP		0.26	
151.00	LEP		0.30	
152.00	LEP		0.34	
153.00	LEP		0.43	
154.00	LEP		0.28	
155.00	LEP		0.32	
156.00	LEP		0.34	
157.00	LEP		0.43	
158.00	LEP		0.30	
159.00	LEP		0.49	
160.00	LEP		0.49	
161.00	LEP		0.36	
162.00	LEP		0.47	
163.00	LEP		0.88	
164.00	LEP		0.49	
165.00	LEP		0.61	
166.00	LEP		1.70	
167.00	LEP		0.14	
168.00	LEP		0.73	
169.00	LEP		0.38	
170.00	LEP		0.34	
171.00	LEP		0.38	
172.00	LEP		0.41	
173.00	LEP		0.73	
174.00	LEP		0.34	
175.00	LEP		0.34	
176.00	LEP		0.49	
177.00	LEP		0.61	
178.00	LEP		0.63	
179.00	LEP		0.77	
180.00	LEP		0.57	
181.00	LEP		0.38	
182.00	LEP		0.41	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
183.00	LEP		0.49	
184.00	LEP		0.51	
185.00	LEP		0.75	
186.00	LEP		0.92	
187.00	LEP		0.57	
188.00	LEP		0.41	
189.00	LEP		2.70	
190.00	LEP		1.12	
191.00	LEP		0.47	
192.00	LEP		0.28	
193.00	LST	RBL	0.00	
194.00	LST	RBL	0.02	
195.00	LST	RBL	0.00	
196.00	LST	RBL	0.00	
197.00	LST	RBL	0.02	
198.00	LST	RBL	0.02	
199.00	LST	RBL	0.02	
200.00	LST	RBL	0.02	
201.00	LST	RBL	0.00	
202.00	LST	RBL	0.02	
203.00	LST	RBL	0.00	
204.00	LST	RBL	0.02	
205.00	LST	RBL	0.00	
206.00	LST	RBL	0.02	
207.00	LST	RBL	0.00	
208.00	LST	RBL	0.00	
209.00	LST	RBL	0.00	
210.00	LST	RBL	0.04	
211.00	LST	RBL	0.00	
212.00	LST	RBL	0.02	
213.00	LST	RBL	0.00	
214.00	LST	RBL	0.00	
215.00	LST	RBL	0.00	
216.00	LST	RBL	0.02	
217.00	LST	RBL	0.02	
218.00	LST	RBL	0.02	
219.00	LST	RBL	0.02	
220.00	LST	RBL	0.02	
221.00	LST	RBL	0.02	
222.00	LST	RBL	0.00	
223.00	LST	RBL	0.00	
224.00	LST	RBL	0.02	
225.00	LST	RBL	0.00	
226.00	LST	RBL	0.00	
227.00	LST	RBL	0.04	
228.00	LST	RBL	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
229.00	LST	RBL	0.00	
230.00	LST	RBL	0.00	
231.00	LST	RBL	0.04	
232.00	LST	RBL	0.16	
233.00	LST	RBL	0.14	
234.00	LST	RBL	0.00	
235.00	LST	RBL	0.04	
236.00	LST	RBL	0.02	
237.00	LST	RBL	0.00	
238.00	LST	RBL	0.02	
239.00	LST	RBL	0.00	
240.00	LST	RBL	0.00	
241.00	LST	RBL	0.00	
242.00	LST	RBL	0.02	
243.00	LST	RBL	0.00	
244.00	LST	RBL	0.02	
245.00	LST	RBL	0.04	
246.00	LST	RBL	0.04	
247.00	LST	RBL	0.00	
248.00	LST	RBL	0.02	
249.00	LST	RBL	0.00	
250.00	LST	RBL	0.00	
251.00	LST	RBL	0.00	
252.00	LST	RBL	0.00	
253.00	LST	RBL	0.00	
254.00	LST	RBL	0.00	
255.00	LST	RBL	0.00	
256.00	LST	RBL	0.00	
257.00	LST	RBL	0.00	
258.00	LST	RBL	0.12	
259.00	LST	RBL	0.00	
260.00	LST	RBL	0.00	
261.00	LST	RBL	0.00	
262.00	LST	RBL	0.00	
263.00	LST	RBL	0.00	
264.00	LST	RBL	0.00	
265.00	LST	RBL	0.00	
266.00	LST	RBL	0.00	
267.00	LST	RBL	0.00	
268.00	LST	RBL	0.00	
269.00	LST	RBL	0.00	
270.00	LST	RBL	0.00	
271.00	LST	RBL	0.00	
272.00	LST	RBL	0.00	
273.00	LST	RBL	0.02	
274.00	LST	RBL	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
275.00	LST	RBL	0.00	
276.00	LST	RBL	0.00	
277.00	LST	RBL	0.00	
278.00	LST	RBL	0.00	
279.00	LST	RBL	0.00	
280.00	LST	RBL	0.00	
281.00	LST	RBL	0.00	
282.00	LST	RBL	0.00	
283.00	LST	RBL	0.10	
284.00	LST	RBL	0.06	
285.00	LST	RBL	0.14	
286.00	LST	RBL	0.02	
287.00	LST	RBL	0.16	
288.00	LST	RBL	0.57	
289.00	LST	RBL	0.08	
290.00	LST	RBL	0.06	
291.00	LST	RBL	0.20	
292.00	LST	RBL	0.22	

BOX LOG

HOLE: RAU-09-26

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	0.00	7.48	36	198.03	203.10
2	7.48	12.87	37	203.10	207.72
3	12.87	18.33	38	207.72	212.45
4	18.33	23.93	39	212.45	217.47
5	23.93	29.42	40	217.47	222.78
6	29.42	34.90	41	222.78	227.89
7	34.90	40.57	42	227.89	232.26
8	40.57	45.92	43	232.26	236.18
9	45.92	51.75	44	236.18	241.05
10	51.75	57.45	45	241.05	246.00
11	57.45	63.10	46	246.00	251.00
12	63.10	68.70	47	251.00	256.25
13	68.70	74.22	48	256.25	261.04
14	74.22	79.95	49	261.04	265.63
15	79.95	85.69	50	265.63	270.20
16	85.69	91.33	51	270.20	275.08
17	91.33	96.49	52	275.08	281.63
18	96.49	102.11	53	281.63	287.00
19	102.11	107.81	54	287.00	292.76
20	107.81	113.52		292.76	E.O.H.
21	113.52	119.20			
22	119.20	124.85			
23	124.85	130.56			
24	130.56	136.16			
25	136.16	141.73			
26	141.73	147.52			
27	147.52	153.15			
28	153.15	158.90			
29	158.90	164.59			
30	164.59	170.56			
31	170.56	175.85			
32	175.85	181.61			
33	181.61	187.45			
34	187.45	193.04			
35	193.04	198.03			

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-27
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528316	7119290	1339	89.31

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 4.57 (m) out

Drilling dates: July 3 - 6, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.60	3.60	OVB	
3.60	7.46	3.86	LST	Rubbly
7.46	16.35	8.89	VOL	
16.35	46.60	30.25	OX	Clay rich, with rubbly limonitic zones.
46.60	60.35	13.75	LST	
60.35	70.75	10.40	DOL	Altered
70.75	89.31	18.56	LST	Altered

SAMPLES

Numbers: H247175-H247199, H247204-H247220
Batches 11 & 12
Total: 43
Date sent:
Certificate: VA09072170, VA09072702

COMMENTS

GEOLOGY LOG

HOLE:Rau-09-27

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.60	3.60	OVB																			
3.60	7.46	3.86	LST	RBL	BN	BD	45															White-tan limestone. Quite broken up and rubbly. Fractured surfaces have a orange-brown alteration stain on them. Minor clay occurs in some rubbly zones. Faint banding occurs at 45 deg to CA. A broken up zone at 4 m fizzes strongly with acid, and may represent a Ca vein.
7.46	16.35	8.89	VOL		FO	FO	40			ms												Very clay altered, foliated medium grey volcaniclastic. Very rubbly and clay rich especially from 7.46 to ~ 12m. Recovery is poor. The core is quite vuggy and sericite altered.
16.35	46.60	30.25	OX	CLY								I										Medium yellow-orange-brown to dark orange brown oxide clay with angular sand sized fragments and rubbly oxide zones.
																						Orange-red-brown sandy clay. Angular 0.5 cm fragments of Qz occur within. Very poor recovery.
						BD	60															19.20-20.30 m: Dark orange-brown oxidized clay rich sand. Contains angular 0.1-0.5 cm fragments of limonite. Also contains coarse grained sand sized quartz fragments. Very faint band occurs at 60 deg to CA.
																						20.30-26.82 m: Orange-red-brown sand rich clay. Contains angular quartz fragments generally the size of coarse grained sand, but up to a 3 cm by 4 cm in size. Overall quartz represents 1-2 %.
																						28.35-31.39 m: Very coarse grained sand to gravel size fragments of quartz occur within a limonitic gritty interval. Gradually becomes less limonitic at 29 m. Becomes more of a green-grey colour. Quartz accounts for ~ 5%. FAULT ZONE???
																						31.39-31.88 m: Tan-brown soupy clay with very few rock fragments.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						31.88-32.92 m: Orange-red-brown clay with 1-3 % small rock fragments 1-3 mm in size. Outside of core is coated in quartz sand. Also have large limonite fragments 3 by 3 cm at 31.88 m.
																						32.92-33.94 m: Yellow-brown oxide clay with 0.2-1 cm angular quartz fragments ~ 5%.
																						33.94-38.47 m: Very rubbly rock fragments held together with gritty clay. In more clay rich zones angular quartz fragments occur.
																						38.47-39.53 m: Dark grey brown limonite rubble. Too oxidized to discern any original textures.
																						39.53-46.60 m: Intensely oxidized red/purple limonitic clay and rock fragments with sand to grit sized fragments of rock (mostly crumbly limonite). Faint banding occurs at 60 deg to CA within muddy clay.
																						~41.75 m: The limonite fragments have a crystalline appearance, glittering in the sun.
46.60	60.35	13.75	LST		BN	BD	60					s										Poorly recovered zone of oxidized limestone. Fizzes strongly with acid. Possible banding at 60 deg to CA. Very crackly texture. Farther in the interval the fragments are considerably more limonitic obscuring original textures. And oxide zones containing clay also occur.
																						48.16-49.63 m: No recovery
												l										49.63-51.21 m: Very small zone of gritty quartz and limonite, fragments in clay.
									w			f			t							51.21-58.00 m: Heavily oxidized slightly dolomitized crackle brecciated limestone. Very fractured and rubbly. Pyrite occurs as trace oxidized medium grained crystals.
																						58.00-60.35 m: Dark brown gritty sandy oxide zone with minor clay.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
60.35	70.75	10.40	DOL	ALT	MA	VN	70					ms			f	f						Very coarse grained dolomite with moderately stron oxidation stain. Small to medium grained pyrite occurs scattered throughout and are intensely oxidized. Arsenopyrite clots and subhedral crystals 0.5-1.5 cm in diameter occur scattered throughout and are strongly oxidized particularly from 64.70-64.92 m. Thin sulphide bearing veinlets cut the dolomite at 70 deg to CA.
																						63.00-63.25 m: 25 cm zone of medium orange brown gritty oxide clay
70.75	89.31	18.56	LST	ALT		VN	50		ms			m										Moderately dolomitized fluid collapse brecciated medium grey limestone. Slightly recessive Ca veins cut the breccia at 50 deg to CA.
																						Extremely oxidized fine grained pyrite crystals are concentrated in the more dolomitized zones, particularly from 72.29-72.40 m.
																						75.65-78.64 m: Very rubbly zone with intermixed dark brown rubbly sandy clay and some 2-10 cm fragments of dolomitized limestone.
																						89.21-89.31 m: Dark brown clay with a fragment (1.5 cm in diameter) of arsenopyrite.
																						89.31 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-27

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.61	3.96	0.35	0.35	100	0.20	57	MW	MS	
3.96	5.49	1.53	0.40	26	0.10	7	MW	MS	
5.49	7.01	1.52	0.90	59	0.49	32	MW	MS	
7.01	8.53	1.52	0.62	41	0.33	22	MW	MS	
8.53	10.06	1.53	0.20	13	0.00	0	MW	MS	
10.06	13.11	3.05	1.34	44	0.00	0	MW	MS	
13.11	14.63	1.52	0.59	39	0.18	12	MW	MS	
14.63	16.15	1.52	0.23	15	0.00	0	MW	MS	
16.15	17.68	1.53	0.36	24	0.00	0	EW	EW	
17.68	19.20	1.52	0.07	5	0.00	0	EW	EW	
19.20	20.73	1.53	1.50	98	0.00	0	EW	EW	
20.73	22.25	1.52	1.23	81	0.00	0	EW	EW	
22.25	23.77	1.52	0.43	28	0.00	0	EW	EW	
23.77	25.30	1.53	0.30	20	0.00	0	EW	EW	
25.30	26.82	1.52	0.25	16	0.00	0	EW	EW	
26.82	28.35	1.53	0.29	19	0.00	0	EW	EW	
28.35	29.87	1.52	1.08	71	0.00	0	EW	EW	
29.87	31.39	1.52	0.21	14	0.00	0	EW	EW	
31.39	32.92	1.53	1.24	81	0.00	0	EW	EW	
32.92	34.44	1.52	1.35	89	0.00	0	EW	EW	
34.44	35.96	1.52	1.08	71	0.00	0	EW	EW	
35.96	39.01	3.05	0.83	27	0.00	0	EW	EW	
39.01	40.54	1.53	0.38	25	0.00	0	EW	EW	
40.54	42.06	1.52	1.52	100	0.00	0	EW	EW	
42.06	43.59	1.53	0.80	52	0.00	0	EW	EW	
43.59	45.11	1.52	0.48	32	0.00	0	EW	EW	
45.11	46.63	1.52	0.47	31	0.00	0	EW	EW	
46.63	48.16	1.53	0.40	26	0.11	7	EW	EW	
48.16	49.68	1.52	0.00	0	0.00	0	EW	EW	
49.68	51.21	1.53	0.09	6	0.00	0	EW	EW	
51.21	52.73	1.52	n/a	n/a	n/a	n/a	n/a	n/a	
52.73	54.25	1.52	0.20	13	0.00	0	EW	SW	
54.25	55.78	1.53	0.47	31	0.00	0	EW	MW	
55.78	57.30	1.52	0.64	42	0.00	0	EW	MW	
57.30	60.35	3.05	1.45	48	0.00	0	EW	MW	
60.35	61.87	1.52	1.50	99	1.20	79	MS	MW	
61.87	63.40	1.53	1.53	100	0.98	64	MS	MW	
63.40	64.92	1.52	1.30	86	0.85	56	MS	MW	
64.92	66.45	1.53	1.44	94	1.05	69	MS	MW	
66.45	67.97	1.52	1.46	96	1.35	89	MS	MW	
67.97	69.49	1.52	1.52	100	1.13	74	MS	MW	
69.49	71.02	1.53	1.26	82	0.95	62	MS	SW	
71.02	72.54	1.52	1.52	100	0.95	62	MS	SW	
72.54	74.07	1.53	1.48	97	0.76	50	MS	SW	
74.07	75.59	1.52	1.34	88	1.25	82	MS	MW	
75.59	77.11	1.52	1.00	66	0.00	0	EW	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
77.11	78.64	1.53	0.81	53	0.30	20	MS	-	
78.64	80.16	1.52	0.00	0	0.00	0	EW	MW	
80.16	81.69	1.53	0.61	40	0.43	28	MS	SW	
81.69	83.21	1.52	1.52	100	1.00	66	MS	SW	
83.21	84.73	1.52	1.52	100	1.16	76	MS	SW	
84.73	86.26	1.53	1.53	100	1.06	69	MS	SW	
86.26	87.48	1.22	1.22	100	0.91	75	MS	SW	
87.48	89.31	1.83	0.83	45	0.78	43	MS	SW	
	89.31	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-27

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.60	5.49	1.89	0.68	36	H247175	2.5	11	<0.01	0.16	50	0.18	
5.49	7.46	1.97	1.34	68	H247176	5.0	11	0.02	0.15	97	0.30	
7.46	10.06	2.60	0.33	13	H247177	1.5	11	<0.01	0.87	177	0.72	
10.06	13.11	3.05	0.97	32	H247178	4.0	11	<0.01	0.11	109	0.20	
13.11	14.63	1.52	0.50	33	H247179	2.0	11	0.01	0.16	62	0.25	
14.63	16.15	1.52	0.17	11	H247181	0.5	11	0.01	<0.01	61	0.45	
16.15	17.68	1.53	0.38	25	H247182	1.0	11	0.61	4.11	3330	136.00	
17.68	19.20	1.52	0.10	7	H247184	0.3	11	0.93	46.00	>10000	936.00	
19.20	22.25	3.05	2.35	77	H247186	10.0	11	0.47	17.40	>10000	515.00	
22.25	25.30	3.05	0.67	22	H247187	2.5	11	0.91	18.95	>10000	475.00	
25.30	26.82	1.52	0.28	18	H247188	1.0	11	0.97	26.30	>10000	375.00	
26.82	28.35	1.53	0.24	16	H247189	1.0	11	5.37	9.36	>10000	216.00	
28.35	31.39	3.04	1.27	42	H247190	5.0	11	4.72	15.60	>10000	758.00	
31.39	32.92	1.53	1.14	75	H247191	3.0	11	6.58	9.50	9710	1145.00	
32.92	35.96	3.04	2.03	67	H247192	9.0	11	15.25	5.79	>10000	1665.00	
35.96	39.01	3.05	1.11	36	H247193	4.0	11	10.60	6.72	>10000	1420.00	
39.01	42.06	3.05	1.20	39	H247194	8.5	11	1.86	6.21	>10000	498.00	
42.06	45.11	3.05	1.04	34	H247196	3.0	11	3.63	18.60	>10000	602.00	
45.11	46.63	1.52	0.44	29	H247197	3.0	11	1.22	22.30	6430	304.00	
46.63	48.16	1.53	0.26	17	H247198	1.0	11	0.90	8.64	6410	129.00	
49.63	51.21	1.58	0.15	9	H247199	0.3	11	2.40	11.55	>10000	713.00	
51.21	54.25	3.04	0.95	31	H247204	3.0	12	0.23	1.10	1060	13.55	
54.25	55.78	1.53	0.57	37	H247205	1.5	12	0.03	0.54	444	2.15	
55.78	58.00	2.22	1.03	46	H247206	3.0	12	0.04	0.64	208	7.52	
58.00	60.35	2.35	1.13	48	H247207	3.0	12	3.71	27.80	>10000	680.00	
60.35	63.40	3.05	3.05	100	H247208	11.0	12	1.40	2.92	2230	185.00	
63.40	66.45	3.05	2.77	91	H247210	10.0	12	2.20	0.39	>10000	365.00	
66.45	67.97	1.52	1.45	95	H247211	6.0	12	0.20	0.15	3230	719.00	
67.97	70.75	2.78	2.50	90	H247212	10.0	12	3.07	0.16	>10000	228.00	
70.75	72.54	1.79	1.79	100	H247214	7.0	12	0.04	0.09	752	5.91	
72.54	75.59	3.05	2.83	93	H247215	11.0	12	0.01	0.12	365	1.56	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
75.59	78.64	3.05	2.01	66	H247216	6.0	12	0.10	1.68	1240	12.85	no recovery 78.64 - 80.16 m
80.16	83.21	3.05	2.38	78	H247217	8.5	12	0.01	0.19	109	1.27	
83.21	86.26	3.05	3.05	100	H247218	13.0	12	0.01	0.48	209	5.21	
86.26	89.31	3.05	2.27	74	H247219	9.0	12	0.04	0.71	4530	4.50	
13.11	14.63	1.52	0.50	33	H247180	1.0	11	0.01	0.14	98	1.38	Duplicate
-	-	-			H247183	0.3	11	5.48	0.24	>10000	469.00	Standard R-3
-	-	-			H247185	4.0	11	<0.01	0.07	33	1.44	Blank
-	-	-			H247195	0.3	11	1.55	1.75	>10000	345.00	Standard R-2
60.35	63.40	3.05	3.05	100	H247209	5.0	12	0.63	4.09	3690	145.00	Duplicate
-	-	-			H247213	4.0	12	<0.01	0.02	23	1.23	Blank
-	-	-			H247220	4.0	12	0.03	0.01	28	0.12	Blank

DENSITY LOG

HOLE: Rau-09-27

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
63.40	DOL	ALT		15.0	6.1	1061.8	667.9	2.41	2.70
67.79	DOL	ALT		11.0	6.1	833.4	522.9	2.58	2.68
70.97	LST	ALT		9.0	6.1	741.0	467.7	2.80	2.71
83.97	LST	ALT		13.0	6.1	949.4	611.9	2.48	2.81
87.97	LST	ALT		14.0	6.1	1089.0	698.0	2.64	2.79

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-27

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.00	LST	RBL	0.06	
7.00	LST	RBL	0.06	
10.00	VOL		51.00	
13.00	VOL		0.33	
16.00	VOL		0.11	
17.00	OX	CLY	0.60	
20.00	OX	CLY	1.34	
21.00	OX	CLY	0.72	
22.00	OX	CLY	0.70	
25.00	OX	CLY	1.12	
27.00	OX	CLY	0.90	
29.00	OX	CLY	0.47	
30.00	OX	CLY	1.19	
33.00	OX	CLY	0.36	
34.00	OX	CLY	0.33	
35.00	OX	CLY	1.04	
36.00	OX	CLY	0.21	
39.00	OX	CLY	0.75	
40.00	OX	CLY	0.65	
41.00	OX	CLY	0.28	
42.00	OX	CLY	0.25	
43.00	OX	CLY	0.28	
45.00	OX	CLY	1.02	
47.00	LST	ALT	0.05	
53.00	LST	ALT	0.82	
54.00	LST	ALT	0.08	
55.00	LST	ALT	0.03	
56.00	LST	ALT	0.05	
57.00	LST	ALT	0.13	
58.00	LST	ALT	0.06	
59.00	LST	ALT	1.47	
60.00	LST	ALT	1.41	
61.00	DOL	ALT	0.42	
62.00	DOL	ALT	0.30	
63.00	DOL	ALT	0.13	
64.00	DOL	ALT	0.58	
65.00	DOL	ALT	0.30	
66.00	DOL	ALT	0.31	
67.00	DOL	ALT	0.28	
68.00	DOL	ALT	0.26	
69.00	DOL	ALT	0.31	
70.00	DOL	ALT	0.31	
71.00	LST	ALT	0.03	
72.00	LST	ALT	0.35	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
73.00	LST	ALT	0.05	
74.00	LST	ALT	0.05	
75.00	LST	ALT	0.05	
76.00	LST	ALT	0.11	
77.00	LST	ALT	0.08	
78.00	LST	ALT	0.08	
79.00	LST	ALT	-	
80.00	LST	ALT	-	
81.00	LST	ALT	0.11	
82.00	LST	ALT	0.03	
83.00	LST	ALT	0.05	
84.00	LST	ALT	0.13	
85.00	LST	ALT	0.18	
86.00	LST	ALT	0.05	
87.00	LST	ALT	0.03	
88.00	LST	ALT	0.21	
89.00	LST	ALT	0.30	

BOX LOG

HOLE: Rau-09-27

BOX	FROM (m)	TO (m)
1	3.60	12.55
2	12.55	20.89
3	20.89	31.39
4	31.39	35.78
5	35.78	40.97
6	40.97	51.21
7	51.21	60.35
8	60.35	64.17
9	64.17	68.28
10	68.28	72.97
11	72.97	74.07
12	74.07	80.50
13	80.50	85.11
14	85.11	89.31
	89.31	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-28
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528391.1	7119354	1382	121.92

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-80	compass				

Core size: BTW
Casing depth: 3.05 (m) out

Drilling dates: July 6 - 9, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.60	2.60	OVB	
2.60	69.49	66.89	LST	Fossiliferous
69.49	80.42	10.93	VOL	Clay altered
80.42	88.39	7.97	LST	Clay altered
88.39	96.47	8.08	OX	Clay rich
96.47	121.92	25.45	LST	

SAMPLES

Numbers: H247244-H247272, H247311-H247314
Batches 13, 14, 15, 22
Total: 33
Date sent:
Certificate: VA09072701, VA09073271, VA09073272
VA09076283

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-28

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.60	2.60	OVB																			
2.60	69.49	66.89	LST	FOS	BN	BD	45															Faintly banded fossiliferous medium grey limestone with crinoid stem fragments and coral fragments. Camo-mottled texture occurs locally. Banding occurs between 40-50 deg to CA.
																						2.60-3.30 m: Medium to dark grey mottled/camo textured limestone.
						BD	40															3.30-9.45 m: Ca veinlets cut at 40 deg to CA, although from 5.40-6.20 Ca veins cut at 20 deg as does the bedding.
						VN	40	0														
						VN	20															
						BD	75															9.45-10.89 m: White and grey marble with medium grey banding at 75 deg to CA.
						BD	50															10.89-12.55 m: Medium grey fossiliferous, limestone with crinoid stem fragments. Looks like a slightly more turbulent environment. Faint banding occurs at 50 deg to CA.
						VN	75															12.55-17.45 m: Patchy white and grey limestone. White quartz stockwork veins (?) have flooded the core typically 70-80 deg to CA. Relict coral fragments.
						VN	30															17.45-20.01 m: Massive fossiliferous medium grey limestone with rare Ca veins cutting. Contains large >1cm crinoid stems well preserved both in plan and cross view. Ca veins cut at 30 deg to CA.
					BX								He	m								20.01-29.87Maroon/grey patchy brecciated limestone. Breccia is mosaic style with clean Ca veins cutting angular patchy limestone fragments. The maroon layers are slightly siltier (coarser grained) the colour probably comes from faint hematite alteration. Breccia accounts for 10-15% of the interval. Large 1-3 cm coral mounds occur clearly and are very well preserved.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
					BX	VN	50						He	m								29.87-46.18 m: Very fluid altered medium grey limestone with patches of silty porous hematite altered maroon/grey limestone. Two Ca veins cut the unit at 50 deg to the CA. (3-5 cm thick each).
						BD	20															46.18-69.49 m: Steeply bedded slightly hematite altered limestone with occasional coral fragments which are well preserved and are resistant to any structural events that may have folded the rock in this area.
																						48.00-50.75 m: The core is quite fractured and broken up.
						BD	35															58.80-60.39 m: Tan-pink bleached zone that is slightly more broken up than the surrounding core. It is particularly rubbly from 59.74-60.00 m.
						BD	45															60.39-69.69 m: The limestone has an altered look to it. The banding is still present but is much fainter The core is considerably fractured and rubbly in zones. Siderite alteration occurs along very thin healed fractures running at 10 deg to CA.
69.49	80.42	10.93	VOL	CLY																		Taupe-yellow-tan coloured highly clay altered volcaniclastic, with small 2-3 mm angular rock fragments.
						FR	40															71.02-72.54 m: Dark grey foliated volcaniclastic with orange-brown coating of fractures. Core is brittle and very soft.
																						72.54-74.22 m: Yellow-tan clay altered volcaniclastic with 2-3 mm thin angular platy white-very light grey non-calcareous fragments.
																						74.22-79.25 m: Tan grey clay altered volcaniclastic Appears to be quite a fresh clay. Contains platy, angular, 0.2-1 cm fragments of soft, light grey rock (talc ?). Predominantly clay.
						CN	65															79.25-80.42 m: Yellow-orange clay altered volcaniclastic. Some larger pieces show a platy foliation but it can not be measured. Lower contact is sharp at 65 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
80.42	88.39	7.97	LST	CLY	BX																	Medium grey limestone brecciated by irregular Ca veins. The matrix has orangy-yellow carbonate alteration colouration.
																						80.77-81.57 m: Light orange-brown clay altered limestone. Fizzes considerably with acid. Clay has a gritty texture with minor angular, medium grey, soft rock fragments 3-5 mm in diameter.
						BD	65															81.57-88.39 m: Intermixed medium grey thinly banded limestone with 5-10 cm medium orange-brown gritty clay zones. Clay zones fizz considerably with acid and are gritty with angular fragments and crystals of limestone and calcite. The limestone is thinly banded at 65 deg to CA.
																						33.20-33.39 m: Quartz-calcite vein. The limestone surrounding this vein is quite carbonate altered and brecciated.
88.39	96.47	8.08	OX	CLY																		Deep red-brown oxide zone. Mostly very fine oxide clay mixed with gritty limonite fragments. Quite good recovery. Occasional medium to coarse grained quartz crystals.
																						91.44-94.49 m: Much more quartz rich oxide zone. The oxide is limonite rich as opposed to clay rich. Very rubbly with larger limonite fragments. The colour of the oxide is medium brown (less red-rust coloured than above).
																						94.49-100.43 m: Less quartz rich oxide zone. Slightly more rusty red-orange-brown in colour. Mostly clay with some rough limonite fragments.
96.47	107.29	10.82	LST	ALT																		Intensely carbonate and clay altered limestone. The clay is a light orange-tan-brown colour and fizzes strongly with acid. Occasional small <5 mm angular quartz fragments occur within.
				CLY																		
						BD	60															100.43-103.94 m: Very altered looking banded limestone. Has a green/orange altered colour. Anchorite altered Ca veins cut the limestone at 35 deg to CA.
						VN	35	340														

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						103.94-107.29 m: Dark red/brown carbonate and clay altered limestone. Clay slightly to strongly fizzes with acid. The carbonate altered fragments do not. Minor ~1 cm sub-angular quartz fragments occur within.
107.29	115.78	8.49	LST	ALT	BX	VN	15						SID	f								Moderately siderite altered limestone The siderite occurs pervasive along healed fractured. Overall the unit is very fractured and broken up. Ca-siderite veins run at ~15 deg to CA. Trace grains of pyrite occur in the more broken up areas. The limestone has a very fluid collapse brecciated texture.
115.78	121.92	6.14	LST		BX							w			w							Dark grey coarsely mosaic brecciated limestone. Clasts are < cm to 10 cm and angular. The matrix is very coarse grained calcite. Weak, fine grained oxidized pyrite cubes occur scattered throughout.
																						121.92 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-28

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.05	3.05	0.13	4	0.00	0	MS	FR	
3.05	3.96	0.91	0.21	23	0.00	0	MS	FR	
3.96	4.27	0.31	0.31	100	0.31	100	MS	FR	
4.27	4.57	0.30	0.16	53	0.00	0	MS	FR	
4.57	5.18	0.61	0.59	97	0.00	0	MS	FR	
5.18	6.40	1.22	1.02	84	0.13	11	MS	FR	
6.40	7.92	1.52	1.52	100	0.54	36	MS	FR	
7.92	8.69	0.77	0.77	100	0.40	52	MS	FR	
8.69	8.84	0.15	0.15	100	0.00	0	MS	FR	
8.84	9.30	0.46	0.30	65	0.00	0	MS	FR	
9.30	10.06	0.76	0.76	100	0.43	57	MS	FR	
10.06	12.19	2.13	2.00	94	1.16	54	MS	FR	
12.19	14.02	1.83	1.63	89	0.63	34	MS	FR	
14.02	14.63	0.61	0.61	100	0.35	57	MS	FR	
14.63	16.00	1.37	1.12	82	0.56	41	MS	FR	
16.00	19.05	3.05	3.02	99	2.14	70	MS	FR	
19.05	21.03	1.98	1.81	91	1.10	56	MS	FR	
21.03	23.77	2.74	1.80	66	0.10	4	MS	FR	
23.77	25.60	1.83	1.24	68	0.58	32	MS	FR	
25.60	27.43	1.83	1.45	79	0.33	18	MS	FR	
27.43	27.89	0.46	0.46	100	0.11	24	MS	FR	
27.89	28.65	0.76	0.37	49	0.00	0	MS	FR	
28.65	29.87	1.22	0.53	43	0.10	8	MS	FR	
29.87	31.70	1.83	1.63	89	0.45	25	MS	FR	
31.70	33.83	2.13	1.19	56	0.60	28	MS	FR	
33.83	36.27	2.44	1.73	71	0.67	27	MS	FR	
36.27	39.01	2.74	1.74	64	0.66	24	MS	FR	
39.01	41.15	2.14	1.83	86	0.98	46	MS	FR	
41.15	44.20	3.05	2.92	96	2.46	81	MS	FR	
44.20	45.42	1.22	1.22	100	0.17	14	MS	FR	
45.42	46.18	0.76	0.75	99	0.14	18	MS	FR	
46.18	48.01	1.83	1.82	99	0.27	15	MS	FR	
48.01	48.92	0.91	0.83	91	0.00	0	MS	FR	
48.92	51.21	2.29	2.29	100	0.61	27	MS	FR	
51.21	52.43	1.22	1.22	100	0.52	43	MS	FR	
52.43	55.47	3.04	2.28	75	0.64	21	MS	SW	
55.47	56.24	0.77	0.74	96	0.11	14	MS	SW	
56.24	57.91	1.67	0.29	17	0.25	15	MS	SW	
57.91	59.74	1.83	0.97	53	0.20	11	MS	SW	
59.74	60.50	0.76	0.65	86	0.00	0	MS	SW	
60.50	61.42	0.92	0.57	62	0.16	17	MS	SW	
61.42	62.79	1.37	1.23	90	0.30	22	MS	SW	
62.79	63.55	0.76	0.46	61	0.00	0	MS	SW	
63.55	64.92	1.37	0.90	66	0.00	0	MS	SW	
64.92	65.84	0.92	0.55	60	0.18	20	MS	SW	
65.84	66.29	0.45	0.40	89	0.00	0	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
66.29	66.75	0.46	0.46	100	0.00	0	MS	SW	
66.75	67.06	0.31	0.17	55	0.00	0	MS	SW	
67.06	67.21	0.15	0.15	100	0.00	0	MS	SW	
67.21	67.97	0.76	0.53	70	0.00	0	MS	SW	
67.97	69.49	1.52	0.32	21	0.12	8	MS	SW	
69.49	71.02	1.53	0.38	25	0.00	0	VW	HW	
71.02	71.48	0.46	0.00	0	0.00	0			
71.48	71.78	0.30	0.22	73	0.00	0	W	HW	
71.78	72.09	0.31	0.31	100	0.00	0	W	HW	
72.09	72.54	0.45	0.00	0	0.00	0			
72.54	73.61	1.07	0.32	30	0.00	0	VW	HW	
73.61	73.91	0.30	0.00	0	0.00	0			
73.91	74.22	0.31	0.29	94	0.00	0	EW	EW	
74.22	74.52	0.30	0.20	67	0.00	0	EW	EW	
74.52	75.29	0.77	0.52	68	0.00	0	EW	EW	
75.29	75.90	0.61	0.00	0	0.00	0			
75.90	76.50	0.60	0.28	47	0.00	0	EW	EW	
76.50	76.81	0.31	0.00	0	0.00	0			
76.81	77.72	0.91	0.44	48	0.00	0	EW	EW	
77.72	78.33	0.61	0.09	15	0.00	0	EW	EW	
78.33	79.25	0.92	0.29	32	0.00	0	EW	EW	
79.25	79.86	0.61	0.25	41	0.00	0	EW	EW	
79.86	80.16	0.30	0.20	67	0.00	0	EW	EW	
80.16	80.77	0.61	0.58	95	0.32	52	VW	HW	
80.77	81.53	0.76	0.54	71	0.00	0	EW	EW	
81.53	81.99	0.46	0.46	100	0.00	0	MS	SW	
81.99	82.14	0.15	0.11	73	0.00	0	MS	SW	
82.14	82.75	0.61	0.54	89	0.18	30	MS	SW	
82.75	83.52	0.77	0.46	60	0.11	14	MS	SW	
83.52	84.43	0.91	0.58	64	0.23	25	MS	SW	
84.43	84.89	0.46	0.35	76	0.13	28	MS	SW	
84.89	85.34	0.45	0.35	78	0.10	22	MS	SW	
85.34	85.80	0.46	0.25	54	0.00	0	MS	SW	
85.80	86.87	1.07	0.92	86	0.13	12	MS	SW	
86.87	88.39	1.52	0.73	48	0.39	26	EW	EW	
88.39	89.92	1.53	1.53	100	0.00	0	EW	EW	
89.92	91.44	1.52	1.45	95	0.00	0	EW	EW	
91.44	92.05	0.61	0.42	69	0.00	0	EW	EW	
92.05	92.96	0.91	0.80	88	0.00	0	EW	EW	
92.96	93.12	0.16	0.08	50	0.00	0	EW	EW	
93.12	93.57	0.45	0.18	40	0.00	0	EW	EW	
93.57	94.03	0.46	0.42	91	0.00	0	EW	EW	
94.03	94.49	0.46	0.38	83	0.00	0	EW	EW	
94.49	95.40	0.91	0.91	100	0.00	0	EW	EW	
95.40	96.01	0.61	0.38	62	0.00	0	EW	EW	
96.01	96.93	0.92	0.92	100	0.00	0	EW	EW	
96.93	98.30	1.37	0.90	66	0.43	31	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
98.30	99.52	1.22	0.70	57	0.00	0	EW	EW	
99.52	100.43	0.91	0.80	88	0.00	0	EW	EW	
100.43	102.11	1.68	1.57	93	0.59	35	VW	HW	
102.11	103.94	1.83	0.95	52	1.10	60	VW	HW	
103.94	105.16	1.22	0.40	33	0.00	0	EW	EW	
105.16	106.07	0.91	0.35	38	0.00	0	EW	EW	
106.07	107.29	1.22	0.14	11	0.00	0	EW	EW	
107.29	109.42	2.13	0.73	34	0.93	44	W	MW	
109.42	110.34	0.92	0.92	100	0.10	11	W	MW	
110.34	110.95	0.61	0.25	41	0.00	0	W	MW	
110.95	112.01	1.06	0.76	72	0.00	0	W	MW	
112.01	114.30	2.29	2.13	93	1.03	45	W	MW	
114.30	116.13	1.83	1.83	100	0.89	49	W	MW	
116.13	118.87	2.74	2.51	92	1.83	67	W	MW	
118.87	121.92	3.05	3.05	100	2.30	75	W	MW	
	121.92	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-28

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
66.29	69.49	3.20	1.90	59	H247244	3.0	13	<0.01	0.06	49	0.25	
69.49	71.02	1.53	0.42	27	H247245	1.0	13	<0.01	0.08	403	0.66	
71.48	72.09	0.61	0.57	93	H247246	1.0	13	0.01	<0.01	225	0.21	No recovery 72.09 - 72.54 m
72.54	73.61	1.07	0.35	33	H247248	0.5	13	0.02	0.09	141	1.81	
73.61	75.29	1.68	0.94	56	H247249	1.5	13	<0.01	<0.01	448	0.80	
75.90	76.50	0.60	0.31	52	H247250	0.5	13	<0.01	<0.01	429	0.12	
76.81	79.25	2.44	0.80	33	H247251	1.0	13	<0.01	<0.01	526	0.14	
79.25	80.42	1.17	0.70	60	H247252	1.0	13	0.01	1.24	1805	0.13	
80.42	81.57	1.15	0.92	80	H247253	1.5	13	0.02	0.51	874	0.13	
81.57	84.43	2.86	2.10	73	H247254	3.0	13	0.03	0.24	615	0.24	
84.43	85.80	1.37	0.98	72	H247255	1.5	13	0.05	0.19	259	0.69	
85.80	88.39	2.59	1.65	64	H247256	3.0	13	0.06	0.95	496	1.05	
88.39	91.44	3.05	2.95	97	H247257	5.0	13	2.19	1.19	>10000	369.00	
91.44	94.49	3.05	2.02	66	H247258	3.5	13	0.84	1.70	>10000	357.00	
94.49	95.40	0.91	0.91	100	H247259	1.5	13	5.41	0.99	>10000	694.00	
95.40	96.01	0.61	0.61	100	H248733	0.5	22	1.29	0.56	>10000	839.00	
96.01	96.47	0.46	0.46	100	H247260	0.5	13	2.43	0.49	>10000	70.50	
96.47	98.30	1.83	1.42	78	H247262	2.0	13	0.39	0.21	>10000	35.40	
98.30	100.43	2.13	1.55	73	H247263	2.0	13	3.33	0.42	>10000	245.00	
100.43	102.11	1.68	1.57	93	H247264	2.0	13	0.64	0.26	5680	44.10	
102.11	103.94	1.83	1.83	100	H247266	3.0	13	0.12	0.19	2960	6.01	
103.94	106.07	2.13	0.85	40	H247267	1.5	13	1.80	1.55	>10000	226.00	
106.07	107.29	1.22	0.13	11	H247268	0.5	13	0.75	6.16	>10000	47.00	
107.29	110.34	3.05	1.81	59	H247269	3.0	13	0.15	0.14	2050	10.45	
110.34	112.01	1.67	1.03	62	H247270	2.0	13	0.19	0.20	2800	18.80	
112.01	114.30	2.29	2.16	94	H247272	3.5	14	0.14	0.19	1350	8.48	
114.30	116.13	1.83	1.76	96	H247311	2.0	15	0.17	0.08	2130	17.35	
116.13	118.87	2.74	2.26	82	H247313	4.0	15	0.16	0.08	2360	9.44	
118.87	121.92	3.05	3.02	99	H247314	5.0	15	0.09	0.05	661	3.28	
-	-	-			H247247	0.3	13	1.56	1.70	>10000	339.00	Standard R-2

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H247261	4.0	13	<0.01	0.01	6	0.14	Blank
-	-	-			H247265	0.3	13	0.57	0.76	5780	91.00	Standard R-1
110.34	112.01	1.67	1.03	62	H247271	1.0	13	0.22	0.31	3250	31.40	Duplicate
114.30	116.13	1.83	1.76	96	H247312	1.0	15	0.18	0.09	3070	31.30	Duplicate

DENSITY LOG

HOLE: Rau-09-28

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
9.78	LST	FOS		13.0	4.2	518.3	325.2	2.88	2.68
14.44	LST	FOS		10.0	4.2	419.3	262.1	3.03	2.67
20.00	LST	FOS		12.0	4.2	473.5	297.3	2.85	2.69
43.00	LST	FOS		11.0	4.2	411.6	256.6	2.70	2.66
66.40	LST	FOS		8.5	4.2	315.4	195.3	2.68	2.63
85.95	LST	CLY		8.5	4.2	333.1	210.9	2.83	2.73
103.55	LST	ALT		10.0	4.2	389.1	231.0	2.81	2.46

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-28

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3	LST	FOS	0.02	
4	LST	FOS	0.04	
5	LST	FOS	0.00	
6	LST	FOS	0.02	
7	LST	FOS	0.02	
8	LST	FOS	0.00	
9	LST	FOS	0.00	
10	LST	FOS	0.02	
11	LST	FOS	0.00	
12	LST	FOS	0.10	
13	LST	FOS	0.00	
14	LST	FOS	0.00	
15	LST	FOS	0.02	
16	LST	FOS	0.00	
17	LST	FOS	0.00	
18	LST	FOS	0.02	
19	LST	FOS	0.00	
20	LST	FOS	0.02	
21	LST	FOS	0.00	
22	LST	FOS	0.02	
23	LST	FOS	0.02	
24	LST	FOS	0.04	
25	LST	FOS	0.02	
26	LST	FOS	0.00	
27	LST	FOS	0.02	
28	LST	FOS	0.02	
29	LST	FOS	0.04	
30	LST	FOS	0.06	
31	LST	FOS	0.06	
32	LST	FOS	0.12	
33	LST	FOS	0.02	
34	LST	FOS	0.02	
35	LST	FOS	0.02	
36	LST	FOS	0.02	
37	LST	FOS	0.02	
38	LST	FOS	0.04	
39	LST	FOS	0.00	
40	LST	FOS	0.00	
41	LST	FOS	0.02	
42	LST	FOS	0.02	
43	LST	FOS	0.04	
44	LST	FOS	0.02	
45	LST	FOS	0.04	
46	LST	FOS	0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47	LST	FOS	0.04	
48	LST	FOS	0.02	
49	LST	FOS	0.18	
50	LST	FOS	0.02	
51	LST	FOS	0.04	
52	LST	FOS	0.12	
53	LST	FOS	0.14	
54	LST	FOS	0.02	
55	LST	FOS	0.08	
56	LST	FOS	0.04	
57	LST	FOS	0.02	
58	LST	FOS	0.02	
59	LST	FOS	0.04	
60	LST	FOS	0.04	
61	LST	FOS	0.02	
62	LST	FOS	0.02	
63	LST	FOS	0.02	
64	LST	FOS	0.06	
65	LST	FOS	0.02	
66	LST	FOS	0.00	
67	LST	FOS	0.00	
68	LST	FOS	0.08	
69	LST	FOS	0.02	
70	VOL	CLY	0.49	
71	VOL	CLY	0.24	
72	VOL	CLY	0.49	
73	VOL	CLY	0.24	
74	VOL	CLY	0.92	
75	VOL	CLY	0.43	
76	VOL	CLY	0.43	
77	VOL	CLY	1.43	
78	VOL	CLY	0.65	
79	VOL	CLY	0.94	
80	VOL	CLY	0.16	
81	LST	CLY	0.06	
82	LST	CLY	0.00	
83	LST	CLY	0.08	
84	LST	CLY	0.00	
85	LST	CLY	0.00	
86	LST	CLY	0.02	
87	LST	CLY	0.08	
88	LST	CLY	0.12	
89	OX	CLY	0.20	
90	OX	CLY	1.14	
91	OX	CLY	0.57	
92	OX	CLY	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93	OX	CLY	0.86	
94	OX	CLY	0.02	
95	OX	CLY	0.41	
96	OX	CLY	0.32	
97	LST	ALT	0.38	
98	LST	ALT	0.12	
99	LST	ALT	0.18	
100	LST	ALT	0.59	
101	LST	ALT	0.08	
102	LST	ALT	0.14	
103	LST	ALT	0.08	
104	LST	ALT	0.08	
105	LST	ALT	0.24	
106	LST	ALT	0.92	
107	LST	ALT	1.14	
108	LST	ALT	0.08	
109	LST	ALT	0.02	
110	LST	ALT	0.06	
111	LST	ALT	0.20	
112	LST	ALT	0.12	
113	LST	ALT	0.20	
114	LST	ALT	0.18	
115	LST	ALT	0.10	
116	LST		0.08	
117	LST		0.10	
118	LST		0.08	
119	LST		0.10	
120	LST		0.26	
121	LST		0.38	

BOX LOG

HOLE: Rau-09-28

BOX	FROM (m)	TO (m)
1	2.60	6.77
2	6.77	11.36
3	11.36	16.71
4	16.71	22.97
5	22.97	29.87
6	29.87	36.17
7	36.17	42.80
8	42.80	48.01
9	48.01	53.05
10	53.05	59.93
11	59.93	65.84
12	65.84	74.22
13	74.22	82.40
14	82.40	89.18
15	89.18	94.87
16	94.87	100.78
17	100.78	108.90
18	108.90	114.30
19	114.30	119.68
20	119.68	121.92
	121.92	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-29
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528237	7119221	1351	103.63

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-55	compass				

Core size: HQ
Casing depth: 4.54 (m) out

Drilling dates: July 6 - 8, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.55	2.55	OVB	
2.55	14.63	12.08	LST	
14.63	16.02	1.39	VN	Calcite
16.02	19.39	3.37	LST	
19.39	20.28	0.89	LST	Oxidized
20.28	21.75	1.47	LST	Fossiliferous
21.75	23.97	2.22	LST	Altered
23.97	26.12	2.15	OX	Rubbly
26.12	81.33	55.21	LST	
81.33	81.50	0.17	FLT	Clay rich
81.50	96.93	15.43	LST	Fossiliferous
96.93	117.82	20.89	DOL	Altered
117.82	120.00	2.18	LST	Altered
120.00	123.40	3.40	MBL	
123.40	142.35	18.95	LST	Fossiliferous
142.35	144.85	2.50	VOL	Altered
144.85	147.50	2.65	DOL	Altered
147.50	150.27	2.77	VOL	Altered
150.27	154.84	4.57	LST	Altered
154.84	459.41	304.57	MBL	Altered

SAMPLES

Numbers: H247222-H247243, H247273-H247310
Batches 12, 13, 14 & 15
Total: 60
Date sent:
Certificate: VA09072702, VA09072701, VA09073271
VA09073272

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-29

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.55	2.55	OVB																			
2.55	23.97	21.42	LST	FOS	BN	BD	40															Medium grey thinly bedded fossiliferous limestone. Crinoid stem fragments 0.2-0.4 cm in diameter as well as large coral fragments 1-3 cm in size. All of these fossils look well preserved (not broken). Thin orange-brown layers 1-6 mm wide occur concordan to bedding as well as cutting it in small parasitic folds. (fracture fill???)
				ALT																		
						BD	45															7.01-11.30 m: Medium to dark grey, very thinly bedded limestone with rare coral and crinoid fragments. Pyrite and pyrrhotite occur as very fine grained patches dispersed throughout. Dark grey 1-3 mm elongate spots dot the unit and enhance the banding orientation. Very thin <1-2 mm Ca veinlets occur concordant to bedding.
						VN	45	0														10.36-10.49 m: Ca vein occurs at 30 deg to CA. On the edges of the vein, an inclusion of limestone has become enclosed within the vein. A 5-10 cm bleached halo occurs on either side of the vein.
						BD	50					m			w							11.30-14.63 m: Medium grey limestone with an orangy-green carbonate alteration tinge. Thin beds occur at 50 deg to CA. Small crinoid and coral fragments are scattered throughout, but are particularly concentrated from 13.64-14.05 m. Thin <1-2 mm oxidized Ca veinlets occur concordant to banding. Small oxidized cubes of pyrite occur scattered throughout.
						VN	50	0														
			CA	RBL	VN																	14.63-16.02 m: Strongly carbonate altered very rubbly, coarse grained calcite vein with vugs up to 1 cm deep. Has a mottled pink-white-grey colour.
				ALT																		

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	45					m			w							16.02-19.39 m: Medium grey, fossiliferous, very faintly banded limestone, with swirly 0.2-2 cm wide porous (almost clay) orange-brown carbonate altered bands. Medium grained Ca veins irregularly cut unit. In a few cases open cavity Ca fill has occurred leaving some vugs in the veins.
															w							17.77-18.20 m: Fine crackle textured Ca veinlets cut the core in numerous directions. All of these are ~ 2 mm thick and strongly altered. Fine grained cubes of pyrite occur in a scattered throughout.
						VN	40															19.39-20.28Intensely altered limestone zone. More rubbly than unit surrounding it. Some of the fractured surfaces have orange-brown clay coatings on them. Fragments appear to be extremely fossiliferous. Ca vein cuts at 40 deg to CA.
						VN	70					f			t							20.28-21.75 m: Medium grey very fossiliferous limestone 1-2 mm crinoid stem fragments are quite concentrated (5%). Very thin <1mm Ca crackle veinlets which have been quite strongly carbonate altered. Occasional oxidized Py cubes.
						VN	60					m	He	s								21.75-23.97 m: Medium grey fossiliferous limestone with moderately strong pink-red hematite overprint. Ca veins cut at 60 deg to CA. Thin < 1mm dark grey bands occur at 50 deg to CA. Might represent fracture fill rather than bedding. In general most textures and structures are obscured by the hematite overprint and the alteration.
						BD	60															
																						23.11-23.35 m: Rubbly medium to dark orange-brown interval.
23.97	26.12	2.15	OX	RBL									LIM	I								Extremely rubbly limonite zone. Fragments are in general 1-2 cm in size, but fine grained gritty zones also occur. The limonite fragments show some coarse grained crystal faces.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
26.12	49.52	23.40	LST	FOS	BN	BD	30															Extremely fossiliferous medium grey limestone with obvious signs of banding. Most of the fossils are crinoid stem fragments (including star crinoids) which are very well preserved.
				ALT		VN	30															Light orange-brown carbonate alteration and or bleaching surrounds thin irregular veins. The most common vein orientation is 30 deg to CA. Later Ca veins cut these altered zones at 5 deg to CA.
						VN	5															
					BN	BD	30	90			f											33.95-49.52 m: Start to get marbleisation of the limestone. All textures and structures are becoming more faint, the core is harder. The contact into and out of this zone is gradual (over 0.5-1 m). Relict bedding is 30 deg to CA.
													Sid	f								40.00-40.29 m: Dark orange-brown siderite vein. Somewhat rubbly but still rather competent
																						48.76-49.10 m: Thin 2-3 mm siderite altered Ca stringer veinlets run at 15 deg to CA.
49.52	86.12	36.60	LST	ALT	FO	FO	25						Sid	w	w							Dark grey moderately fossiliferous limestone with carbonate altered light green-orange brown beds that appear to be slightly siltier in texture. (Some characteristic of these beds allowed them to be preferentially altered.) Crinoid stem fragments occur rarely and are most commonly well preserved. Oxidized pyrite cubes are disseminated throughout (1-3%). There appears to be a foliation at 25 deg to CA. There is slight deformation of bands around the crinoid stems, suggesting some sort of structural deformation.
						FO	15								t							58.23-64.00 m: Thin <1 mm carbonate altered and non altered Ca stringer veinlets cut the foliation at 6 deg to the CA. Often see a thin 2-3 mm tan-bleached halo in the limestone surrounding these veinlets. Late stage patchy pyrite is associated with a Ca patches- trace overall. Area of high strain. In this zone the crinoids are beginning to show signs of deformation. Foliation occurs at 15 deg to CA

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	60	240														
						VN	60	80														Two fold noses occur; one at 60.45 m, the second at 60.60 m.
						BD	50	280														60.75-61.45 m: A zone of coarse grained Ca veins 2-6 cm in width. The foliation of the limestone that is cut in this zone follows the orientation of the veins at 60 deg; but based on the foliation of the peripher limestone, an angle to foliation can be determined. Possible bedding angle is 50 deg to CA. The angle from the foliation to the bedding is roughly 28 deg t CA. Pyrite (non-oxidized) occurs as trace patches scattered within this unit.
						FO	30															64.00-81.33 m: Foliated faintly bedded fossiliferous limestone with Ca veins cutting the unit. Bedding is represented by thin zones 2-3 cm wide of non-fossiliferous limestone. These have quite sharp contacts between the beds. This distinct bedding only occurs in a few places in the interval.
						BD	55	40														
						VN	40	180														
			FLT	CLY		CN	60															81.33-81.50 m: Tope-grey very clean clay gouge. I looks as though it could be used for pottery. Contains no rock fragments. Upper contact is sharp at 60 deg to CA.
						FO	45															81.50-86.12 m: Dark grey fossiliferous limestone with fewer fossils compared to the units above. Ca veins cut at 25 deg to Ca and occur at 90 deg to the foliation.
						VN	23	90														
86.12	94.63	8.51	LST	ALT	CR	VN	23					w	Sid	w	t							Intensely crackle brecciated limestone with slight siderite alteration associated with cutting Ca veins slight oxidation of trace pyrite fine grained cubes. Ca veins cut the brecciation at 25 deg to CA. The unit becomes increasingly dolomitized with depth.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	50		ms						w	t						89.00-94.63 m: Moderately strong dolomitized and slightly crackle brecciated fossiliferous limestone. Very few crinoid stems occur. Weak pyrite occurs as fine grained disseminations. Trace arsenopyrite also occurs as traces disseminations. Minor medium grained quartz occurs at 92 m.
																						89.15-89.41 m: Coarse grained dolomite zone occurs with a pink rhodochrosite alteration
																						94.15-94.63 m: A zone of light pink-orange rhodochrosite alteration of coarse grained dolomite.
94.63	96.93	2.30	LST	ALT		FR	30					ms										Intense oxidation of a dolomitized limestone. Contains medium grained sub-to anhedral patches of both pyrite and arsenopyrite. Both of these minerals show quite strong oxidation. The sulphides appear to occur surrounding highly altered fractures. Sections of the interval are quite rubbly with minor clay zones. Both upper and lower contacts show a gradual change into the less altered dolomite and limestone.
96.93	117.82	20.89	DOL	ALT		FR	5						Sid	ms	w							Coarse grained dolomite with quite strong orange brown siderite alteration concentrated in filled fractures. Fractures occur at 5 deg to CA. Parts of the core that are particularly altered are slightly vuggy and slightly rubble. Oxidized pyrite cubes are fine grained and weakly scattered throughout.
						FR	10					w	Sid	m	w	t						101.00-109.55 m: Less siderite altered coarse grained dolomite. Light grey in colour. Fractures are still coated in siderite which is dark brown in colour. Fractures occur at low angles to CA. Slightly oxidized pyrite occurs as small to medium grained subhedral cubes. Arsenopyrite also occurs but in a lower concentration.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	50								f	w						105.72-105.92 m: Increase in Py and Asp concentration. This core has a yellowy orange oxidized stain to it. Thin Ca veins also cut the dolomite at 50 deg to CA.
													Sid	ms								109.55-117.82 m: Dramatic increase in the siderite alteration of the coarse grained dolomite. Medium grained pyrite cubes which are strongly oxidized are weakly scattered but appear concentrated in the more altered zones. The core has an increase of crackle fractures at 110.70 m. Very strongly altered zones are generally 10-15 cm wide and slightly rubbly. Blood red hematite dills some fractures as well as forms small patches in some zones in the dolomite.
													He	w								
																						112.17-113.05 m: Zone of brecciated dolomite. The clasts are subrounded and the breccia is farthe crackled with thin siderite fracture gills.
																						114.00 m: There is a gradual change from coarse grained dolomite to dolomitized limestone.
117.82	120.00	2.18	LST	ALT	CR	CN	15		s				Sid	f								Medium grey strongly dolomitized limestone with zones of very vuggy siderite veins (?) First 75 cm o the interval is intensely altered dark brown-almost black. The limestone after this is quite vuggy. Lower contact is very sharp between vuggy siderite and marble.
120.00	123.40	3.40	MBL			BD	25															White marble with light grey thin impure layers at 25 deg to CA.
																						121.78 m: thin hematite filled fracture.
																						122.00-122.30 m: The marble contains 0.7 cm subhedral quartz crystals ~ 10%.
123.40	142.35	18.95	LST	ALT	BN	BD	70			w			Sid	w								Medium grey banded limestone with trace crinoid stem fragments. Green-yellow sericite alteration bands occur concordant to bedding. Siderite with minor hematite alteration occurs along a fracture at 126.15-126.35 m.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
				FOS									He	t								
									ms				Sid	m								126.40-133.70 m: Transition into dolomitized limestone with thin siderite filled fractures. Rubbly +/- vuggy dark red-brown siderite veins occur at 130 130.45 m, 132.55-133.70 m.
													He	w								
									ms				Sid	w								133.70-139.32 m: Medium grey dolomitized fluid brecciated limestone. Some fractures are filled with hematized siderite. Very occasional, small star crinoids occur- trace.
													He	w								
						BD	55		ms			w	Sid	I								139.32-142.35 m: Very strongly hematite siderite altered dolomitized limestone. Weak oxidation of relict pyrite occurs on some fractured surfaces. Siderite banding occurs at 55 deg to CA.
													He	s								
142.35	144.85	2.50	VOL	ALT	FO	FO	60															Intensely siderite altered volcaniclastic. Medium orange-red-brown quite soft, but not broken up. Contains altered fragments of limestone.
144.85	147.50	2.65	DOL	ALT	CR							f	Sid	ms	w							Very coarse grained dolomite with hematitic siderite filling cracks. Weak medium grained pyrite occurs within the dolomite. Often has a yellow-orange limonitic alteration on fractures associated with pyrite localization.
													He	ms								
147.50	150.27	2.77	VOL	ALT	BN	BD																Light cream yellow-brown altered volcaniclastic. Contains small siderite altered rock fragments. FAULT?? Very soft- but not quite clay.
						BD	40					w	Sid	s	t							148.90-150.27 m: Banded looking dark red-brown sericite veins cut the volcaniclastic. Trace oxidation occurs to relict pyrite.
150.27	154.84	4.57	LST	ALT		FO	65						Sid	I								Intensely siderite altered limestone, dark red-brown in colour with some patches of relict calcite. Fizzes moderately with acid. Foliation at 65 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						CN	65															151.79-152.50 m: FAULT? Yellow-orange clay zon possibly a clay altered volcaniclastic layer.
																						Lower contact is 65 deg to CA. At the lower contact the altered limestone is very vuggy.
154.84	159.41	4.57	MBL	ALT																		Light grey marbleised limestone with patchy light cream-green alteration patches (sericite?) And bleached orangy cream zones surrounding fractures.
																						159.41 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-29

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	2.55	2.55	0.00	0	0.00	0			
2.55	3.96	1.41	1.41	100	0.15	11	MS	SW	
3.96	5.49	1.53	1.53	100	1.00	65	MS	SW	
5.49	7.01	1.52	1.46	96	1.00	66	MS	SW	
7.01	8.53	1.52	1.52	100	0.90	59	S	SW	
8.53	10.06	1.53	1.45	95	1.08	71	S	SW	
10.06	11.58	1.52	1.52	100	1.24	82	S	SW	
11.58	13.11	1.53	1.50	98	0.93	61	MS	SW	
13.11	14.63	1.52	1.37	90	0.50	33	MS	SW	
14.63	16.15	1.52	1.21	80	0.28	18	W	MW	
16.15	17.68	1.53	1.53	100	1.11	73	S	SW	
17.68	19.20	1.52	1.09	72	0.96	63	MS	SW	
19.20	20.73	1.53	1.53	100	1.18	77	MS	MW	
20.73	22.25	1.52	1.39	91	0.88	58	MS	SW	
22.25	23.77	1.52	1.52	100	1.16	76	MS	SW	
23.77	25.30	1.53	1.45	95	0.19	12	EW	EW	
25.30	26.82	1.52	1.52	100	0.28	18	EW	EW	
26.82	28.35	1.53	1.06	69	0.21	14	S	MW	
28.35	29.87	1.52	1.23	81	1.06	70	S	SW	
29.87	31.39	1.52	1.52	100	0.82	54	S	SW	
31.39	32.92	1.53	1.30	85	0.90	59	S	SW	
32.92	34.44	1.52	1.52	100	1.38	91	S	SW	
34.44	35.97	1.53	1.53	100	0.95	62	S	SW	
35.97	37.49	1.52	1.52	100	1.47	97	S	SW	
37.49	39.01	1.52	1.52	100	0.82	54	S	SW	
39.01	40.54	1.53	1.46	95	0.47	31	S	SW	
40.54	42.06	1.52	1.41	93	0.95	62	S	SW	
42.06	43.59	1.53	1.17	76	0.76	50	S	SW	
43.59	45.11	1.52	0.93	61	0.60	39	S	SW	
45.11	46.63	1.52	1.52	100	0.79	52	S	SW	
46.63	48.16	1.53	0.90	59	0.15	10	S	SW	
48.16	49.68	1.52	1.52	100	0.49	32	S	SW	
49.68	51.21	1.53	1.53	100	1.53	100	S	FR	
51.21	52.73	1.52	1.47	97	1.45	95	S	FR	
52.73	54.25	1.52	1.50	99	1.50	99	S	FR	
54.25	55.78	1.53	1.53	100	1.47	96	S	FR	
55.78	57.30	1.52	1.52	100	1.46	96	S	FR	
57.30	58.33	1.03	1.03	100	0.90	87	S	FR	
58.33	60.35	2.02	1.43	71	1.43	71	S	FR	
60.35	61.87	1.52	1.52	100	1.34	88	S	FR	
61.87	63.40	1.53	1.53	100	1.53	100	S	FR	
63.40	64.92	1.52	1.46	96	1.46	96	S	FR	
64.92	66.45	1.53	1.53	100	1.50	98	S	FR	
66.45	67.97	1.52	1.45	95	1.37	90	S	FR	
67.97	69.49	1.52	1.52	100	1.47	97	S	FR	
69.49	71.02	1.53	1.45	95	1.28	84	S	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
71.02	72.54	1.52	1.52	100	1.52	100	S	FR	
72.54	74.07	1.53	1.36	89	1.25	82	S	FR	
74.07	75.59	1.52	1.52	100	1.29	85	S	FR	
75.59	77.11	1.52	1.42	93	1.42	93	S	FR	
77.11	78.64	1.53	1.53	100	1.53	100	S	FR	
78.64	80.16	1.52	1.38	91	1.32	87	S	FR	
80.16	81.69	1.53	1.53	100	1.26	82	S	FR	
81.69	83.21	1.52	1.52	100	1.29	85	S	FR	
83.21	84.73	1.52	1.46	96	1.46	96	S	FR	
84.73	86.26	1.53	1.53	100	1.53	100	S	FR	
86.26	87.48	1.22	1.22	100	1.15	94	S	FR	
87.48	89.31	1.83	1.83	100	1.49	81	S	FR	
89.31	90.83	1.52	1.52	100	1.15	76	S	SW	
90.83	92.35	1.52	1.52	100	1.52	100	S	SW	
92.35	93.88	1.53	1.51	99	1.49	97	S	SW	
93.88	95.40	1.52	1.52	100	0.84	55	MS	MW	
95.40	96.93	1.53	1.32	86	0.66	43	MS	HW	
96.93	98.45	1.52	1.52	100	1.46	96	S	SW	
98.45	99.97	1.52	1.52	100	1.23	81	S	SW	
99.97	101.50	1.53	1.50	98	1.45	95	S	SW	
101.50	103.02	1.52	1.44	95	1.19	78	S	SW	
103.02	104.55	1.53	1.53	100	1.45	95	S	SW	
104.55	106.07	1.52	1.49	98	1.49	98	S	SW	
106.07	107.59	1.52	1.52	100	1.52	100	S	SW	
107.59	109.12	1.53	1.53	100	1.40	92	S	SW	
109.12	110.64	1.52	1.48	97	1.12	74	S	SW	
110.64	112.17	1.53	1.31	86	1.08	71	S	MW	
112.17	113.69	1.52	1.52	100	1.37	90	S	SW	
113.69	115.21	1.52	1.52	100	1.34	88	S	SW	
115.21	116.74	1.53	1.53	100	1.08	71	S	SW	
116.74	118.26	1.52	1.21	80	1.21	80	S	SW	
118.26	119.79	1.53	0.70	46	0.28	18	MS	MW	
119.79	121.31	1.52	1.41	93	0.91	60	S	SW	
121.31	122.83	1.52	1.52	100	1.26	83	MS	SW	
122.83	124.36	1.53	1.53	100	1.43	93	MS	SW	
124.36	125.88	1.52	1.36	89	1.21	80	MS	SW	
125.88	127.41	1.53	1.53	100	0.96	63	MS	SW	
127.41	128.93	1.52	1.52	100	1.39	91	MS	SW	
128.93	130.45	1.52	1.52	100	0.84	55	MS	SW	
130.45	131.98	1.53	1.51	99	1.43	93	MS	SW	
131.98	133.50	1.52	1.52	100	1.34	88	MS	MW	
133.50	135.03	1.53	1.29	84	0.99	65	S	SW	
135.03	136.55	1.52	1.52	100	1.48	97	S	SW	
136.55	138.07	1.52	1.52	100	1.44	95	S	SW	
138.07	139.60	1.53	1.53	100	1.16	76	S	MW	
139.60	141.12	1.52	1.30	86	0.69	45	MS	MW	
141.12	142.65	1.53	1.27	83	0.79	52	MS	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
142.65	144.17	1.52	1.44	95	1.00	66	W	MW	
144.17	145.69	1.52	1.52	100	0.60	39	MS	MW	
145.69	147.22	1.53	1.35	88	1.24	81	S	SW	
147.22	148.74	1.52	1.52	100	0.38	25	W	MW	
148.74	150.27	1.53	1.46	95	0.78	51	MS	MW	
150.27	151.79	1.52	1.50	99	1.03	68	W	HW	
151.79	153.31	1.52	1.35	89	0.32	21	W	HW	
153.31	154.84	1.53	1.20	78	1.10	72	S	MW	
154.84	156.36	1.52	1.52	100	1.18	78	S	SW	
156.36	157.89	1.53	1.48	97	1.29	84	S	SW	
157.89	159.41	1.52	1.11	73	0.82	54	S	SW	
	159.41	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-29

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
7.11	10.06	2.95	2.95	100	H247222	13.0	12	0.03	0.17	33	0.09	
10.06	11.30	1.24	1.24	100	H247223	6.0	12	<0.01	0.18	20	0.11	
11.30	13.11	1.81	1.65	91	H247225	7.0	12	0.02	0.23	269	1.46	
13.11	14.63	1.52	1.32	87	H247226	5.0	12	0.01	0.30	220	0.24	
14.63	16.00	1.37	0.93	68	H247227	3.0	12	<0.01	0.28	392	0.08	
16.00	17.68	1.68	1.68	100	H247228	7.0	12	<0.01	0.28	115	0.06	
17.68	19.39	1.71	1.26	74	H247229	5.0	12	0.03	0.37	516	0.24	
19.39	20.28	0.89	0.89	100	H247230	3.0	12	0.17	0.53	1180	0.05	
20.28	21.75	1.47	1.33	90	H247231	5.0	12	0.02	0.38	415	0.03	
21.75	23.97	2.22	2.22	100	H247232	9.0	12	0.05	0.53	346	0.04	
23.97	26.12	2.15	1.82	85	H247234	5.0	12	0.02	1.10	6620	9.35	
26.12	28.35	2.23	1.79	80	H247235	5.0	12	<0.01	0.77	381	0.18	
28.35	31.39	3.04	2.85	94	H247236	11.5	12	0.01	0.09	63	0.02	
31.39	33.95	2.56	2.45	96	H247238	9.5	13	<0.01	0.11	79	0.02	
33.95	37.00	3.05	3.05	100	H247239	13.0	13	<0.01	0.21	64	0.07	
37.00	39.08	2.08	1.82	88	H247240	7.5	13	0.01	0.27	171	0.02	
39.08	42.06	2.98	2.72	91	H247241	11.0	13	<0.01	0.16	1290	3.96	
42.06	45.11	3.05	1.99	65	H247242	8.0	13	0.02	0.12	240	0.31	
45.11	48.16	3.05	2.39	78	H247243	9.0	13	0.01	0.12	288	0.52	
83.21	86.26	3.05	3.05	100	H247273	12.0	14	0.23	0.23	50	17.05	
86.26	89.31	3.05	3.05	100	H247274	12.5	14	0.16	0.09	443	4.46	
89.31	92.35	3.04	2.91	96	H247276	13.0	14	0.13	0.08	411	18.40	
92.35	94.63	2.28	2.24	98	H247277	9.5	14	0.11	0.85	1260	67.70	
94.63	96.93	2.30	2.12	92	H247278	7.0	14	2.34	30.50	>10000	179.00	
96.93	99.97	3.04	3.04	100	H247280	13.0	14	0.07	2.19	2810	37.40	
99.97	101.00	1.03	0.94	91	H247281	3.5	14	0.05	1.12	2310	11.90	
101.00	103.02	2.02	1.80	89	H247282	7.5	14	0.01	0.33	380	16.05	
103.02	106.07	3.05	2.94	96	H247283	13.0	14	0.08	0.33	6290	23.80	
106.07	107.59	1.52	1.52	100	H247284	7.0	14	0.02	0.53	1210	14.90	
107.59	109.55	1.96	1.90	97	H247286	9.0	14	0.02	0.89	1220	23.00	
109.55	112.17	2.62	2.29	87	H247287	9.0	14	4.16	9.72	1210	154.00	
112.17	115.21	3.04	2.95	97	H247288	13.0	14	0.05	4.82	618	93.50	
115.21	117.82	2.61	2.34	90	H247289	9.0	14	0.21	1.23	244	22.20	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
117.82	120.00	2.18	1.40	64	H247290	6.0	14	0.02	1.19	1950	14.95	
120.00	121.30	1.30	1.17	90	H247291	4.0	14	<0.01	0.04	45	0.72	
121.30	123.40	2.10	2.05	98	H247292	8.5	14	<0.01	0.05	37	0.25	
123.40	126.40	3.00	2.82	94	H247293	11.0	14	0.05	0.32	96	4.20	
126.40	128.93	2.53	2.53	100	H247294	11.0	14	0.02	1.07	277	4.04	
128.93	130.45	1.52	1.44	95	H247295	6.0	14	0.02	0.89	2000	3.35	
130.45	132.55	2.10	2.10	100	H247296	8.5	14	0.01	0.64	265	2.24	
132.55	133.70	1.15	1.06	92	H247297	3.5	14	0.31	5.43	5960	14.25	
133.70	136.55	2.85	2.85	100	H247299	12.0	14	0.01	0.52	299	3.48	
136.55	139.32	2.77	2.77	100	H247300	11.5	14	0.02	0.40	209	5.34	
139.32	142.35	3.03	2.40	79	H247301	8.0	14	0.06	0.34	1220	9.94	
142.35	144.85	2.50	2.50	100	H247302	8.0	14	0.77	1.74	7300	34.60	
144.85	147.50	2.65	2.52	95	H247303	9.5	14	0.03	0.53	1180	1.52	
147.50	148.90	1.40	1.39	99	H247304	5.5	14	0.12	2.62	919	7.20	
148.90	150.27	1.37	1.34	98	H247305	4.5	14	0.07	2.80	292	1.41	
150.27	151.50	1.23	1.17	95	H247306	4.0	14	0.02	0.17	450	1.19	
151.50	154.10	2.60	2.00	77	H247307	6.0	14	0.01	0.66	2200	4.63	
154.10	154.94	0.84	0.84	100	H247308	3.0	15	0.01	0.23	66	1.39	
154.94	156.36	1.42	1.42	100	H247309	6.0	15	<0.01	0.19	78	0.47	
156.36	159.00	2.64	2.60	98	H247310	9.0	15	<0.01	0.06	36	0.23	
-	-	-			H247224	0.3	12	5.50	0.23	>10000	474.00	Standard R-3
-	-	-			H247233	0.3	12	0.51	0.82	5860	96.50	Standard R-1
-	-	-			H247237	4.0	13	<0.01	0.01	5	0.03	Blank
-	-	-			H247275	0.3	14	0.46	0.86	4460	87.20	Standard R-1
-	-	-			H247279	4.5	14	<0.01	0.04	57	0.50	Blank
106.07	107.59	1.52	1.52	100	H247285	3.5	14	0.04	0.87	1350	13.25	Duplicate
-	-	-			H247298	0.3	14	5.65	0.28	>10000	460.00	Standard R-3

DENSITY LOG

HOLE: Rau-09-29

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
9.95	LST	FOS		11.0	6.1	816.8	525.0	2.52	2.80
11.20	LST	FOS		13.0	6.1	966.7	621.5	2.53	2.80
20.62	LST	FOS		12.0	6.1	856.8	552.8	2.43	2.82
23.62	LST	FOS		15.0	6.1	1121.6	709.2	2.54	2.72
30.50	LST	ALT		17.0	6.1	1392.1	881.8	2.78	2.73
31.10	LST	ALT		15.0	6.1	1152.4	728.2	2.61	2.72
36.00	LST	ALT		13.0	6.1	1052.0	658.3	2.75	2.67
44.85	LST	ALT		12.0	6.1	1036.3	646.8	2.94	2.66
62.00	LST	ALT		10.5	6.1	853.2	527.3	2.76	2.62
75.48	LST	ALT		11.0	6.1	897.6	571.0	2.77	2.75
83.75	LST	ALT		9.8	6.1	808.5	504.0	2.80	2.66
87.90	LST	ALT		9.9	6.1	860.7	549.6	2.96	2.77
96.20	LST	ALT		10.0	6.1	875.8	559.8	2.98	2.77
120.15	MBL			9.9	6.1	845.8	532.3	2.90	2.70
123.70	LST	ALT		10.0	6.1	846.3	529.4	2.88	2.67
132.00	LST	ALT		9.8	6.1	809.2	505.3	2.81	2.66

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-29

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3	LST	FOS	0.10	
4	LST	FOS	0.06	
5	LST	FOS	0.06	
6	LST	FOS	0.05	
7	LST	FOS	0.08	
8	LST	FOS	0.16	
9	LST	FOS	0.16	
10	LST	FOS	0.43	
11	LST	FOS	0.18	
12	LST	FOS	0.06	
13	LST	FOS	0.08	
14	LST	FOS	0.06	
15	LST	FOS	0.05	
16	LST	FOS	0.03	
17	LST	FOS	0.03	
18	LST	FOS	0.11	
19	LST	FOS	0.11	
20	LST	FOS	0.06	
21	LST	FOS	0.15	
22	LST	FOS	0.06	
23	LST	FOS	0.08	
24	OX	RBL	0.40	
25	OX	RBL	0.25	
26	OX	RBL	0.18	
27	LST	ALT	0.05	
28	LST	ALT	0.03	
29	LST	ALT	0.03	
30	LST	ALT	0.03	
31	LST	ALT	0.01	
32	LST	ALT	0.05	
33	LST	ALT	0.08	
34	LST	ALT	0.01	
35	LST	ALT	0.00	
36	LST	ALT	0.03	
37	LST	ALT	0.03	
38	LST	ALT	0.05	
39	LST	ALT	0.01	
40	LST	ALT	0.00	
41	LST	ALT	0.10	
42	LST	ALT	0.01	
43	LST	ALT	0.01	
44	LST	ALT	0.03	
45	LST	ALT	0.00	
46	LST	ALT	0.01	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47	LST	ALT	0.00	
48	LST	ALT	0.01	
49	LST	ALT	0.03	
50	LST	ALT	0.10	
51	LST	ALT	0.11	
52	LST	ALT	0.08	
53	LST	ALT	0.70	
54	LST	ALT	0.05	
55	LST	ALT	0.08	
56	LST	ALT	0.06	
57	LST	ALT	0.05	
58	LST	ALT	0.06	
59	LST	ALT	0.05	
60	LST	ALT	0.25	
61	LST	ALT	0.13	
62	LST	ALT	0.10	
63	LST	ALT	0.10	
64	LST	ALT	0.11	
65	LST	ALT	0.15	
66	LST	ALT	0.13	
67	LST	ALT	0.03	
68	LST	ALT	0.08	
69	LST	ALT	0.05	
70	LST	ALT	0.15	
71	LST	ALT	0.26	
72	LST	ALT	0.08	
73	LST	ALT	0.65	
74	LST	ALT	0.05	
75	LST	ALT	0.05	
76	LST	ALT	0.05	
77	LST	ALT	0.11	
78	LST	ALT	0.08	
79	LST	ALT	0.10	
80	LST	ALT	0.08	
81	LST	ALT	0.10	
82	LST	ALT	0.08	
83	LST	ALT	0.06	
84	LST	ALT	0.05	
85	LST	ALT	0.10	
86	LST	ALT	0.20	
87	LST	ALT	0.13	
88	LST	ALT	0.11	
89	LST	ALT	0.20	
90	LST	ALT	0.33	
91	LST	ALT	0.31	
92	LST	ALT	0.45	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93	LST	ALT	0.47	
94	LST	ALT	0.33	
95	LST	ALT	0.21	
96	LST	ALT	0.43	
97	DOL	ALT	0.35	
98	DOL	ALT	0.40	
99	DOL	ALT	0.28	
100	DOL	ALT	0.13	
101	DOL	ALT	0.33	
102	DOL	ALT	0.42	
103	DOL	ALT	0.36	
104	DOL	ALT	0.42	
105	DOL	ALT	0.35	
106	DOL	ALT	0.08	
107	DOL	ALT	0.50	
108	DOL	ALT	0.40	
109	DOL	ALT	0.38	
110	DOL	ALT	0.28	
111	DOL	ALT	0.26	
112	DOL	ALT	0.43	
113	DOL	ALT	0.35	
114	DOL	ALT	0.38	
115	DOL	ALT	0.18	
116	DOL	ALT	0.30	
117	DOL	ALT	0.28	
118	LST	ALT	0.26	
119	LST	ALT	0.11	
120	MBL		0.00	
121	MBL		0.01	
122	MBL		0.01	
123	MBL		0.01	
124	LST	ALT	0.03	
125	LST	ALT	0.08	
126	LST	ALT	0.15	
127	LST	ALT	0.06	
128	LST	ALT	0.11	
129	LST	ALT	0.08	
130	LST	ALT	0.33	
131	LST	ALT	0.08	
132	LST	ALT	0.11	
133	LST	ALT	0.25	
134	LST	ALT	0.16	
135	LST	ALT	0.08	
136	LST	ALT	0.06	
137	LST	ALT	0.05	
138	LST	ALT	0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139	LST	ALT	0.13	
140	LST	ALT	0.40	
141	LST	ALT	0.15	
142	LST	ALT	0.16	
143	VOL	ALT	0.26	
144	VOL	ALT	0.18	
145	DOL	ALT	0.25	
146	DOL	ALT	0.20	
147	DOL	ALT	0.31	
148	VOL	ALT	0.15	
149	VOL	ALT	0.30	
150	VOL	ALT	0.33	
151	LST	ALT	0.26	
152	LST	ALT	0.50	
153	LST	ALT	0.48	
154	LST	ALT	0.16	
155	MBL	ALT	0.18	
156	MBL	ALT	0.18	
157	MBL	ALT	0.18	
158	MBL	ALT	0.16	
159	MBL	ALT	0.47	

BOX LOG

HOLE: Rau-09-29

BOX	FROM (m)	TO (m)
1	2.55	6.34
2	6.34	10.27
3	10.27	14.37
4	14.37	18.96
5	18.96	22.80
6	22.80	26.45
7	26.45	30.89
8	30.89	35.08
9	35.08	39.08
10	39.08	43.59
11	43.59	48.58
12	48.58	51.90
13	51.90	56.04
14	56.04	60.35
15	60.35	64.49
16	64.49	68.56
17	68.56	72.33
18	72.33	76.48
19	76.48	80.48
20	80.48	80.69
21	80.69	88.78
22	88.78	92.73
23	92.73	96.93
24	96.93	101.00
25	101.00	105.33
26	105.33	109.37
27	109.37	113.69
28	113.69	117.95
29	117.95	122.83
30	122.83	126.76
31	126.76	130.66
32	130.66	134.83
33	134.83	138.68
34	138.68	142.79
35	142.79	146.92

BOX	FROM (m)	TO (m)
36	146.92	150.62
37	150.62	155.19
38	155.19	159.00
39	159.00	159.41
	159.41	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-30
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528212	7119199	1359	222.51

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-55	compass				

Core size: BTW
Casing depth: 3.05 (m) out

Drilling dates: July 9 - 11, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.64	2.64	OVB	
2.64	30.55	27.91	LST	Altered
30.55	110.75	80.20	LST	Fossiliferous
110.75	156.20	45.45	LST	Brecciated
156.20	174.80	18.60	LST	Altered
174.80	177.09	2.29	LST	Altered
177.09	207.89	30.80	LEP	Volcaniclastic
207.89	209.50	1.61	LST	Altered
209.50	210.82	1.32	SHL	
210.82	213.82	3.00	LST	Altered
213.82	222.50	8.68	LST	

SAMPLES

Numbers: H247315-H247336, H247371-H247388
Batches 15, 16 & 17
Total: 40
Date sent:
Certificate: VA09073272, VA09073270, VA09073352

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-30

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.64	2.64	OVB																			
2.64	30.55	27.91	LST	ALT	BN	BD	50					t			m							Medium grey limestone with fine grained pyrite cubes disseminated throughout. Bedding runs at 50 deg to CA. Light tan-yellow bleached/carbonate altered zones occur commonly. Thin 3 mm Ca veins cut the core at 10 deg to CA.
						VN	10	50														
																						21.10-22.30 m: Core is very fractured.
						BD	45					w			m							26.03-30.55 m: Pyrite crystals are 1-3 mm and sub-hedral are disseminated throughout. Pyrite is moderately oxidized. A structural fabric runs at 45 deg to CA. Lower contact is quite sharp at 60 deg to CA.
						VN	10															
						CN	60															
30.55	110.75	80.20	LST	FOS	FO	FO	15					w			f							Medium to dark grey slightly fossiliferous pyritic limestone with foliation at 15 deg to CA. Trace to weak coral mound fragments and crinoid stem fragments. Very fine grained pyrite occurs as fine disseminations and patches. Occasional Ca veins occur at 60 deg to CA. Almost no alteration of core other than slight oxidation of pyrite at the top grading to progressively more carbonate alteration towards the bottom. Foliation folds around the crinoid fragments, does not deform them.
						BD	60	90														37.60 m: The contact between a fossiliferous and non fossiliferous bed in the limestone is at 60 deg to CA. Foliation occurs at 15 deg, and fractures occur at 30 deg.
						FR	30															41.00 m: There is a gradual steepening of the structural fabric so it is near parallel to CA.
						VN	60															
															f							43.67-48.77 m: Faintly altered grey-yellow pyritic fossiliferous limestone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						CN	60					w	HE	w	f							48.77-69.20 m: Medium to dark grey, very fossiliferous, structurally deformed limestone with 5% medium brown carbonate alteration zones. These zones are soft and scratch easily with a fingernail. The oxidized red-brown pyrite seems to be slightly more concentrated in these zones. Pyrite weakly occurs disseminated. The crinoid and coral fragments are quite broken up and appear to be slightly deformed by the structural overprint. The upper contact of the unit is sharp at 60 deg to CA. The altered zones have a general orientation of 40-60 deg to CA, but are highly variable. They contain small hematite patches- 3-5%, 2-3 mm.
																						66.53-66.80 m: Coarse grained slightly dolomitized white calcite vein.
																						67.00 m: the structural overprint becomes less intense and the fossils become less structurally broken up and deformed.
																						69.20-70.35 m: Slightly rubbly coarse grained calcite with slightly yellowy-orange alteration.
																						70.19-70.35 m: Yellowy-orange light brown clay gouge zone with a few angular fragments of medium grey limestone.
																						70.35-76.50 m: Slightly recrystallized medium grey fossiliferous limestone. Slightly fractured up with minor pale yellow orange alteration along the fractures. Structural fabric runs at 60 deg to CA. Slightly altered CA veins run at 30 deg to CA. Later healed fractures run at 30 deg to CA.
						FO	60															
						VN	30															
						FR	30															
					MA								HE	f								76.50-80.05 m: Pale purple-grey limestone grit with hematite occurring in very thin irregular fracture fills. The lower contact is bound by a 3 cm hematite-siderite alteration zone at 60 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	60															Medium to dark grey fossiliferous limestone with very faint bands represented by slightly darker grey limestone occurring at 60 deg to CA. Bands are 3-5 cm thick. Top 75 cm is a slightly altered (yellowy-orange-brown) zone that occurs in undulating patches. Pyrite occurs in 0.5-1 cm clotty patches as well as fine grained disseminations. No strong structural overprint occurs in this zone. Very thin <1mm Ca veinlets occur at 50 deg to CA and 260 deg to BD.
						FO	40															
						VN	50	260														
						FO	40								w							89.00 m there is a gradual increase in the concentration of fossils-crinoid stem fragments including star crinoids and coral fragments. The banding become slightly more obvious highlighted by non fossiliferous horizons. A faint structural overprint occurs at 40 deg to the CA.
110.75	156.20	45.45	LST		BX	VN	10								w							Medium-dark grey crackle brecciated limestone with 1-1.5 cm medium to coarse grained dolomite veins cutting at 10 deg to CA. Pyrite occurs in fine disseminations and small patches. In parts the limestone has a uniform coarse grained appearance.
					CR																	113.70-117.85 m: Marble zone.
				ALT		VN	70						HE	t								121.40-133.95 m: The unit have become more evenly and intensely crackle brecciated. Slight pale yellow-orange alteration cross cutting Ca veins. Also slight hematization occurs at 128.70 m.
																						133.95-136.40 m: The clasts are sub-angular to sub-rounded and up to 2 cm in size.
																						134.60-135.85 m: Fractured zone with medium brown dirty coating on fractures.
						VN	45								w							136.40-141.50 m: Medium grey gritty finely crackled limestone with Ca veins that cut 45 deg to CA. Sub-hedral pyrite cubes occur scattered up to 2 mm in size.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
			LST		BX							w			w							141.50-147.70 m: Medium grey fluid brecciated gritty limestone with 2 mm calcite veins occasionally occurring at 65 deg to CA. Pyrite occurs as small patches and disseminations throughout that are slightly oxidized.
																						145.60 m: 10 cm wide coarse grained dolomite vein cuts the limestone at 40 deg to CA.
				ALT		BD	60															147.70-149.58 m: Altered medium brown oxide stain and weak banded sericite alteration at 60 deg to CA. Large (up to 3 cm diameter) pyrite crystals occur scattered throughout along with fine grained subhedral crystals.
													HE	ms								149.58-152.99 m: Patchy fluid collapse and crackle brecciated limestone with minor zones of red-purple brown extremely hematite altered and slightly rubbly zones.
156.20	174.80	18.60	LST	ALT	BN	BD	40		m				SID	w								Banded, slightly fluid brecciated dolomitized limestone with coarser grained spotty limestone horizons. Bedding occurs at 40 deg to CA. Siderite veins at 60 deg to CA occur from 158.49-163.15 m, 163.53-163.60, 163.98, and 164.05 m
					BX																	169.12-170.10 m: There are black horizons at 40 deg to CA with thin cream layers within them. They seem to cut the limestone. VOLCANICLASTIC ??? - fractures are graphitic.
												w										170.53-171.35 m: Orange-brown altered zone. Possible oxide stain form a few pyrite grains that occur within.
174.80	177.09	2.29	LST	ALT	BN	BD	60						HE	w								Rubbly upper contact. Orange beige brown altered/bleached strongly altered limestone with banding at 60 deg to CA. Contains moderate (5-7%) cubic grains 2-4 mm disseminated throughout. Many of these grains are gone, but a pitted texture remains. Some of the bands are hematite rich. The lower contact is rubbly.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
177.09	187.54	10.45	LEP	ALT		FO	60			f												Light to medium grey leopard printed volcaniclastic. A faint foliation occurs at 60 deg to CA. Intervals of weakly to strongly bleached/altered zones give the core a light beige tan colour. These bleached zones are gradational and are typically 10-50 cm wide. The bleaching is concentrated around slightly vuggy hematite rich zones that parallel the foliation. The zones are 1-2 cm thick and occur at 179.11,181.65, 181.89, and 182.05 m. Weak sericite (pastel green) alteration occurs throughout. The unit fizzes strongly with acid.
						FR	30															
187.54	188.18	0.64	SID										SID	I								Intensely altered orange red-brown siderite altered limestone. (COLOUR: 2.5YR 4/6 - Red)
188.18	207.89	19.71	LEP	ALT		FO	45			m					t							Pale tanish grey-white leopard printed volcaniclastic with pale tan-greenish yellow sericite patches and stringers. Foliation runs at 45 deg to CA. Pale peachy-orange-tan bleached/altered zones occur surrounding some fractures and thin siderite veins. These bleached layered zones account for 20-30 % of the core. Trace very fine grained disseminated pyrite is scattered throughout.
						FR	20	275														
						FO	45			f					w							198.92-207.89 m: Less altered medium grey/brown leopard print limestone. Fizzes moderately with HC Foliation occurs at 45 deg to CA. Fairly concentrated tan-beige-grey sericite patches and stringers follow the foliation. Very fine grained disseminated pyrite occurs throughout. Fractured surfaces have orange-brown altered (oxidized) powdered coating.
																						206.32-206.64 m and 207.76-207.87 m: Combination of gritty orange-red-brown siderite clay with angular dark grey volcaniclastic fragments. Both the clay and the rock fragments fizz strongly with acid. (COLOUR: 5YR 4/6 - yellowish red)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
207.89	209.50	1.61	LST	ALT	FO	FO	50						He	w	t							Fine grained medium grey limestone with a purple/grey hematite alteration in zones. Foliation runs at 50 deg to CA.
209.50	210.82	1.32	SHL		FR										f							Black shale with moderately strong pyrite patches and disseminations. Quite fractured up. Fractured surfaces have dark grey powdery coating with a slightly metallic looking sheen- GRAPHITE. Pyrite appears most concentrated associated with calcite clots.
210.82	213.82	3.00	LST	ALT	BX				m						t							Medium grey brecciated dolomitized limestone with angular to subangular fragments 0.2-2 cm of black shale. Matrix appears to be speckly medium to light grey. Fine grained disseminated pyrite occurs throughout.
213.82	222.50	8.68	LST		BX	VN	30		s						w							Brecciated dolomitized limestone. The entire unit looks somewhat overprinted (dolomitized?). Clasts are more irregular. There appears to be much more fluid flow through the unit. Pyrite occurs in concentrated patches occurring in slightly vuggy zones.
					CR	VN	60															214.75-222.50 m: Crackle brecciated limestone. Thin calcite veinlets (1-3 mm) cut the crackle breccia at between 30-60 deg to CA. These veinlets show light yellowy alteration.
																						216.74-218.12 m: Highly fractured area with light medium orange siderite coating fractures. (5YR 6/6- reddish yellow)
																						222.50 m - E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-30

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	2.64	2.64	0.00	0	0.00	0			
2.64	2.74	0.10	0.10	100	0.00	0	MS	SW	
2.74	3.35	0.61	0.35	57	0.00	0	MS	SW	
3.35	3.96	0.61	0.37	61	0.00	0	MS	SW	
3.96	4.88	0.92	0.72	78	0.10	11	MS	SW	
4.88	6.10	1.22	1.20	98	0.77	63	MS	SW	
6.10	7.01	0.91	0.71	78	0.33	36	MS	SW	
7.01	7.92	0.91	0.63	69	0.00	0	MS	SW	
7.92	9.14	1.22	1.22	100	0.80	66	MS	SW	
9.14	10.67	1.53	1.50	98	1.15	75	MS	SW	
10.67	10.97	0.30	0.30	100	0.00	0	MS	SW	
10.97	12.19	1.22	1.09	89	0.53	43	MS	SW	
12.19	12.95	0.76	0.76	100	0.36	47	MS	SW	
12.95	13.72	0.77	0.77	100	0.00	0	MS	SW	
13.72	15.24	1.52	1.52	100	1.06	70	MS	SW	
15.24	16.46	1.22	1.22	100	0.81	66	MS	SW	
16.46	17.07	0.61	0.61	100	0.24	39	MS	SW	
17.07	18.29	1.22	1.10	90	1.07	88	MS	SW	
18.29	19.81	1.52	1.52	100	1.00	66	MS	SW	
19.81	20.57	0.76	0.76	100	0.18	24	MS	SW	
20.57	21.49	0.92	0.59	64	0.26	28	MS	SW	
21.49	22.10	0.61	0.47	77	0.00	0	MS	SW	
22.10	23.47	1.37	1.37	100	1.02	74	MS	SW	
23.47	24.38	0.91	0.74	81	0.30	33	MS	SW	
24.38	25.91	1.53	1.53	100	0.65	42	MS	SW	
25.91	27.43	1.52	1.41	93	1.04	68	W	MW	
27.43	28.96	1.53	1.53	100	0.82	54	W	MW	
28.96	30.48	1.52	1.52	100	1.05	69	W	SW	
30.48	32.00	1.52	1.52	100	1.27	84	MS	SW	
32.00	33.53	1.53	1.47	96	1.28	84	MS	FR	
33.53	35.05	1.52	1.52	100	1.32	87	MS	FR	
35.05	36.58	1.53	1.53	100	1.53	100	MS	FR	
36.58	38.10	1.52	1.52	100	1.35	89	MS	FR	
38.10	39.62	1.52	1.52	100	1.26	83	MS	FR	
39.62	41.15	1.53	1.53	100	1.32	86	MS	FR	
41.15	42.67	1.52	1.52	100	1.52	100	MS	FR	
42.67	44.20	1.53	1.53	100	1.26	82	MS	FR	
44.20	45.72	1.52	1.47	97	1.36	89	MS	SW	
45.72	47.24	1.52	1.39	91	1.13	74	MS	SW	
47.24	48.77	1.53	1.53	100	1.33	87	MS	SW	
48.77	50.29	1.52	1.52	100	1.32	87	MS	SW	
50.29	51.82	1.53	1.53	100	1.29	84	MS	SW	
51.82	53.34	1.52	1.52	100	1.43	94	MS	SW	
53.34	54.86	1.52	1.52	100	1.41	93	MS	SW	
54.86	56.39	1.53	1.51	99	1.42	93	MS	SW	
56.39	57.91	1.52	1.52	100	1.52	100	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
57.91	59.44	1.53	1.53	100	1.48	97	MS	SW	
59.44	60.96	1.52	1.52	100	1.48	97	MS	SW	
60.96	62.48	1.52	1.51	99	1.25	82	MS	SW	
62.48	64.01	1.53	1.49	97	1.42	93	MS	SW	
64.01	65.53	1.52	1.52	100	1.45	95	MS	SW	
65.53	67.06	1.53	1.52	99	1.16	76	MS	SW	
67.06	68.58	1.52	1.51	99	1.51	99	MS	SW	
68.58	70.10	1.52	1.52	100	0.71	47	MS	SW	
70.10	71.63	1.53	1.23	80	0.45	29	MS	SW	
71.63	73.15	1.52	1.49	98	0.56	37	MS	SW	
73.15	74.68	1.53	1.53	100	0.57	37	MS	MW	
74.68	76.20	1.52	1.51	99	1.18	78	MS	SW	
76.20	77.72	1.52	1.52	100	1.36	89	MS	SW	
77.72	79.25	1.53	1.50	98	0.98	64	MS	SW	
79.25	80.77	1.52	1.52	100	1.02	67	MS	SW	
80.77	82.30	1.53	1.53	100	1.53	100	MS	SW	
82.30	83.82	1.52	1.52	100	1.52	100	MS	SW	
83.82	85.34	1.52	1.52	100	1.52	100	MS	SW	
85.34	88.39	3.05	3.00	98	2.95	97	MS	FR	
88.39	91.44	3.05	3.05	100	2.81	92	MS	FR	
91.44	94.49	3.05	3.05	100	2.93	96	MS	FR	
94.49	97.54	3.05	3.05	100	2.89	95	MS	FR	
97.54	100.58	3.04	3.04	100	3.04	100	MS	FR	
100.58	103.63	3.05	3.05	100	2.73	90	MS	FR	
103.63	106.68	3.05	3.05	100	2.63	86	MS	FR	
106.68	109.73	3.05	3.05	100	2.97	97	MS	FR	
109.73	112.78	3.05	3.05	100	2.88	94	MS	FR	
112.78	115.82	3.04	3.04	100	2.79	92	MS	FR	
115.82	118.87	3.05	3.05	100	1.12	37	MS	FR	
118.87	121.92	3.05	3.02	99	2.78	91	MS	FR	
121.92	124.97	3.05	3.04	100	2.54	83	MS	SW	
124.97	128.02	3.05	3.05	100	1.38	45	MS	SW	
128.02	130.45	2.43	1.83	75	1.00	41	MS	SW	
130.45	131.06	0.61	0.61	100	0.00	0	MS	SW	
131.06	134.11	3.05	3.05	100	2.72	89	MS	SW	
134.11	137.16	3.05	3.05	100	1.41	46	MS	SW	
137.16	140.21	3.05	3.05	100	2.67	88	MS	SW	
140.21	143.26	3.05	2.99	98	2.80	92	MS	SW	
143.26	146.30	3.04	3.04	100	1.43	47	MS	SW	
146.30	149.35	3.05	3.05	100	1.71	56	MS	SW	
149.35	152.40	3.05	3.05	100	1.30	43	MS	SW	
152.40	155.45	3.05	2.35	77	1.69	55	MS	MW	
155.45	156.06	0.61	0.25	41	0.00	0	MS	MW	
156.06	158.49	2.43	1.35	56	0.77	32	MS	SW	
158.49	161.85	3.36	0.08	2	0.00	0	W	MW	
161.85	163.07	1.22	0.31	25	0.00	0	W	MW	
163.07	163.53	0.46	0.15	33	0.00	0	W	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
163.53	163.98	0.45	0.25	56	0.00	0	MS	SW	
163.98	166.12	2.14	2.14	100	1.95	91	MS	SW	
166.12	169.16	3.04	3.04	100	2.20	72	MS	SW	
169.16	172.21	3.05	3.03	99	2.77	91	MS	SW	
172.21	174.96	2.75	2.71	99	1.30	47	MS	SW	
174.96	177.09	2.13	2.05	96	1.05	49	MS	SW	
177.09	179.83	2.74	2.74	100	2.74	100	MS	SW	
179.83	182.88	3.05	3.05	100	2.92	96	MS	SW	
182.88	185.93	3.05	3.05	100	2.99	98	MS	SW	
185.93	188.98	3.05	3.05	100	2.25	74	MS	SW	
188.98	192.02	3.04	3.04	100	2.66	87	MS	SW	
192.02	195.07	3.05	3.03	99	2.64	87	MS	SW	
195.07	198.12	3.05	3.05	100	2.35	77	MS	SW	
198.12	201.17	3.05	3.05	100	2.29	75	MS	SW	
201.17	204.21	3.04	3.05	100	2.09	69	MS	SW	
204.21	206.50	2.29	2.23	97	1.84	80	MS	SW	
206.50	207.87	1.37	1.21	88	0.21	15	W	MW	
207.87	210.31	2.44	2.44	100	1.23	50	MS	SW	
210.31	213.36	3.05	3.05	100	1.95	64	MS	SW	
213.36	216.41	3.05	3.05	100	1.93	63	MS	SW	
216.41	219.46	3.05	3.05	100	1.32	43	MS	SW	
219.46	222.50	3.04	3.05	100	2.83	93	MS	SW	
	222.50	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-30

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
56.39	59.44	3.05	3.05	100	H247315	5.0	15	0.01	0.08	31	0.22	
59.44	62.48	3.04	3.04	100	H247316	5.0	15	<0.01	0.06	30	0.10	
68.89	71.63	2.74	2.40	88	H247317	4.0	15	0.01	0.23	87	0.10	
71.63	74.68	3.05	3.05	100	H247319	5.0	15	0.01	0.40	209	0.99	
143.26	146.30	3.04	3.04	100	H247320	5.0	15	0.01	0.17	346	1.91	
146.30	147.70	1.40	1.40	100	H247321	2.5	15	0.01	0.57	131	4.34	
147.70	149.58	1.88	1.88	100	H247322	2.5	15	1.53	0.53	>10000	74.70	
149.58	151.50	1.92	1.90	99	H247324	3.0	15	0.03	0.77	611	11.85	
151.50	152.99	1.49	1.49	100	H247325	2.5	15	0.01	0.13	114	1.07	
152.99	154.00	1.01	1.01	100	H247326	1.5	15	0.12	0.48	1150	16.70	
154.00	156.20	2.20	1.20	55	H247327	1.5	15	0.19	1.98	3430	16.45	
156.20	158.49	2.29	1.24	54	H247328	2.0	15	0.01	0.13	457	1.80	
158.49	161.85	3.36	0.10	3	H247329	0.3	15	0.02	1.84	>10000	4.68	
161.85	163.07	1.22	0.23	19	H247330	0.5	15	0.04	1.94	>10000	10.60	
163.07	163.98	0.91	0.40	44	H247331	0.5	15	0.06	0.86	3470	2.02	
163.98	166.12	2.14	2.14	100	H247332	4.0	15	0.01	0.46	335	2.29	
166.12	169.12	3.00	2.99	100	H247333	5.0	15	0.01	0.60	87	1.72	
169.12	170.53	1.41	1.41	100	H247334	2.5	15	0.02	0.53	195	1.42	
170.53	172.95	2.42	2.40	99	H247336	4.0	15	0.02	0.42	658	1.98	
172.95	174.80	1.85	1.85	100	H247371	3.0	16	0.06	1.10	896	3.25	
174.80	177.09	2.29	2.23	97	H247372	3.0	16	0.05	0.30	712	3.09	
177.09	179.83	2.74	2.74	100	H247374	5.0	16	0.01	0.14	90	0.78	
179.83	182.88	3.05	3.03	99	H247375	5.0	16	0.01	0.21	109	0.29	
182.88	185.93	3.05	3.05	100	H247376	5.5	16	0.01	0.14	81	0.47	
185.93	187.54	1.61	1.53	95	H247377	3.0	16	<0.01	0.22	35	0.33	
187.54	188.18	0.64	0.63	98	H247378	1.0	16	0.06	1.15	112	4.40	
188.18	191.00	2.82	2.82	100	H247379	5.0	16	<0.01	0.44	50	0.17	
191.00	194.00	3.00	3.00	100	H247380	5.0	17	0.01	0.15	60	0.58	
204.21	206.12	1.91	1.91	100	H247381	3.5	17	0.05	0.30	245	0.86	
206.12	207.89	1.77	1.39	79	H247382	2.0	17	0.02	0.57	320	2.22	
207.89	209.50	1.61	1.61	100	H247383	3.0	17	0.06	0.39	92	3.16	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
209.50	210.82	1.32	1.25	95	H247384	1.0	17	0.14	1.48	144	13.75	
210.82	213.82	3.00	3.00	100	H247385	6.0	17	0.03	0.65	30	4.77	
213.82	216.41	2.59	2.55	98	H247386	4.5	17	0.01	0.56	88	3.30	
216.41	219.46	3.05	2.93	96	H247387	5.0	17	<0.01	0.35	34	1.49	
219.46	222.50	3.04	3.04	100	H247388	5.5	17	0.01	0.36	45	1.97	
-	-	-			H247318	0.3	15	5.52	0.24	>10000	464.00	Standard R-3
-	-	-			H247323	4.0	15	<0.01	0.02	13	0.09	Blank
-	-	-			H247335	0.3	15	0.49	0.89	4010	101.50	Standard R-1
-	-	-			H247373	0.3	16	1.67	1.33	>10000	315.00	Standard R-2

DENSTIY LOG

HOLE: Rau-09-30

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
25.15	LST	FOS		14.8	4.2	618.3	389.3	3.02	2.70
42.00	LST	FOS		14.2	4.2	610.5	388.2	3.10	2.75
58.20	LST	FOS		14.9	4.2	622.2	391.1	3.01	2.69
77.20	LST	FOS		14.8	4.2	615.1	387.2	3.00	2.70
128.30	LST			14.9	4.2	580.7	366.5	2.81	2.71
143.56	LST			14.7	4.2	578.9	366.0	2.84	2.72
171.50	LST	ALT		15.0	4.2	593.9	376.3	2.86	2.73
177.40	LST	ALT		14.8	4.2	604.3	389.1	2.95	2.81
182.40	LEP	ALT		14.9	4.2	605.1	389.3	2.93	2.80
212.05	LST	ALT		14.7	4.2	606.3	393.4	2.98	2.85
220.10	LST			14.7	4.2	601.4	388.3	2.95	2.82

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-30

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3	LST	ALT	0.10	
4	LST	ALT	0.02	
5	LST	ALT	0.06	
6	LST	ALT	0.14	
7	LST	ALT	0.08	
8	LST	ALT	0.02	
9	LST	ALT	0.10	
10	LST	ALT	0.14	
11	LST	ALT	0.08	
12	LST	ALT	0.16	
13	LST	ALT	0.08	
14	LST	ALT	0.47	
15	LST	ALT	0.08	
16	LST	ALT	0.24	
17	LST	ALT	0.26	
18	LST	ALT	0.20	
19	LST	ALT	0.16	
20	LST	ALT	0.08	
21	LST	ALT	0.14	
22	LST	ALT	0.08	
23	LST	ALT	0.22	
24	LST	ALT	0.10	
25	LST	ALT	0.18	
26	LST	ALT	0.24	
27	LST	ALT	0.14	
28	LST	ALT	0.06	
29	LST	ALT	0.20	
30	LST	ALT	0.06	
31	LST	FOS	0.14	
32	LST	FOS	0.24	
33	LST	FOS	2.05	
34	LST	FOS	2.02	
35	LST	FOS	0.34	
36	LST	FOS	1.37	
37	LST	FOS	0.59	
38	LST	FOS	0.84	
39	LST	FOS	0.55	
40	LST	FOS	0.84	
41	LST	FOS	1.20	
42	LST	FOS	0.34	
43	LST	FOS	0.16	
44	LST	FOS	0.08	
45	LST	FOS	0.14	
46	LST	FOS	0.10	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47	LST	FOS	0.12	
48	LST	FOS	0.08	
49	LST	FOS	0.08	
50	LST	FOS	0.06	
51	LST	FOS	0.04	
52	LST	FOS	0.10	
53	LST	FOS	0.04	
54	LST	FOS	0.10	
55	LST	FOS	0.06	
56	LST	FOS	0.08	
57	LST	FOS	0.10	
58	LST	FOS	0.61	
59	LST	FOS	0.14	
60	LST	FOS	0.04	
61	LST	FOS	0.12	
62	LST	FOS	0.08	
63	LST	FOS	0.10	
64	LST	FOS	0.04	
65	LST	FOS	0.10	
66	LST	FOS	0.12	
67	LST	FOS	0.75	
68	LST	FOS	0.04	
69	LST	FOS	0.06	
70	LST	FOS	0.08	
71	LST	FOS	0.65	
72	LST	FOS	0.04	
73	LST	FOS	0.04	
74	LST	FOS	0.02	
75	LST	FOS	0.04	
76	LST	FOS	0.04	
77	LST	FOS	0.04	
78	LST	FOS	0.06	
79	LST	FOS	0.04	
80	LST	FOS	0.30	
81	LST	FOS	0.04	
82	LST	FOS	0.51	
83	LST	FOS	0.08	
84	LST	FOS	0.06	
85	LST	FOS	0.14	
86	LST	FOS	0.06	
87	LST	FOS	0.55	
88	LST	FOS	1.23	
89	LST	FOS	0.73	
90	LST	FOS	0.04	
91	LST	FOS	0.04	
92	LST	FOS	0.14	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93	LST	FOS	0.55	
94	LST	FOS	0.12	
95	LST	FOS	0.75	
96	LST	FOS	0.14	
97	LST	FOS	0.41	
98	LST	FOS	0.79	
99	LST	FOS	0.34	
100	LST	FOS	0.16	
101	LST	FOS	0.12	
102	LST	FOS	0.18	
103	LST	FOS	0.06	
104	LST	FOS	0.10	
105	LST	FOS	0.30	
106	LST	FOS	0.06	
107	LST	FOS	0.10	
108	LST	FOS	0.16	
109	LST	FOS	0.12	
110	LST	FOS	0.10	
111	LST		0.10	
112	LST		0.06	
113	LST		0.04	
114	LST		0.10	
115	LST		0.16	
116	LST		0.28	
117	LST		0.61	
118	LST		1.96	
119	LST		0.10	
120	LST		0.12	
121	LST		0.10	
122	LST		0.10	
123	LST		0.22	
124	LST		0.08	
125	LST		0.08	
126	LST		0.04	
127	LST		0.04	
128	LST		0.02	
129	LST		0.06	
130	LST		0.06	
131	LST		0.24	
132	LST		0.08	
133	LST		0.14	
134	LST		0.12	
135	LST		0.12	
136	LST		0.24	
137	LST		0.04	
138	LST		0.08	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139	LST		0.04	
140	LST		0.06	
141	LST		0.06	
142	LST		0.06	
143	LST		0.10	
144	LST		0.14	
145	LST		0.08	
146	LST		0.41	
147	LST		0.18	
148	LST		0.34	
149	LST		0.43	
150	LST		0.14	
151	LST		0.12	
152	LST		0.06	
153	LST		0.10	
154	LST		0.20	
155	LST		0.18	
156	LST		0.02	
157	LST	ALT	0.08	
158	LST	ALT	0.08	
159	LST	ALT	0.26	
160	LST	ALT	0.38	
161	LST	ALT	0.28	
162	LST	ALT	0.69	
163	LST	ALT	0.49	
164	LST	ALT	0.10	
165	LST	ALT	0.04	
166	LST	ALT	0.16	
167	LST	ALT	0.14	
168	LST	ALT	0.14	
169	LST	ALT	0.22	
170	LST	ALT	0.26	
171	LST	ALT	0.47	
172	LST	ALT	0.12	
173	LST	ALT	0.16	
174	LST	ALT	0.26	
175	LST	ALT	0.10	
176	LST	ALT	0.20	
177	LST	ALT	0.10	
178	LEP	ALT	0.30	
179	LEP	ALT	0.34	
180	LEP	ALT	0.24	
181	LEP	ALT	0.22	
182	LEP	ALT	0.34	
183	LEP	ALT	0.26	
184	LEP	ALT	0.24	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
185	LEP	ALT	0.38	
186	LEP	ALT	0.20	
187	LEP	ALT	0.53	
188	SID		0.16	
189	LEP	ALT	0.20	
190	LEP	ALT	0.16	
191	LEP	ALT	0.16	
192	LEP	ALT	0.16	
193	LEP	ALT	0.14	
194	LEP	ALT	0.96	
195	LEP	ALT	0.41	
196	LEP	ALT	0.22	
197	LEP	ALT	0.18	
198	LEP	ALT	0.36	
199	LEP	ALT	0.16	
200	LEP	ALT	0.12	
201	LEP	ALT	0.32	
202	LEP	ALT	0.32	
203	LEP	ALT	1.27	
204	LEP	ALT	0.92	
205	LEP	ALT	0.12	
206	LEP	ALT	0.24	
207	LEP	ALT	0.18	
208	LST	ALT	0.08	
209	SHL		0.10	
210	LST	ALT	0.04	
211	LST	ALT	0.08	
212	LST	ALT	0.04	
213	LST	ALT	0.04	
214	LST		0.06	
215	LST		0.02	
216	LST		0.04	
217	LST		0.02	
218	LST		0.06	
219	LST		0.12	
220	LST		0.08	
221	LST		0.02	
222	LST		0.02	

BOX LOG

HOLE: Rau-09-30

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	2.64	8.00	36	200.28	205.63
2	8.00	12.95	37	205.63	210.82
3	12.95	17.73	38	210.82	216.05
4	17.73	22.95	39	216.05	220.88
5	22.95	28.37	40	220.88	222.50
6	28.37	33.82		222.50	E.O.H.
7	33.82	39.51			
8	39.51	45.06			
9	45.06	50.69			
10	50.69	56.20			
11	56.20	61.83			
12	61.83	67.33			
13	67.33	73.04			
14	73.04	78.40			
15	78.40	83.92			
16	83.92	89.58			
17	89.58	95.16			
18	95.16	100.85			
19	100.85	106.60			
20	106.60	112.28			
21	112.28	117.95			
22	117.95	123.54			
23	123.54	128.92			
24	128.92	134.58			
25	134.58	139.86			
26	139.86	145.45			
27	145.45	150.77			
28	150.77	157.80			
29	157.80	167.37			
30	167.37	172.95			
31	172.95	178.32			
32	178.32	185.90			
33	185.90	189.36			
34	189.36	194.98			
35	194.98	200.28			

RAU PROJECT

ZONE: Tiger
SECTION: 10+200W

HOLE: Rau-09-31
CLAIM: Rau 98f

Easting	Northing	Elev.	Depth (m)
528421	7119246	1315.68	80.5

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 9.14 (m) out

Drilling dates: July 12 - 13, 2009

Logged by: J. Lane

Target: Rau-08-16

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.05	3.05	OVB	
3.05	7.03	3.98	LST	
7.03	13.11	6.08	OX	
13.11	16.60	3.49	OX	Clay rich
16.60	39.01	22.41	OX	Clay rich
39.01	43.00	3.99	LST	Clay
43.00	78.35	35.35	OX	Rubbly
78.35	80.50	2.15	VOL	Clay

SAMPLES	
Numbers:	H247315-H247336, H247371-H247388
	Batches 15, 16 & 17
Total:	51
Date sent:	
Certificate:	VA09073272, VA09073270, VA09073352

COMMENTS

The hole was ended at 80.50 m because the rods were beginning to get stuck in the clay rich ground.

GEOLOGY LOG

HOLE: Rau-09-31

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.05	3.05	OVB		RBL																	
3.05	7.03	3.98	LST																			Medium grey limestone, quite broken up and rubbly Slightly crackle brecciated with irregular Ca veinlets Weak hematite dusting occurs on some fractures.
7.03	13.11	6.08	OX	RBL																		Dark red-purple brown moderately rubbly limonite (?). Pieces are surprisingly heavy (residual sulphide). No visible sulphide. (COLOUR: 2.5Y 2.5/1 - reddish black)
																						12.67-13.11 m: Medium yellow-orange-brown gritty clay with medium grey angular fragments sand sized and up to 2 cm.
13.11	16.60	3.49	OX	CLY																		Green-tan-grey gritty clay with subangular medium grey very hard rubble fragments up to 5 cm in size. COLOUR: (10YR 4/6- DARK YELLOWISH BROWN)
																						13.00-16.50 m: COLOUR 2.5YR 5/2 - greyish brown.
																						14.00-14.63 m: COLOUR: 2.5 Y 5/2- light yellowish brown.
																						16.15-16.60 m: Grey-green-blue quartz rich gritty clay. Quartz fragments are sand sized to sub-angular fragments 1.5 cm.
16.60	39.01	22.41	OX	CLY																		Medium to dark orange-red-brown oxide clay with minor greenish tinted clay. The interval contains gritty fragments of limonite and subangular bull quartz. Yellow mica flakes occur locally within.
																						16.60-17.25 m: COLOUR: 2.5Y4/3-olive brown
																						17.25-18.50 m: COLOUR 2.5 YR 2.5/1 - reddish black.
																						18.85-19.20 m: Orange-brown gritty clay with minor sub-angular fragments 2-3 mm in size. (COLOUR: 10YR 5/8 - yellowish brown)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						19.20-20.73 m: Medium orange-red-brown gritty clay oxide with 3-5 % subangular quartz fragments up to 1 cm in size. (COLOUR: 10YR 5/8 - yellowish brown)
																						20.73-22.25 m: Orange-brown to dark brown gritty clay with some angular quartz fragments up to 2 cm. (COLOUR: 10 YR 3/2 - very dark grey brown)
																						22.25-23.77 m: Medium brown grit with occasional quartz fragments and tan-yellow mica flakes.
																						23.77-26.82 m: Yellow-brown to darker brown gritty sandy clay with subangular quartz fragments up to 3 cm. Yellow-tan mica flakes are prevalent from ~ 23.00-39.00 m. (COLOUR: 10 YR 3/2 - very dark grey brown)
																						26.82-28.35 m: Darker slightly reddish-brown gritty clay with rubbly fragments usually <2 cm in size. (COLOUR 10 YR 3/2 - very dark greyish brown)
																						28.35-29.87 m: Grey brown clay with some more competent sections. (COLOUR: 10 YR 5/8 yellowish brown)
						BD	60															29.87-31.39 m: Mixture of brown, orange-brown clay (with grit) and large white fractured quartz fragments up to 8 cm in size. Banding visible at 60 deg to CA. (COLOUR: 10 YR 5/8 yellowish brown)
			LST	ALT		m																31.39-31.95 m: Light grey dolomitized brecciated limestone with black material filling in fractures .
						BD	75															32.92-35.97 m: Yellowish-brown clay with a few reddish-brown stained angular quartz fragments (1-2 cm). At 34.44 m: 15 cm of dark reddish brown colour. Faint banding occurs at 75 deg to CA.
																						35.97-37.49 m: Yellowish brown sandy clay with greyish, finer sections, and angular quartz fragments up to 1 cm in size.
			QZ																			37.49-37.63 m: Fractured, white quartz pebbles 2-4 cm in size.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						37.63-39.01 m: Brown and yellow-brown clay with Qz grit and subangular fragments up to several cm.
39.01	43.00	3.99	LST	CLY																		Tan-green to brown, extremely altered and quite sof limestone. Patchy camo texture with some spots reacting to HCL. Mild yellow-red-brown fracture staining. (COLOUR 10YR 5/3 - brown)
43.00	78.35	35.35	OX	RBL																		Grey-brown to yellow brown rubbly oxide with sand sized grit, some reddish-brown limonite fragments up to 5 cm and quartz rubble.
																						43.59-46.63 m: Yellowish to greyish-brown with some orange-brown gritty crumbly material. Angula quartz fragments from 0.5-2 cm in size. (COLOUR 10YR 4/ Dark yellowish brown)
																						46.63-51.21 m: Mixture of crumbly brown sand/grit (30%) and grey slightly crackled 5-10 cm limestone chunks (70%). Some angular quartz fragments also occur.
																						51.21-54.25 m: Brown to yellow-brown clay/sand with fractured, subangular quartz chunks, usually ~ 1 cm thick but up to 5 cm. (COLOUR 10YR 4/ Dark yellowish brown)
						BD	55															54.25-69.49 m: Dark reddish-brown moderately competent oxidized unit with a vuggy appearance in zones. Rubbly zones are gritty with minor clay. Contains linear orange oxide zones 0.5 cm thick at 55 deg to CA. Originally sulphide bands ?? COLOUR 5 YR 4/6 - yellowish red.
						BD	50															69.49-78.35 m: Yellowish-orange oxide with distinct banding at 50 deg to CA. Oxide is probably after Ca and not sulphide. Slightly patchy vuggy bands suggest possible replacement of thin, fine grained pyrite bands similar to those seen in the lower part of the mineralized horizon. (COLOUR: 10 YR 5/8 Yellowish brown)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
78.35	80.50	2.15	VOL		FO	FO	50															78.35-80.50 m: Light yellow-tan-brown unit. Very fissile along foliation that runs 50 deg to CA. Most likely altered volcaniclastic.
																						80.50 m: E.O.H - The hole was ended because of difficult ground. The rods were starting to get stuck in the clay rich ground.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-31

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.05	3.96	0.91	0.86	95	0.00	0	S	SW	
3.96	5.49	1.53	0.30	20	0.00	0	S	SW	
5.49	7.01	1.52	0.27	18	0.00	0	S	SW	
7.01	8.53	1.52	0.60	39	0.00	0	EW	EW	
8.53	10.06	1.53	0.92	60	0.00	0	EW	EW	
10.06	11.58	1.52	0.15	10	0.00	0	EW	EW	
11.58	13.11	1.53	0.87	57	0.00	0	EW	EW	
13.11	14.63	1.52	0.63	41	0.00	0	EW	EW	
14.63	16.15	1.52	0.10	7	0.00	0	EW	EW	
16.15	17.68	1.53	1.40	92	0.00	0	EW	EW	
17.68	19.20	1.52	0.73	48	0.00	0	EW	EW	
19.20	20.73	1.53	1.53	100	0.00	0	EW	EW	
20.73	22.25	1.52	1.30	86	0.00	0	EW	EW	
22.25	23.77	1.52	0.60	39	0.00	0	EW	EW	
23.77	25.30	1.53	1.15	75	0.00	0	EW	EW	
25.30	26.82	1.52	1.40	92	0.00	0	EW	EW	
26.82	28.35	1.53	1.53	100	0.00	0	EW	EW	
28.35	29.87	1.52	1.40	92	0.00	0	EW	EW	
29.87	31.39	1.52	0.75	49	0.00	0	EW	EW	
31.39	32.92	1.53	1.20	78	0.00	0	EW	EW	
32.92	34.44	1.52	1.18	78	0.00	0	EW	EW	
34.44	35.97	1.53	1.53	100	0.00	0	EW	EW	
35.97	37.49	1.52	1.29	85	0.00	0	EW	EW	
37.49	39.01	1.52	0.80	53	0.00	0	EW	EW	
39.01	40.54	1.53	0.78	51	0.25	16	EW	EW	
40.54	42.06	1.52	1.47	97	0.40	26	EW	EW	
42.06	43.59	1.53	1.49	97	0.38	25	EW	EW	
43.59	45.11	1.52	0.95	63	0.00	0	EW	EW	
45.11	46.63	1.52	0.63	41	0.00	0	EW	EW	
46.63	49.68	3.05	0.69	23	0.00	0	EW	EW	
49.68	51.21	1.53	0.84	55	0.13	8	EW	EW	
51.21	52.73	1.52	1.44	95	0.00	0	EW	EW	
52.73	54.25	1.52	0.90	59	0.00	0	EW	EW	
54.25	55.78	1.53	1.46	95	0.00	0	EW	EW	
55.78	57.30	1.52	0.83	55	0.00	0	EW	EW	
57.30	58.83	1.53	1.05	69	0.00	0	EW	EW	
58.83	61.87	3.04	0.33	11	0.00	0	EW	EW	
61.87	63.40	1.53	0.63	41	0.00	0	EW	EW	
63.40	64.92	1.52	0.75	49	0.00	0	EW	EW	
64.92	66.45	1.53	0.65	42	0.00	0	EW	EW	
66.45	67.97	1.52	0.66	43	0.00	0	EW	EW	
67.97	69.49	1.52	0.26	17	0.00	0	EW	EW	
69.49	71.02	1.53	1.15	75	0.00	0	EW	EW	
71.02	72.54	1.52	0.75	49	0.00	0	EW	EW	
72.54	74.07	1.53	0.92	60	0.00	0	EW	EW	
74.07	75.59	1.52	1.52	100	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
75.59	77.11	1.52	1.43	94	0.00	0	EW	EW	
77.11	78.64	1.53	1.53	100	0.00	0	EW	EW	
78.64	80.16	1.52	1.39	91	0.00	0	EW	EW	
80.16	80.50	0.34	0.34	100	0.00	0	EW	EW	
	80.50	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-31

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.05	5.49	2.44	1.03	42	H247337	3.0	15	<0.01	0.18	31	0.73	
5.49	7.03	1.54	0.32	21	H247338	0.5	15	0.01	0.44	42	2.28	
7.03	8.53	1.50	0.53	35	H247339	1.0	15	0.78	155.00	>10000	5260.00	
8.53	10.06	1.53	0.82	54	H247340	3.5	15	0.60	34.50	>10000	786.00	
10.06	11.58	1.52	0.17	11	H247341	0.5	15	0.38	50.50	>10000	427.00	
11.58	12.67	1.09	0.47	43	H247342	1.5	15	0.40	84.90	>10000	1660.00	
12.67	13.11	0.44	0.36	82	H247344	1.0	16	17.30	>100	>10000	7330.00	
13.11	14.63	1.52	0.64	42	H247345	2.0	16	2.47	6.63	330	33.20	
14.63	16.15	1.52	0.10	7	H247346	0.5	16	0.64	6.87	105	14.90	
16.15	16.60	0.45	0.39	87	H247347	1.5	16	2.29	10.90	932	39.10	
16.60	17.68	1.08	1.02	94	H247349	3.0	16	5.05	12.80	>10000	1350.00	
17.68	19.20	1.52	0.73	48	H247350	1.0	16	10.85	2.84	>10000	721.00	
19.20	20.73	1.53	1.53	100	H247351	5.0	16	2.78	0.49	>10000	964.00	
20.73	22.25	1.52	1.27	84	H247352	4.0	16	7.05	0.49	>10000	535.00	
22.25	23.77	1.52	0.60	39	H247353	2.0	16	5.93	0.39	>10000	319.00	
23.77	26.82	3.05	2.55	84	H247354	8.0	16	2.44	0.32	>10000	753.00	
26.82	28.35	1.53	1.53	100	H247355	4.5	16	1.35	0.52	>10000	391.00	
28.35	29.87	1.52	1.40	92	H247357	4.0	16	0.55	0.24	5580	125.50	
29.87	31.39	1.52	0.75	49	H247358	2.0	16	0.63	0.38	4490	135.50	
31.39	32.92	1.53	1.20	78	H247359	3.0	16	5.09	1.44	6700	338.00	
32.92	35.97	3.02	2.71	90	H247361	8.0	16	2.44	0.29	>10000	252.00	
35.97	37.63	1.66	1.20	72	H247362	4.0	16	1.76	0.33	>10000	475.00	
37.63	39.01	1.38	0.89	64	H247363	2.0	16	0.95	0.16	9070	53.70	
39.01	42.06	3.05	2.17	71	H247364	6.0	16	0.23	0.11	2230	7.41	
42.06	43.00	0.94	0.87	93	H247365	2.5	16	0.27	0.11	2470	8.43	
43.00	45.11	2.11	1.55	73	H247366	4.0	16	1.03	0.52	>10000	307.00	
45.11	46.63	1.52	0.63	41	H247367	2.0	16	0.91	0.45	7450	350.00	
46.63	48.76	2.13	0.69	32	H247368	2.0	16	0.46	0.70	2630	120.00	
48.76	49.68	0.92	0.84	91	H247369	2.5	16	0.41	0.48	3150	195.50	
49.68	51.21	1.53	0.27	18	H247389	0.5	17	0.69	1.21	6120	258.00	
51.21	54.25	3.04	2.03	67	H247391	4.0	17	1.21	0.63	>10000	391.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
54.25	57.30	3.05	2.35	77	H247392	7.0	17	3.17	75.80	>10000	7360.00	
57.30	58.83	1.53	1.00	65	H247393	2.5	17	1.32	2.82	>10000	345.00	
58.83	60.35	1.52	0.18	12	H247394	0.3	17	1.22	2.23	6450	120.00	
60.35	61.87	1.52	0.14	9	H247395	0.3	17	0.29	0.47	3570	96.10	
61.87	63.40	1.53	0.68	44	H247396	1.0	17	1.48	1060.00	8950	510.00	
63.40	66.45	3.05	1.35	44	H247397	3.5	17	1.36	68.00	8570	525.00	
66.45	67.97	1.52	0.68	45	H247399	1.5	17	2.02	4.88	>10000	268.00	
67.97	69.49	1.52	0.28	18	H247401	0.3	17	7.06	6.51	>10000	1840.00	
69.49	72.54	3.05	2.90	95	H247402	4.0	17	0.56	2.50	>10000	774.00	
72.54	75.59	3.05	2.40	79	H247403	6.0	17	0.23	2.05	>10000	149.50	
75.59	78.35	2.76	2.75	100	H247404	7.0	17	0.10	2.04	>10000	40.30	
78.35	80.50	2.15	2.00	93	H247405	5.5	17	0.06	1.46	8510	28.40	
-	-	-			H247343	4.0	15	<0.01	0.14	34	2.28	Blank
-	-	-			H247348	4.0	16	0.01	0.07	<5	0.95	Blank
26.82	28.35	1.53	1.53	100	H247356	2.0	16	1.18	0.40	>10000	403.00	Duplicate
-	-	-			H247360	0.3	16	5.56	0.21	>10000	455.00	Standard R-3
-	-	-			H247370	3.5	16	0.01	0.03	22	1.16	Blank
-	-	-			H247390	0.3	17	1.50	2.20	>10000	431.00	Standard R-2
-	-	-			H247398	4.0	17	<0.01	0.19	48	2.70	Blank
66.45	67.67	1.22	0.68	56	H247400	1.0	17	1.64	6.87	>10000	391.00	Duplicate

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-31

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
4.00	LST		0.03	
5.00	LST		0.01	
6.00	LST		0.01	
7.00	LST		0.00	
8.00	OX		0.43	
9.00	OX		0.75	
10.00	OX		0.95	
11.00	OX		0.53	
12.00	OX		0.72	
13.00	OX	CLY	0.35	
14.00	OX	CLY	0.01	
15.00	OX	CLY	0.08	
16.00	OX	CLY	0.33	
17.00	OX	CLY	0.16	
18.00	OX	CLY	0.28	
19.00	OX	CLY	0.57	
20.00	OX	CLY	0.57	
21.00	OX	CLY	0.42	
22.00	OX	CLY	0.36	
23.00	OX	CLY	0.58	
24.00	OX	CLY	0.23	
25.00	OX	CLY	0.28	
26.00	OX	CLY	0.40	
27.00	OX	CLY	0.72	
28.00	OX	CLY	0.50	
29.00	OX	CLY	0.45	
30.00	OX	CLY	0.26	
31.00	OX	CLY	0.33	
32.00	OX	CLY	0.47	
33.00	OX	CLY	0.30	
34.00	OX	CLY	0.42	
35.00	OX	CLY	0.20	
36.00	OX	CLY	0.25	
37.00	OX	CLY	0.16	
38.00	OX	CLY	0.30	
39.00	OX	CLY	0.13	
40.00	LST	CLY	0.05	
41.00	LST	CLY	0.26	
42.00	LST	CLY	0.10	
43.00	LST	CLY	0.18	
44.00	OX	RBL	0.15	
45.00	OX	RBL	0.35	
46.00	OX	RBL	0.33	
47.00	OX	RBL	0.26	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
48.00	OX	RBL	0.99	
49.00	OX	RBL	0.06	
50.00	OX	RBL	0.38	
51.00	OX	RBL	0.13	
52.00	OX	RBL	0.35	
53.00	OX	RBL	0.42	
54.00	OX	RBL	0.18	
55.00	OX	RBL	0.87	
56.00	OX	RBL	0.90	
57.00	OX	RBL	0.48	
58.00	OX	RBL	0.57	
59.00	OX	RBL	0.63	
60.00	OX	RBL	0.31	
61.00	OX	RBL	0.11	
62.00	OX	RBL	1.62	
63.00	OX	RBL	3.66	
64.00	OX	RBL	0.26	
65.00	OX	RBL	0.35	
66.00	OX	RBL	0.40	
67.00	OX	RBL	0.33	
68.00	OX	RBL	0.53	
69.00	OX	RBL	0.38	
70.00	OX	RBL	0.20	
71.00	OX	RBL	0.21	
72.00	OX	RBL	1.83	
73.00	OX	RBL	0.85	
74.00	OX	RBL	0.38	
75.00	OX	RBL	0.73	
76.00	OX	RBL	0.21	
77.00	OX	RBL	0.28	
78.00	OX	RBL	0.40	
79.00	VOL		0.21	
80.00	VOL		0.48	

BOX LOG

HOLE: Rau-09-31

BOX	FROM (m)	TO (m)
1	3.05	11.58
2	11.58	18.50
3	18.50	22.90
4	22.90	27.54
5	27.54	31.93
6	31.93	36.62
7	36.62	41.57
8	41.57	46.63
9	46.63	53.47
10	53.47	60.35
11	60.35	69.96
12	69.96	75.23
13	75.23	78.98
14	78.98	80.50
	80.50	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-32
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528391	7119354	1382	101.19

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-70	compass				

Core size: HQ
Casing depth: 1.52 (m) out

Drilling dates: July 12 - 13, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	0.85	0.85	OVB	
0.85	11.28	10.43	LST	Mottled
11.28	42.05	30.77	LST	Fossiliferous
42.05	52.10	10.05	LST	Brecciated
52.10	65.24	13.14	LST	Altered - hematite?
65.24	74.81	9.57	LST	Fossiliferous
74.81	76.78	1.97	MBL	
76.78	101.19	24.41	VOL	Brecciated

SAMPLES

Numbers: none

Total:
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-32

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	0.85	0.85	OVB																			
0.85	11.28	10.43	LST		MO	BD	15															Very fractured dark grey to black limestone with a mottled/camo textured limestone. A few areas show bedding at 15 deg to CA. Ca veins 0.3-1 cm thick cut the first 1 m of the interval at 30 deg to CA. Contains irregular patches of medium tan-grey limestone. The contacts between the black and the tan-grey limestone are very sharp. While the patches themselves are very smooth and irregular.
						VN	30															
11.28	42.05	30.77	LST	FOS	BD	BD	5															Medium to light grey limestone with thin dark grey bands at 5 deg to CA. There is a slight crenulation offset of the bedding. The unit is fossiliferous in parts.
						BD	15															14.42-22.07 m: Trace crinoid stem fragments now occur in the unit which is a medium to dark grey colour. Bedding occurs at 15 deg to CA. There is a general mottled undertone to the interval with very dark grey-black and medium grey limestone.
						CN	15															22.07-26.36 m: Back into the light-medium grey limestone with thin 1-3 mm dark grey bands that define bedding at 15 deg to CA. Very strange sutured contact between the interval above and this one. Very thin Ca veinlets cut at 15 deg to CA and 120 deg to BD.
						VN	15	120														
						BD	30															26.36-42.05 m: Dark grey fossiliferous limestone with disturbed looking crinoid stem, and coral mound fragments. Bedding is very faint to invisible in many areas, and run at 30 deg to CA.
						VN	30															27.57 m: 2 cm wide Ca veins running at 30 deg to CA.
																						34.15-35.90 m: Very fractured, slightly rubbly zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
42.05	52.10	10.05	LST		BX																	Medium to dark grey fluid collapse brecciated limestone with an overall irregular mottled texture. The unit has a high proportion of white calcite.
52.10	65.24	13.14	LST	ALT	BX	CN	35						He	f								Medium purplish grey (hematite altered?) limestone with coarse mosaic brecciation texture. Clasts are sub-angular and clast supported in white to light grey calcite. Upper contact is sharp at 35 deg to CA. Non-brecciated coarser grained fossiliferous zones occur within. The calcite contains black flakes that are very soft - some form of impurity. No late veins cut the breccia.
						BD	50															60.18-62.62 m: Banded (hematite altered?) limestone with irregular Ca stringer veinlets weathered to a pale yellow colour.
																						62.62-65.24 m: (Hematite altered?) brecciated limestone now contains non-altered zones of medium grey limestone. Clasts are very irregular, rounded to sub-rounded. In general the texture is very fluid. The matrix is white calcite. Overall 20% matrix, 80% clasts.
65.24	74.81	9.57	LST	FOS	BN	BD	60															Thinly laminated medium to dark grey limestone, with gritty interlayered tan-grey beds (20%). Crinoid stem fragments (including star crinoids) frequently occur. Also can see elongate rice shaped patches - burrows, or possibly some other form of trace fossil or fossil ???
																						65.30-67.20 m: Very fractured zone with 5 % sub rounded rubble fragments.
																						67.83-68.56 m: Irregularly bedded grit intervals with purple-red-grey colouration (hematite?)
74.81	76.78	1.97	MBL			BD	50															Very gradual upper contact, sharp lower contact. Top 1 m is marbleized banded limestone. By 75.50 m see light grey marble with a slight greenish tint and relict bedding at 50 deg to CA. A relict Ca veins occur at 30 deg to CA.
						VN	30															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						CN	30															
76.78	101.19	24.41	VOL		FO	FO	30															Medium-dark green grey volcaniclastic. Strongly foliated at 30 deg to CA. Ca veinlets (0.1-1 cm) cut volcaniclastic at 20 deg to CA. Upper contact consists of 5 cm dark grey-green clay.
						VN	20	350														86.61-87.06 m: Rubbly clay zone
																						88.55-88.68 m: Rubbly fracture zone.
																						95.95 - 96.32 m: Fractured zone with slight clay on fractures.
																						99.00 m: Foliation becomes weaker.
																						100.50 m: Unit becomes more black in colour.
																						101.19 m E.O.H.

GEOTECHNICAL LOG

HOLE: Rau-09-32

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.85	1.52	0.67	0.67	100	0.00	0	MS	SW	
1.52	2.44	0.92	0.89	97	0.21	23	MS	SW	
2.44	3.35	0.91	0.83	91	0.10	11	MS	SW	
3.35	3.96	0.61	0.45	74	0.00	0	MS	SW	
3.96	4.88	0.92	0.90	98	0.25	27	MS	SW	
4.88	5.64	0.76	0.76	100	0.35	46	MS	SW	
5.64	6.10	0.46	0.30	65	0.00	0	MS	SW	
6.10	7.01	0.91	0.91	100	0.21	23	MS	SW	
7.01	7.92	0.91	0.61	67	0.16	18	MS	SW	
7.92	8.38	0.46	0.46	100	0.10	22	MS	SW	
8.38	9.75	1.37	1.30	95	0.44	32	MS	SW	
9.75	11.28	1.53	1.53	100	1.07	70	MS	SW	
11.28	12.80	1.52	1.42	93	0.56	37	MS	SW	
12.80	13.72	0.92	0.85	92	0.35	38	MS	SW	
13.72	14.94	1.22	1.22	100	0.68	56	MS	SW	
14.94	16.46	1.52	1.52	100	0.87	57	MS	FR	
16.46	17.98	1.52	1.52	100	1.14	75	MS	FR	
17.98	18.75	0.77	0.70	91	0.31	40	MS	FR	
18.75	19.81	1.06	1.06	100	0.87	82	MS	FR	
19.81	20.54	0.73	0.73	100	0.33	45	MS	FR	
20.54	21.64	1.10	0.98	89	0.74	67	MS	FR	
21.64	22.86	1.22	1.22	100	1.08	89	MS	FR	
22.86	24.38	1.52	1.52	100	1.16	76	MS	FR	
24.38	25.30	0.92	0.85	92	0.62	67	MS	FR	
25.30	26.37	1.07	1.07	100	0.85	79	MS	FR	
26.37	27.89	1.52	1.47	97	1.35	89	MS	FR	
27.89	29.26	1.37	1.37	100	0.90	66	MS	FR	
29.26	30.48	1.22	1.22	100	0.92	75	MS	FR	
30.48	31.09	0.61	0.61	100	0.39	64	MS	FR	
31.09	32.77	1.68	0.99	59	0.48	29	MS	FR	
32.77	33.83	1.06	1.06	100	0.58	55	MS	FR	
33.83	35.05	1.22	1.22	100	0.53	43	MS	FR	
35.05	35.81	0.76	0.76	100	0.10	13	MS	FR	
35.81	37.19	1.38	1.38	100	0.85	62	MS	FR	
37.19	38.71	1.52	1.52	100	1.40	92	MS	FR	
38.71	39.62	0.91	0.64	70	0.62	68	MS	FR	
39.62	41.15	1.53	1.53	100	1.45	95	MS	FR	
41.15	42.67	1.52	1.52	100	1.47	97	MS	FR	
42.67	44.20	1.53	1.50	98	1.15	75	MS	FR	
44.20	45.72	1.52	1.39	91	1.19	78	MS	FR	
45.72	47.24	1.52	1.52	100	1.41	93	MS	FR	
47.24	48.77	1.53	1.53	100	1.23	80	MS	FR	
48.77	50.29	1.52	1.46	96	1.14	75	MS	FR	
50.29	51.82	1.53	1.53	100	0.95	62	MS	FR	
51.82	53.34	1.52	1.52	100	1.17	77	MS	FR	
53.34	54.86	1.52	1.52	100	1.52	100	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
54.86	56.39	1.53	1.49	97	1.40	92	MS	FR	
56.39	57.91	1.52	1.50	99	1.00	66	MS	FR	
57.91	59.44	1.53	1.53	100	1.41	92	MS	FR	
59.44	60.96	1.52	1.52	100	0.90	59	MS	FR	
60.96	62.40	1.44	1.44	100	1.13	78	MS	FR	
62.40	64.01	1.61	1.61	100	0.89	55	MS	FR	
64.01	65.53	1.52	1.52	100	0.31	20	MS	FR	
65.53	66.14	0.61	0.44	72	0.00	0	MS	FR	
66.14	67.06	0.92	0.46	50	0.00	0	MS	FR	
67.06	67.51	0.45	0.45	100	0.00	0	MS	FR	
67.51	68.58	1.07	1.05	98	0.49	46	MS	FR	
68.58	70.10	1.52	1.52	100	0.90	59	MS	FR	
70.10	71.63	1.53	1.53	100	1.06	69	MS	FR	
71.63	73.15	1.52	1.52	100	1.12	74	MS	FR	
73.15	74.07	0.92	0.87	95	0.12	13	MS	FR	
74.07	75.59	1.52	1.52	100	0.25	16	MS	FR	
75.59	77.11	1.52	1.52	100	1.17	77	MS	FR	
77.11	79.25	2.14	1.97	92	0.93	43	MS	FR	
79.25	80.77	1.52	1.52	100	1.06	70	MS	FR	
80.77	81.53	0.76	0.76	100	0.58	76	MS	FR	
81.53	82.61	1.08	0.93	86	0.43	40	MS	FR	
82.61	83.52	0.91	0.91	100	0.75	82	MS	FR	
83.52	84.73	1.21	1.08	89	0.75	62	MS	FR	
84.73	85.50	0.77	0.77	100	0.50	65	MS	FR	
85.50	86.41	0.91	0.91	100	0.13	14	MS	FR	
86.41	87.02	0.61	0.50	82	0.10	16	MS	FR	
87.02	88.39	1.37	1.30	95	1.01	74	MS	FR	
88.39	89.31	0.92	0.92	100	0.60	65	MS	FR	
89.31	90.83	1.52	1.52	100	0.72	47	MS	FR	
90.83	92.05	1.22	1.16	95	0.84	69	MS	FR	
92.05	93.57	1.52	1.33	87	0.88	58	MS	FR	
93.57	94.95	1.38	1.38	100	0.90	65	MS	FR	
94.95	96.32	1.37	1.37	100	0.75	55	MS	FR	
96.32	97.54	1.22	1.19	98	1.06	87	MS	FR	
97.54	98.60	1.06	1.00	94	0.44	42	MS	FR	
98.60	100.13	1.53	1.53	100	0.90	59	MS	FR	
100.13	101.19	1.06	1.06	100	0.58	55	MS	FR	
	101.19	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-32

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
												None taken

DENSITY LOG

HOLE: Rau-09-32

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
16.00	LST	FOS		14.7	4.2	575.6	355.8	2.83	2.62
22.32	LST	FOS		14.8	4.2	581.2	363.8	2.83	2.67
23.66	LST	FOS		14.8	4.2	575.0	360.6	2.80	2.68
38.78	LST	FOS		14.8	4.2	598.7	381.8	2.92	2.76
58.64	LST	ALT	Hematite altered (?)	14.7	4.2	567.6	353.5	2.79	2.65
85.60	VOL			14.6	4.2	613.7	397.6	3.03	2.84
90.95	VOL			14.9	4.2	626.0	404.9	3.03	2.83
96.35	VOL			14.7	4.2	613.4	396.2	3.01	2.82

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-32

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00	LST		0.00	
2.00	LST		0.00	
3.00	LST		0.00	
4.00	LST		0.02	
5.00	LST		0.00	
6.00	LST		0.00	
7.00	LST		0.02	
8.00	LST		0.02	
9.00	LST		0.98	
10.00	LST		0.02	
11.00	LST		0.04	
12.00	LST	FOS	0.04	
13.00	LST	FOS	0.04	
14.00	LST	FOS	0.00	
15.00	LST	FOS	0.02	
16.00	LST	FOS	0.02	
17.00	LST	FOS	0.00	
18.00	LST	FOS	0.02	
19.00	LST	FOS	0.06	
20.00	LST	FOS	0.04	
21.00	LST	FOS	0.02	
22.00	LST	FOS	0.02	
23.00	LST	FOS	0.10	
24.00	LST	FOS	0.00	
25.00	LST	FOS	0.02	
26.00	LST	FOS	0.02	
27.00	LST	FOS	0.12	
28.00	LST	FOS	0.04	
29.00	LST	FOS	0.00	
30.00	LST	FOS	0.02	
31.00	LST	FOS	0.00	
32.00	LST	FOS	0.28	
33.00	LST	FOS	0.00	
34.00	LST	FOS	0.08	
35.00	LST	FOS	0.00	
36.00	LST	FOS	0.00	
37.00	LST	FOS	0.04	
38.00	LST	FOS	0.02	
39.00	LST	FOS	0.02	
40.00	LST	FOS	0.43	
41.00	LST	FOS	0.00	
42.00	LST	FOS	0.04	
43.00	LST		0.00	
44.00	LST		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00	LST		0.02	
46.00	LST		0.02	
47.00	LST		0.00	
48.00	LST		0.10	
49.00	LST		0.00	
50.00	LST		0.00	
51.00	LST		0.12	
52.00	LST		0.04	
53.00	LST	ALT	0.06	
54.00	LST	ALT	0.12	
55.00	LST	ALT	0.06	
56.00	LST	ALT	0.06	
57.00	LST	ALT	0.04	
58.00	LST	ALT	0.04	
59.00	LST	ALT	0.02	
60.00	LST	ALT	0.02	
61.00	LST	ALT	0.04	
62.00	LST	ALT	0.06	
63.00	LST	ALT	0.02	
64.00	LST	ALT	0.02	
65.00	LST	ALT	0.00	
66.00	LST	FOS	0.06	
67.00	LST	FOS	0.02	
68.00	LST	FOS	0.16	
69.00	LST	FOS	0.06	
70.00	LST	FOS	0.08	
71.00	LST	FOS	0.14	
72.00	LST	FOS	0.04	
73.00	LST	FOS	0.08	
74.00	LST	FOS	0.10	
75.00	MBL		0.10	
76.00	MBL		0.84	
77.00	VOL		60.30	
78.00	VOL		21.50	
79.00	VOL		20.80	
80.00	VOL		37.90	
81.00	VOL		34.80	
82.00	VOL		64.40	
83.00	VOL		35.80	
84.00	VOL		51.70	
85.00	VOL		37.20	
86.00	VOL		56.20	
87.00	VOL		54.40	
88.00	VOL		51.70	
89.00	VOL		38.70	
90.00	VOL		45.70	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
91.00	VOL		45.20	
92.00	VOL		59.70	
93.00	VOL		52.00	
94.00	VOL		55.80	
95.00	VOL		67.30	
96.00	VOL		30.20	
97.00	VOL		23.00	
98.00	VOL		68.00	
99.00	VOL		47.50	
100.00	VOL		14.90	
101.00	VOL		3.99	

HOLE: Rau-09-32

BOX	FROM (m)	TO (m)
1	0.85	5.23
2	5.23	8.65
3	8.65	13.20
4	13.20	18.30
5	18.30	23.31
6	23.31	28.30
7	28.30	33.30
8	33.30	38.07
9	38.07	43.69
10	43.69	49.10
11	49.10	54.43
12	54.43	59.33
13	59.33	64.86
14	64.86	70.27
15	70.27	75.59
16	75.59	81.07
17	81.07	86.34
18	86.34	91.55
19	91.55	96.80
20	96.80	101.19
	101.19	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+200W

HOLE: Rau-09-33
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528464.4	7119286	1332	147.83

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-65	compass				

Core size: BTW
Casing depth: 4.57 (m) out

Drilling dates: July 13 - 15, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.50	1.50	OVB	
1.50	30.75	29.25	LST	Brecciated
30.75	55.62	24.87	LST	
55.62	59.22	3.60	DOL	Clay altered
59.22	67.00	7.78	VOL	Altered
67.00	76.81	9.81	VOL	
76.81	79.20	2.39	OX	
79.20	84.12	4.92	VOL	Altered, clay rich
84.12	105.95	21.83	OX	
105.95	115.66	9.71	DOL	Clay altered
115.66	147.83	32.17	LEP	

SAMPLES

Numbers: H247406-H247450, H248601-H248620
Batches 17, 18, 19
Total: 65
Date sent:
Certificate: VA09073352, VA09073353, VA09068430

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-33

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.50	1.50	OVB																			
1.50	30.75	29.25	LST		BX	BD	10															Medium grey, weakly fossiliferous (1-3%), banded limestone with zones of fluid collapse breccia. The clasts are irregularly shaped, sub-rounded to rounded, 0.5-1.5 cm in diameter. The matrix is medium grained calcite and occurs in concentrations of approximately 50% where the breccia occurs. Bedding occurs as fine laminations 10 deg to CA, and are slightly crenulated. Mottled camo-print limestone generally occurs surrounding fluid brecciated zones. Thin Ca veinlets (1-3 mm) cut the limestone at 20-40 deg to CA.
						VN	30															1.50-5.30 m: Highly fractured zone.
																						5.30-16.67 m: Fluid collapse breccia.
					BN	BD	10															16.67-21.85 m: Bedded limestone.
																						21.85-24.29 m: Light grey zone of concentrated crinoid stem fragments and grit.
						VN	30															30.45-30.75 m: Rubbly coarse grained Ca vein.
30.75	55.62	24.87	LST		BN	BD	50															Predominately banded limestone with slight evidence of some fluid flow which makes the banding slightly irregular. Overall bedding occurs at 50 deg to CA
																						49.68-55.62 m: Banded limestone with thin 1-3 cm, taupe-brown clay bands filling fractures.
55.62	59.22	3.60	DOL	ALT	BN	BD	70															Dark brown altered fine to coarse grained dolomite extremely altered to dark (chocolate brown) clay like material. There appears to be a rough banded appearance with dolomite and dark alteration that looks similar to the banded texture of the sulphides in the main mineralized dolomite horizon. Banding occurs at 70 deg to CA. Overall, 10% dolomite, 90% dark brown alteration
				CLY																		58.62-59.22 m: Gradational addition of orange brown soft layers within the dark brown alteration. Lower contact is gradational.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
59.22	67.00	7.78	VOL	ALT	FO	FO	60			I												Light yellow altered volcaniclastic. Predominant foliation occurs at 60 deg to CA. Competent clay (with relict textures) are intermixed with only moderately altered volcaniclastic (5-10 cm) long zones. Overall 70% clay, 30% rock. Upper contact is very gradational.
67.00	76.81	9.81	VOL		FO	FO	80															Medium to dark grey fissile volcaniclastic with grey talc-like coatings and yellow-orange powder coating on fractures. Unit is very soft.
76.81	79.20	2.39	OX																			Medium brown gritty/sandy oxide with clay holding fragments together. Angular quartz fragments 0.3-3 cm in diameter occur scattered throughout. Fragments are dark brown-black silty calcareous siderite fragments. These fragments seem particularly heavy.
79.20	84.12	4.92	VOL	ALT CLY	FO	FO	50			I												Extremely altered medium grey volcaniclastic with extremely altered light yellow-tan clay (sericite altered) intervals. Relict foliation is faintly distinguishable at 50 deg to CA.
84.12	105.95	21.83	OX																			Gradual change from above unit into orange-brown gritty oxide with 5% angular bull quartz fragments 0.2-3 cm in diameter. Minor clay holds the limonite grit together.
																						86.11-86.41 m: Bright orange oxide clay.
																						88.39-90.22 m: Yellow slightly vitreous mica flakes, 1 mm in diameter, are speckled throughout this clay rich interval.
																						90.22-92.20 m: 10-15 cm sections of dark purple brown pitted limonite fragments and grit mixed together within medium brown gritty clay.
																						92.20-99.21 m: Grit and fragments now appear more red-brown in colour. They seem rather heavy for their size. Small angular quartz fragments also occur throughout (1-2%).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
						BD	75															99.21-102.87 m: Medium orange-red-brown clay with angular bull quartz fragments 0.2-2 cm in diameter. Broken surfaces show a red clay stain, probably hematite. Possible brecciated texture and bedding at 75 deg to CA (only seen at 103.10-103.50 m).
						BD	80															102.87-105.95 m: Intermixed medium grey limestone with competent medium grey clay showing original bedding preserved at 80 deg to CA.
105.95	115.66	9.71	DOL	ALT	BX	BD	75															Very altered medium grey fine grained dolomite with slightly yellow stained Ca veins (0.1-1 cm) cutting it. The dolomite is highly brecciated. Zones of medium green-grey tinted volcaniclastic (?) have turned almost completely to clay. The original bedding is preserved at 75 deg to CA. Moderately altered dolomite fragments occasionally have orange-red alteration coating. This unit is highly fractured.
				CLY		BD	55															107.70 m: Bedding in the clay occurs at 55 deg to CA.
													HE	s								109.40-110.32 m: Zone of strong hematite alteration.
																						112.40-113.50 m: Zone of strong hematite alteration deep red in colour and slightly vuggy.
115.66	133.21	17.55	LST	ALT		BD	60		ms						w							Medium grey moderately to strongly dolomitized limestone bedded at 60 deg to CA. Ca veinlets irregularly cut the unit at 20 and 60 deg to CA. Medium to coarse grained dolomite veins 0.5-3 cm thick cut the unit irregularly at 30 deg to CA. Occasional fractured surfaces are smooth and graphitic. Pyrite occurs associated with the dolomite veins, trace to weak overall. Towards the bottom of the interval the concentration of dolomite veins increases.
						VN	20															
						VN	60															
						VN	30															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
133.21	147.83	14.62	LEP		FO	FO	50								m							Light to medium grey finely spotted leopard volcaniclastic. Pyrite occurs as very fine grained disseminations and concentrated in bands following the foliation at 50 deg to CA.
															ms							133.21-140.21 m: pyrite occurs as semi-massive zones 1-10 cm wide. No sign of arsenopyrite. The pyrite is very fine grained.
															f							140.21-147.83 m: Gradual decrease in the pyrite concentration.
						VN	55	260														144.80-144.96 m: 7 cm thick medium grained dolomite vein.
																						147.83 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-33

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.68	2.59	0.91	0.91	100	0.00	0	MS	SW	
2.59	3.05	0.46	0.31	67	0.00	0	MS	SW	
3.05	3.20	0.15	0.13	87	0.00	0	MS	SW	
3.20	3.96	0.76	0.60	79	0.10	13	MS	SW	
3.96	4.57	0.61	0.28	46	0.00	0	MS	SW	
4.57	5.18	0.61	0.47	77	0.00	0	MS	FR	
5.18	6.71	1.53	1.32	86	1.11	73	MS	FR	
6.71	8.23	1.52	1.50	99	1.37	90	MS	FR	
8.23	9.75	1.52	1.35	89	1.23	81	MS	FR	
9.75	10.67	0.92	0.53	58	0.25	27	MS	FR	
10.67	12.19	1.52	1.47	97	1.35	89	MS	FR	
12.19	13.72	1.53	1.33	87	0.75	49	MS	FR	
13.72	15.24	1.52	1.52	100	1.40	92	MS	FR	
15.24	16.76	1.52	1.52	100	1.35	89	MS	FR	
16.76	18.29	1.53	1.28	84	0.77	50	MS	FR	
18.29	19.81	1.52	1.51	99	0.52	34	MS	FR	
19.81	21.34	1.53	1.43	93	0.22	14	MS	FR	
21.34	22.25	0.91	0.91	100	0.35	38	MS	FR	
22.25	23.77	1.52	1.52	100	1.15	76	MS	FR	
23.77	25.15	1.38	1.18	86	0.56	41	MS	FR	
25.15	26.67	1.52	1.52	100	0.84	55	MS	FR	
26.67	28.19	1.52	1.35	89	0.65	43	MS	FR	
28.19	29.57	1.38	1.08	78	0.33	24	MS	SW	
29.57	30.48	0.91	0.77	85	0.19	21	MS	SW	
30.48	32.00	1.52	1.52	100	0.41	27	MS	SW	
32.00	33.07	1.07	0.95	89	0.36	34	MS	FR	
33.07	34.14	1.07	1.05	98	0.24	22	MS	FR	
34.14	35.05	0.91	0.81	89	0.10	11	MS	FR	
35.05	36.12	1.07	1.07	100	0.55	51	MS	FR	
36.12	37.64	1.52	1.52	100	0.31	20	MS	FR	
37.64	39.01	1.37	1.15	84	0.40	29	MS	FR	
39.01	39.78	0.77	0.75	97	0.00	0	MS	FR	
39.78	41.00	1.22	1.22	100	1.51	124	MS	FR	
41.00	41.76	0.76	0.71	93	0.00	0	MS	FR	
41.76	42.21	0.45	0.43	96	0.00	0	MS	FR	
42.21	42.52	0.31	0.31	100	0.00	0	MS	FR	
42.52	43.13	0.61	0.46	75	0.00	0	MS	FR	
43.13	44.81	1.68	1.55	92	0.76	45	MS	FR	
44.81	46.33	1.52	1.52	100	0.90	59	MS	FR	
46.33	48.31	1.98	1.76	89	0.70	35	MS	FR	
48.31	49.68	1.37	1.35	99	0.85	62	MS	FR	
49.68	50.29	0.61	0.61	100	0.26	43	MS	SW	
50.29	51.05	0.76	0.69	91	0.17	22	MS	SW	
51.05	51.36	0.31	0.24	77	0.10	32	MS	SW	
51.36	51.82	0.46	0.42	91	0.00	0	MS	SW	
51.82	52.73	0.91	0.80	88	0.00	0	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
52.73	55.17	2.44	0.91	37	0.00	0	MS	SW	
55.17	56.39	1.22	1.12	92	0.21	17	MS	MW	
56.39	57.45	1.06	0.61	58	0.14	13	MS	HW	
57.45	57.91	0.46	0.45	98	0.00	0	MS	HW	
57.91	58.83	0.92	0.82	89	0.24	26	MS	HW	
58.83	59.44	0.61	0.61	100	0.00	0	W	HW	
59.44	60.20	0.76	0.28	37	0.10	13	VW	EW	
60.20	60.96	0.76	0.59	78	0.00	0	VW	EW	
60.96	61.57	0.61	0.46	75	0.00	0	VW	EW	
61.57	62.18	0.61	0.47	77	0.18	30	VW	EW	
62.18	62.79	0.61	0.61	100	0.11	18	VW	EW	
62.79	63.40	0.61	0.48	79	0.24	39	VW	EW	
63.40	64.00	0.60	0.60	100	0.00	0	EW	EW	
64.00	64.62	0.62	0.54	87	0.00	0	EW	EW	
64.62	64.92	0.30	0.24	80	0.00	0	EW	EW	
64.92	65.53	0.61	0.32	52	0.00	0	EW	EW	
65.53	65.99	0.46	0.45	98	0.00	0	EW	EW	
65.99	66.45	0.46	0.17	37	0.00	0	EW	EW	
66.45	67.06	0.61	0.37	61	0.00	0	EW	EW	
67.06	67.36	0.30	0.18	60	0.00	0	EW	EW	
67.36	67.67	0.31	0.31	100	0.00	0	EW	EW	
67.67	68.28	0.61	0.33	54	0.00	0	EW	EW	
68.28	68.73	0.45	0.09	20	0.00	0	EW	EW	
68.73	69.19	0.46	0.14	30	0.00	0	EW	EW	
69.19	69.65	0.46	0.15	33	0.00	0	EW	EW	
69.65	70.10	0.45	0.08	18	0.00	0	EW	EW	
70.10	70.41	0.31	0.18	58	0.00	0	EW	EW	
70.41	71.02	0.61	0.13	21	0.00	0	EW	EW	
71.02	71.32	0.30	0.30	100	0.00	0	EW	EW	
71.32	71.93	0.61	0.52	85	0.00	0	EW	EW	
71.93	72.54	0.61	0.41	67	0.00	0	EW	EW	
72.54	73.21	0.67	0.67	100	0.00	0	EW	EW	
73.21	73.91	0.70	0.30	43	0.00	0	VW	HW	
73.91	74.98	1.07	1.02	95	0.00	0	VW	HW	
74.98	75.74	0.76	0.76	100	0.00	0	VW	HW	
75.74	76.20	0.46	0.26	57	0.00	0	VW	HW	
76.20	76.81	0.61	0.41	67	0.00	0	VW	HW	
76.81	77.57	0.76	0.36	47	0.00	0	EW	EW	
77.57	78.49	0.92	0.81	88	0.00	0	EW	EW	
78.49	79.40	0.91	0.51	56	0.00	0	EW	EW	
79.40	80.01	0.61	0.05	8	0.00	0	EW	EW	
80.01	80.77	0.76	0.37	49	0.00	0	EW	EW	
80.77	81.69	0.92	0.78	85	0.00	0	EW	EW	
81.69	82.61	0.92	0.46	50	0.00	0	EW	EW	
82.61	84.12	1.51	0.39	26	0.00	0	EW	EW	
84.12	84.58	0.46	0.43	93	0.00	0	EW	EW	
84.58	85.65	1.07	0.71	66	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
85.65	86.11	0.46	0.41	89	0.00	0	EW	EW	
86.11	86.41	0.30	0.30	100	0.00	0	EW	EW	
86.41	88.39	1.98	0.35	18	0.00	0	EW	EW	
88.39	89.15	0.76	0.40	53	0.00	0	EW	EW	
89.15	90.22	1.07	0.29	27	0.00	0	EW	EW	
90.22	90.83	0.61	0.37	61	0.00	0	EW	EW	
90.83	91.59	0.76	0.28	37	0.00	0	EW	EW	
91.59	92.20	0.61	0.33	54	0.00	0	EW	EW	
92.20	93.12	0.92	0.20	22	0.00	0	EW	EW	
93.12	93.73	0.61	0.11	18	0.00	0	EW	EW	
93.73	94.34	0.61	0.28	46	0.00	0	EW	EW	
94.34	95.10	0.76	0.26	34	0.00	0	EW	EW	
95.10	95.71	0.61	0.28	46	0.00	0	EW	EW	
95.71	96.77	1.06	0.92	87	0.00	0	EW	EW	
96.77	97.23	0.46	0.25	54	0.00	0	EW	EW	
97.23	98.30	1.07	0.25	23	0.00	0	VW	EW	
98.30	99.21	0.91	0.83	91	0.00	0	VW	EW	
99.21	100.13	0.92	0.53	58	0.00	0	VW	EW	
100.13	100.43	0.30	0.00	0	0.00	0	VW	EW	
100.43	101.80	1.37	1.37	100	0.00	0	VW	EW	
101.80	102.87	1.07	0.73	68	0.00	0	VW	EW	
102.87	103.78	0.91	0.87	96	0.00	0	VW	EW	
103.78	104.24	0.46	0.26	57	0.00	0	VW	EW	
104.24	105.16	0.92	0.92	100	0.15	16	W	MW	
105.16	106.68	1.52	1.52	100	0.72	47	W	MW	
106.68	108.20	1.52	1.52	100	0.18	12	W	MW	
108.20	109.58	1.38	1.34	97	0.00	0	W	MW	
109.58	110.79	1.21	1.21	100	0.00	0	W	MW	
110.79	112.32	1.53	1.40	92	0.11	7	W	MW	
112.32	114.00	1.68	1.49	89	0.84	50	W	MW	
114.00	115.52	1.52	1.56	103	0.83	55	MS	SW	
115.52	117.04	1.52	1.48	97	0.50	33	MS	SW	
117.04	118.57	1.53	1.53	100	0.64	42	MS	SW	
118.57	120.09	1.52	1.52	100	0.41	27	MS	SW	
120.09	121.62	1.53	1.53	100	0.88	58	MS	SW	
121.62	123.14	1.52	1.52	100	1.52	100	MS	SW	
123.14	124.82	1.68	1.58	94	1.37	82	MS	SW	
124.82	126.34	1.52	1.52	100	1.28	84	MS	SW	
126.34	127.86	1.52	1.52	100	1.40	92	MS	SW	
127.86	129.39	1.53	1.53	100	1.19	78	MS	SW	
129.39	130.91	1.52	1.48	97	1.28	84	MS	SW	
130.91	132.59	1.68	1.57	93	1.03	61	MS	SW	
132.59	134.11	1.52	1.52	100	1.15	76	MS	SW	
134.11	135.64	1.53	1.53	100	1.44	94	MS	FR	
135.64	137.16	1.52	1.52	100	1.39	91	MS	FR	
137.16	138.68	1.52	1.52	100	1.23	81	MS	FR	
138.68	140.20	1.52	1.51	99	1.10	72	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
140.20	141.73	1.53	1.52	99	1.37	90	MS	FR	
141.73	143.26	1.53	1.53	100	1.08	71	MS	FR	
143.26	144.78	1.52	1.48	97	0.74	49	MS	FR	
144.78	146.30	1.52	1.52	100	0.80	53	MS	FR	
146.30	146.61	0.31	0.31	100	0.00	0	MS	FR	
146.61	147.83	1.22	1.00	82	0.69	57	MS	FR	
	147.83	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-33

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
44.81	47.09	2.28	2.20	96	H247406	3.3	17	<0.01	0.12	57	0.79	
47.09	49.68	2.59	2.52	97	H247407	4.0	17	0.01	0.03	67	0.91	
49.68	51.82	2.14	2.00	93	H247409	3.0	17	0.01	0.05	56	1.11	
51.82	52.73	0.91	0.82	90	H247410	1.0	17	0.01	0.05	79	0.87	
52.73	55.62	2.89	1.19	41	H247411	2.0	17	0.04	0.08	92	4.17	
55.62	56.39	0.77	0.77	100	H247412	1.0	17	1.64	0.13	219	120.50	
56.39	57.45	1.06	0.60	57	H247413	1.0	17	2.11	0.13	261	263.00	
57.45	59.22	1.77	1.67	94	H247414	2.0	17	2.78	0.34	1900	92.10	
59.22	60.20	0.98	0.49	50	H247416	1.0	18	0.24	0.54	1140	4.08	
60.20	62.79	2.59	2.23	86	H247417	3.0	18	1.37	<0.01	1910	14.25	
62.79	64.62	1.83	1.60	87	H247418	2.5	18	0.30	<0.01	2170	1.04	
64.62	65.53	0.91	0.48	53	H247419	0.5	18	0.39	1.43	1315	20.10	
65.53	67.00	1.47	0.88	60	H247421	1.0	18	1.78	2.67	1900	101.50	
67.00	69.19	2.19	1.14	52	H247422	1.5	18	2.13	3.54	5360	74.70	
69.19	71.02	1.83	0.63	34	H247423	0.5	18	0.93	1.57	2960	75.20	
71.02	72.54	1.52	1.24	82	H247424	1.5	18	0.10	0.25	505	89.00	
72.54	73.91	1.37	0.94	69	H247425	1.0	18	0.16	0.35	616	123.00	
73.91	75.74	1.83	1.71	93	H247426	2.0	18	0.10	<0.01	113	6.97	
75.74	76.81	1.07	0.68	64	H247427	1.0	18	0.21	0.05	193	70.90	
76.81	79.20	2.39	1.45	61	H247428	2.0	18	0.38	0.91	2760	45.60	
79.20	79.40	0.20	0.18	90	H247429	0.5	18	0.40	0.80	1800	120.00	
79.40	80.77	1.37	0.42	31	H247430	0.5	18	0.23	3.29	573	525.00	
80.77	82.61	1.84	1.25	68	H247431	1.0	18	0.10	0.15	232	117.00	
82.61	84.12	1.51	0.45	30	H247432	0.5	18	0.10	0.30	404	161.00	
84.12	85.65	1.53	1.10	72	H247433	1.0	18	0.13	0.48	2730	140.50	
85.65	86.41	0.76	0.76	149	H247435	1.5	18	1.15	2.07	4840	427.00	
86.41	88.39	1.98	0.46	23	H247436	0.5	18	0.91	2.66	4780	208.00	
88.39	90.22	1.83	0.70	38	H247437	1.0	18	0.83	1.77	7950	161.00	
90.22	92.20	1.98	0.96	48	H247438	1.0	18	5.89	16.40	6140	470.00	
92.20	93.73	1.53	0.40	26	H247439	0.5	18	1.87	21.20	7740	362.00	
93.73	95.71	1.98	0.90	45	H247441	1.0	18	1.04	8.89	5930	173.00	
95.71	97.23	1.52	1.18	78	H247442	1.0	18	0.72	10.40	8480	287.00	
97.23	99.21	1.98	1.05	53	H247444	1.0	18	0.75	13.90	9730	1880.00	
99.21	100.13	0.92	0.55	60	H247446	0.5	18	0.16	18.00	5590	189.50	
100.43	102.87	2.44	2.11	86	H247447	2.5	18	0.32	1.93	5640	1885.00	
102.87	104.31	1.44	1.22	85	H247448	1.0	18	0.06	0.40	1860	57.90	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
104.31	105.91	1.60	1.56	98	H247449	2.5	18	0.07	0.22	203	22.20	
105.91	108.20	2.29	2.22	97	H247450	4.0	18	0.02	0.50	130	6.18	
108.20	109.40	1.20	1.05	87	H248601	1.0	18	0.05	0.22	89	8.16	
109.40	110.32	0.92	0.92	100	H248602	1.0	19	0.15	0.33	402	32.60	
110.32	112.40	2.08	1.73	83	H248603	2.5	19	0.04	0.13	170	14.15	
112.40	113.50	1.10	0.83	75	H248604	1.0	19	0.04	0.25	1420	12.40	
113.50	115.66	2.16	2.16	100	H248606	4.0	19	0.01	0.10	123	3.23	
115.66	118.57	2.91	2.90	100	H248608	5.5	19	0.03	0.16	69	5.96	
118.57	121.62	3.05	2.89	95	H248609	5.5	19	0.03	0.26	145	50.80	
121.62	124.82	3.20	2.98	93	H248611	6.5	19	0.02	0.35	80	5.08	
124.82	127.86	3.04	3.04	100	H248612	5.5	19	0.08	0.16	88	10.20	
127.86	130.91	3.05	3.01	99	H248613	6.0	19	0.02	0.17	210	25.20	
130.91	133.21	2.30	2.16	94	H248614	4.0	19	<0.01	0.08	53	3.39	
133.21	135.64	2.43	2.43	100	H248615	5.0	19	0.03	0.08	512	401.00	
135.64	138.68	3.04	3.04	100	H248616	6.0	19	0.01	0.08	351	119.00	
138.68	140.21	1.53	1.44	94	H248617	2.5	19	0.01	0.01	369	122.50	
140.21	143.26	3.05	3.05	100	H248618	6.0	19	<0.01	<0.01	84	4.94	
143.26	145.82	2.56	2.53	99	H248619	5.0	19	<0.01	<0.01	179	16.65	
145.82	147.83	2.01	1.93	96	H248620	3.5	19	<0.01	<0.01	114	5.97	
-	-	-			H247408	0.3	17	0.47	0.88	5920	111.00	Standard R-1
-	-	-			H247415	4.0	17	<0.01	0.01	13	0.82	Blank
-	-	-			H247420	0.3	18	5.50	0.19	>10000	443.00	Standard R-3
-	-	-			H247434	4.0	18	0.01	0.01	19	1.45	Blank
92.20	93.73	1.53	0.40	26	H247440	0.3	18	1.69	17.95	8210	354.00	Duplicate
-	-	-			H247443	4.0	18	<0.01	0.08	55	1.92	Blank
-	-	-			H247445	0.3	18	0.44	0.80	5790	117.00	Standard R-1
-	-	-			H248605	4.0	19	<0.01	0.05	13	0.26	Blank
-	-	-			H248607	0.3	19	5.43	0.24	>10000	500.00	Standard R-3
118.57	121.62	3.05	2.96	97	H248610	2.5	19	0.02	0.19	149	9.87	Duplicate

DENSITY LOG

HOLE: Rau-09-33

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
40.16	LST			14.9	4.2	599.0	378.4	2.90	2.72
45.53	LST			14.9	4.2	600.2	378.4	2.91	2.71
122.80	DOL			15.2	4.2	605.4	393.2	2.87	2.85
134.45	DOL			15.2	4.2	620.1	408.2	2.94	2.93
136.80	DOL			15.0	4.2	627.7	418.6	3.02	3.00
137.50	DOL			15.0	4.2	659.1	450.1	3.17	3.15

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-33

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
2.00	LST		0.04	
3.00	LST		0.02	
4.00	LST		0.04	
5.00	LST		0.69	
6.00	LST		0.02	
7.00	LST		0.04	
8.00	LST		0.02	
9.00	LST		0.02	
10.00	LST		0.04	
11.00	LST		0.02	
12.00	LST		0.04	
13.00	LST		0.12	
14.00	LST		0.00	
15.00	LST		0.02	
16.00	LST		0.04	
17.00	LST		0.04	
18.00	LST		0.02	
19.00	LST		0.00	
20.00	LST		0.02	
21.00	LST		0.06	
22.00	LST		0.02	
23.00	LST		0.16	
24.00	LST		0.04	
25.00	LST		0.02	
26.00	LST		0.02	
27.00	LST		0.04	
28.00	LST		0.04	
29.00	LST		1.16	
30.00	LST		0.02	
31.00	LST		0.02	
32.00	LST		0.02	
33.00	LST		0.20	
34.00	LST		0.00	
35.00	LST		0.00	
36.00	LST		0.04	
37.00	LST		0.04	
38.00	LST		0.30	
39.00	LST		0.57	
40.00	LST		0.02	
41.00	LST		0.00	
42.00	LST		0.04	
43.00	LST		0.06	
44.00	LST		0.02	
45.00	LST		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
46.00	LST		0.00	
47.00	LST		0.00	
48.00	LST		0.00	
49.00	LST		0.02	
50.00	LST		0.04	
51.00	LST		0.04	
52.00	LST		0.04	
53.00	LST		0.08	
54.00	LST		0.08	
55.00	LST		0.06	
56.00	DOL	ALT	0.22	
57.00	DOL	ALT	1.23	
58.00	DOL	ALT	0.71	
59.00	DOL	ALT	0.28	
60.00	VOL	ALT	0.16	
61.00	VOL	ALT	0.06	
62.00	VOL	ALT	0.22	
63.00	VOL	ALT	0.16	
64.00	VOL	ALT	0.10	
65.00	VOL	ALT	0.04	
66.00	VOL	ALT	2.80	
67.00	VOL	ALT	0.34	
68.00	VOL		0.30	
69.00	VOL		0.18	
70.00	VOL		0.16	
71.00	VOL		0.04	
72.00	VOL		0.04	
73.00	VOL		2.89	
74.00	VOL		0.06	
75.00	VOL		0.16	
76.00	VOL		0.18	
77.00	OX		0.51	
78.00	OX		1.72	
79.00	OX		0.41	
80.00	VOL	ALT	3.28	
81.00	VOL	ALT	0.28	
82.00	VOL	ALT	0.24	
83.00	VOL	ALT	0.32	
84.00	VOL	ALT	0.16	
85.00	OX		0.16	
86.00	OX		0.20	
87.00	OX		0.20	
88.00	OX		0.26	
89.00	OX		0.59	
90.00	OX		0.28	
91.00	OX		0.22	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
92.00	OX		0.45	
93.00	OX		0.34	
94.00	OX		0.36	
95.00	OX		1.02	
96.00	OX		0.08	
97.00	OX		0.47	
98.00	OX		0.34	
99.00	OX		0.41	
100.00	OX		0.28	
101.00	OX		2.78	
102.00	OX		0.51	
103.00	OX		0.36	
104.00	OX		1.35	
105.00	OX		0.24	
106.00	DOL	ALT	0.18	
107.00	DOL	ALT	1.02	
108.00	DOL	ALT	0.14	
109.00	DOL	ALT	0.10	
110.00	DOL	ALT	0.77	
111.00	DOL	ALT	0.04	
112.00	DOL	ALT	0.04	
113.00	DOL	ALT	0.26	
114.00	DOL	ALT	0.06	
115.00	DOL	ALT	0.04	
116.00	DOL		0.10	
117.00	DOL		0.02	
118.00	DOL		0.14	
119.00	DOL		0.14	
120.00	DOL		0.10	
121.00	DOL		0.10	
122.00	DOL		0.04	
123.00	DOL		0.10	
124.00	DOL		0.36	
125.00	DOL		0.04	
126.00	DOL		0.06	
127.00	DOL		0.22	
128.00	DOL		0.51	
129.00	DOL		0.06	
130.00	DOL		0.10	
131.00	DOL		0.34	
132.00	DOL		0.12	
133.00	DOL		0.14	
134.00	DOL		0.08	
135.00	DOL		0.20	
136.00	DOL		0.69	
137.00	DOL		0.26	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
138.00	DOL		0.12	
139.00	DOL		0.10	
140.00	DOL		0.28	
141.00	DOL		0.14	
142.00	DOL		0.14	
143.00	DOL		0.32	
144.00	DOL		0.14	
145.00	DOL		0.32	
146.00	DOL		0.10	
147.00	DOL		0.38	

BOX LOG

HOLE: Rau-09-33

BOX	FROM (m)	TO (m)
1	1.50	6.19
2	6.19	12.13
3	12.13	17.89
4	17.89	23.05
5	23.05	28.40
6	28.40	33.97
7	33.97	39.28
8	39.28	44.64
9	44.64	50.00
10	50.00	57.25
11	57.25	63.10
12	63.10	69.65
13	69.65	75.55
14	75.55	83.40
15	83.40	90.22
16	90.22	97.23
17	97.23	103.78
18	103.78	108.94
19	108.94	113.87
20	113.87	119.05
21	119.05	124.32
22	124.32	129.51
23	129.51	135.05
24	135.05	140.44
25	140.44	145.82
26	145.82	147.83
	147.83	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+250W

HOLE: Rau-09-34
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528379	7119275	1331.47	121.31

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 6.10 (m) out

Drilling dates: July 14 - 18, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.15	3.15	OVB	
3.15	45.00	41.85	LST	
45.00	50.85	5.85	OX	Clay rich
50.85	55.78	4.93	OX	Rubbly
55.78	58.03	2.25	OX	Altered
58.03	64.92	6.89	OX	
64.92	69.49	4.57	DOL	Altered
69.49	84.73	15.24	OX	
84.73	95.54	10.81	OX	Rubbly
95.54	112.17	16.63	DOL	Altered
112.17	118.26	6.09	OX	
118.26	121.31	3.05	OX	Clay rich

SAMPLES

Numbers: H248621-H248668, H248689-H248690
Batches 19, 20, 21
Total: 50
Date sent:
Certificate: VA09068430, VA09074778, VA09075566

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-34

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.15	3.15	OVB																			
3.15	45.00	41.85	LST	RBL	BN								MBL	m								Medium grey banded slightly marbleized limestone, very rubbly with rounded to sub-rounded fragments occurring with the maximum fragment length of ~45 cm. Possible very old landslide or fault??
																						Small zones of orange-brown clay (most likely altered carbonate) occur at 16.40-17.58 m, 20.42-20.45 m, 24.10-24.15 m, 24.46-24.48 m.
																						Bedding on fragments varies widely from 10, 35, 50 65, 70.
																						25.30-26.80 m: Zone of light yellow-brown clay coating fractures and the core.
																						43.30-43.65 m: Zone of medium brown clay gouge.
45.00	50.85	5.85	OX	CLY		CN	70															Medium brown to orange-brown clay encasing rare gritty fragments. All throughout there are light yellow-brown areas ~1 cm in diameter that possibly represent a brecciated mix of volcaniclastic and previously mineralized dolomite. Sharp contact with upper unit at 70 deg to CA.
																						45.22-46.63 m: Clay is medium brown with weak sand-grit sized fragments.
																						46.63 m: Orange-brown clay with trace to weak sand-grit sized pieces of bull quartz and a green-grey platy mineral (volcaniclastic?)
50.85	55.78	4.93	OX	RBL																		Dark reddish-brown oxide clay with fragments of limonite sand to 6 cm sized fragments. Very little clay holds the fragments together so the unit is quite rubbly in appearance.
																						52.50 m: Dark brown/black fragment with slightly yellow stained quartz. Volcaniclastic (?)
55.78	58.03	2.25	OX	ALT																		Yellow/green alteration of blue-grey rubble. The core is slightly heavier than expected. (COLOUR: 5Y 7/3 - pale yellow)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						57.30-58.03 m: There is a slight increase in the extent of alteration.
58.03	64.92	6.89	OX																			Medium to dark red-brown oxide mostly competent limonite fragments with zones of grit and clay. Fractured surfaces of the more competent limonite fragments show a banded texture between dark red-brown and black limonite fragments and medium orange-red-brown oxide powder. 35% limonite fragments, 65% oxide gritty clay and rubble. (COLOUR 5YR 5/6 - yellowish red).
																						58.03-59.10 m: Slightly yellow-orange-brown oxide fragments. Faint honey-comb texture and colouration on fractured surfaces suggests the protolith would be medium to course grained dolomite. The centre of the comb represents the dolomite crystal, and the outside may represent sulphide.
																						63.15m: 2 cm by 2 cm pocket filled with very dark brown/black slightly vitreous mineral with concoidal fracture (goethite?).
																						NOTE! At 63.40- there is 35 cm of limestone rubble mixed with light brown clay. This material most likely fell in from above when the rods were pulled. None of this material was sampled or taken into account during geotechnical measurements.
64.92	69.49	4.57	DOL	ALT	FO	FO	40								w							Medium to coarse grained dolomite with moderate light brown alteration and weak, medium grained, sub-euhedral, strongly oxidized pyrite crystals. Very faint foliation of the dolomite crystals occurs at 40 deg to CA. 2 mm Ca veins cut the dolomite at 15 and 55 deg to CA.
						VN	15															
						VN	55	350														

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
69.49	84.73	15.24	OX			VN	60															Dark brown angular limonite fragments with an orange to orange-red powder coating of the fractures. Can see faint stockwork style texture at 60 deg to CA in the oxide, as well as other textures.
																						70.20 m: Soft brown fragment fizzes strongly with acid.
																						70.22 m: Angular quartz crystals occur in place.
																						73.15-73.79 m: Medium brown clay zone with mino grit and no sizable rock fragments. It is possible that this is not in place, that it may have fallen down the hole???? Was sampled anyway. (COLOUR 7.5YR 4/6 - strong brown.)
																						73.79-78.64 m: Medium to dark brown limonite fragments with yellowy-orange-brown and orange-red-brown oxide powder coatings on fractures. (COLOUR 5yr 3/3 dark reddish brown)
																						78.12-78.70 m: a zone of limonite fragments that are held together with yellowy-orange clay. Can see elongate pockets filled with bright orange powder within the dark red brown competent limonite/siderite. (COLOUR 10 YR 5/8 - yellow brown)
																						78.70-79.33 m: Very hard, dense limonite with yellowy-orange-brown powder coating fractures and also filling some vugs exposed where the core was broken.
																						79.33-81.69 m: Limonite rubble with medium red-brown clay and powder holding fragments together. Pockets of slightly pink-red-brown (hematite ?) powder occurs sporadically.
																						78.64-80.16 m: Very dark brown-black limonite zone. Quite rubbly and crumbly. (COLOUR 7.5 YR 2.5/1 - black). Pale greenish grey coloured coating occurs on some fractures. Can see faint honeycomb texture of the oxide.
																						80.16-81.82 m: Medium orange-red-brown oxide rubble with little to no clay. The fragments are all very rounded (COLOUR 7.5 YR 5/8 - Strong brown)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						81.82-83.21 m: Medium brown gritty clay (fizzes slightly with acid) with 2-3% sub-rounded banded limestone fragments *possibly was down the hole from above? Recovery in this interval was not >100% but it could be replacing a gap in recovery?* (COLOUR 7.5 YR 4/3 - brown)
																						83.21-84.73 m: Chocolate brown with a hint of red oxide clay with weak gritty fragments including quartz. Fizzes slightly with acid (COLOUR 7.5 YR 3/4)
84.73	95.54	10.81	OX	RBL																		Very dark red-brown-black siderite rich rubble zone. Fragments are very angular and vuggy/pitted and very hard. 6
																						84.25-84.50 m: Orange-brown with yellow-orange patches
																						90.83 m: Yellow-orange clay (5 cm)
																						93.88-95.54 m: Fractured surfaces have a green-grey colour outer surface is red-brown with some coarse grained quartz crystals intergrown. Can see a clear honeycomb texture between oxidized dolomite and sulphides.
95.54	112.17	16.63	DOL	ALT		BD	60					s			w							Oxidized dolomite. Coarse grained dolomite texture is present in some pieces, but others are more of a dark grey limestone or too altered to distinguish. All fizz fragments slightly with acid. Oxidized medium grained subhedral grains are visible in some dolomite fragments. Faint banding in the oxide occurs at 60 deg to CA. Overall chocolate brown in colour (COLOUR 7.5 YR 4/2 - brown)
112.17	118.26	6.09	OX																			Slightly yellow, orange-medium brown clay with minor red-brown, blue-grey fragments ~1 cm long and 1/2 cm wide. Yellow mica flakes are scattered throughout (COLOUR 7.5 YR 5/8 - strong brown)
118.26	121.31	3.05	OX	CLY																		Dark brown slightly gritty clay sections fizz slightly with acid. Altered carbonate.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						121.31 m: E.O.H.

GEOTECHNICAL LOG

HOLE: Rau-09-34

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.15	3.96	0.81	0.81	100	0.24	30	S	SW	
3.96	5.49	1.53	0.25	16	0.00	0	S	SW	
5.49	7.01	1.52	1.24	82	0.15	10	S	SW	
7.01	8.53	1.52	1.22	80	0.22	14	S	SW	
8.53	10.06	1.53	1.20	78	0.35	23	S	SW	
10.06	11.58	1.52	0.92	61	0.57	38	S	SW	
11.58	13.11	1.53	1.21	79	0.30	20	S	SW	
13.11	14.63	1.52	0.60	39	0.00	0	S	SW	
14.63	16.15	1.52	0.92	61	0.00	0	S	SW	
16.15	17.68	1.53	0.83	54	0.00	0	S	SW	
17.68	19.20	1.52	0.63	41	0.00	0	S	SW	
19.20	20.73	1.53	0.88	58	0.00	0	S	SW	
20.73	22.25	1.52	1.00	66	0.00	0	S	SW	
22.25	23.77	1.52	1.35	89	0.20	13	S	SW	
23.77	25.30	1.53	1.39	91	0.53	35	S	SW	
25.30	26.82	1.52	1.08	71	0.24	16	S	SW	
26.82	28.35	1.53	1.05	69	0.20	13	S	SW	
28.35	29.87	1.52	1.03	68	0.14	9	S	SW	
29.87	31.39	1.52	0.76	50	0.00	0	S	SW	
31.39	32.92	1.53	1.05	69	0.12	8	S	SW	
32.92	34.44	1.52	0.92	61	0.00	0	S	SW	
34.44	35.97	1.53	0.92	60	0.21	14	S	SW	
35.97	37.49	1.52	0.88	58	0.10	7	S	SW	
37.49	39.01	1.52	0.90	59	0.11	7	S	SW	
39.01	40.54	1.53	0.55	36	0.00	0	S	SW	
40.54	42.06	1.52	0.30	20	0.00	0	S	SW	
42.06	43.59	1.53	0.89	58	0.00	0	S	SW	
43.59	45.11	1.52	0.55	36	0.16	11	S	SW	
45.11	46.63	1.52	0.82	54	0.00	0	EW	EW	
46.63	48.16	1.53	1.48	97	0.00	0	EW	EW	
48.16	49.68	1.52	1.43	94	0.00	0	EW	EW	
49.68	51.21	1.53	1.29	84	0.00	0	EW	EW	
51.21	52.73	1.52	1.08	71	0.00	0	EW	EW	
52.73	54.25	1.52	1.40	92	0.00	0	EW	EW	
54.25	55.78	1.53	1.00	65	0.00	0	EW	EW	
55.78	57.30	1.52	0.72	47	0.00	0	EW	EW	
57.30	58.83	1.53	1.23	80	0.00	0	EW	EW	
58.83	60.35	1.52	1.52	100	0.00	0	EW	EW	
60.35	61.87	1.52	1.22	80	0.00	0	EW	EW	
61.87	63.40	1.53	0.78	51	0.00	0	EW	EW	
63.40	64.92	1.52	1.00	66	0.00	0	EW	EW	
64.92	66.44	1.52	0.50	11	0.41	9	EW	EW	
66.44	67.97	1.53	1.20	78	0.00	0	EW	EW	
67.97	69.49	1.52	0.00	0	0.00	0	EW	EW	
69.49	71.02	1.53	1.53	100	0.00	0	EW	EW	
71.02	72.54	1.52	0.51	34	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.06	1.52	0.87	57	0.00	0	EW	EW	
74.06	75.59	1.53	1.48	97	0.00	0	EW	EW	
75.59	77.11	1.52	1.24	82	0.23	15	EW	EW	
77.11	78.64	1.53	1.42	93	0.00	0	EW	EW	
78.64	80.16	1.52	1.10	72	0.00	0	EW	EW	
80.16	83.21	3.05	2.25	74	0.00	0	EW	EW	
83.21	84.73	1.52	0.79	52	0.00	0	EW	EW	
84.73	86.26	1.53	1.08	71	0.10	7	EW	EW	
86.26	87.78	1.52	0.25	16	0.00	0	EW	EW	
87.78	90.83	3.05	0.12	4	0.00	0	EW	EW	
90.83	93.88	3.05	0.24	8	0.00	0	EW	EW	
93.88	96.93	3.05	1.85	61	0.65	21	VW	HW	
96.93	99.97	3.04	0.41	13	0.00	0	VW	HW	
99.97	103.02	3.05	0.15	5	0.00	0	VW	HW	
103.02	106.07	3.05	0.40	13	0.00	0	VW	HW	
106.07	109.12	3.05	0.24	8	0.17	6	VW	HW	
109.12	112.17	3.05	0.32	10	0.00	0	EW	EW	
112.17	115.21	3.04	0.50	16	0.00	0	EW	EW	
115.21	118.26	3.05	0.85	28	0.00	0	EW	EW	
118.26	121.31	3.05	0.25	8	0.00	0	EW	EW	
	121.31	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-34

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
22.25	25.30	3.05	2.52	83	H248621	8.0	19	0.02	0.13	71	0.29	
25.30	26.82	1.52	1.12	74	H248622	3.0	19	<0.01	0.13	206	0.50	
26.82	29.87	3.05	2.71	89	H248623	6.0	19	0.01	0.15	123	0.20	
29.87	32.92	3.05	1.61	53	H248625	5.0	19	0.01	0.24	48	0.15	
32.92	35.97	3.05	1.70	56	H248626	5.0	19	0.01	0.19	126	0.84	
35.97	39.01	3.04	1.49	49	H248627	5.0	19	0.01	0.26	157	0.70	
39.01	42.06	3.05	2.30	75	H248628	2.5	19	0.02	0.26	157	0.94	
42.06	45.00	2.94	1.52	52	H248629	3.5	19	0.02	1.73	122	2.05	
45.00	46.63	1.63	0.85	52	H248630	2.0	19	1.67	4.13	1800	700.00	
46.63	48.16	1.53	1.52	99	H248631	4.0	19	10.85	2.80	7110	774.00	
48.16	50.85	2.69	2.13	79	H248632	8.0	19	1.91	5.60	6720	424.00	
50.85	52.73	1.88	1.57	84	H248633	3.5	19	1.59	3.08	>10000	407.00	
52.73	55.78	3.05	2.51	82	H248635	8.5	19	4.65	2.48	>10000	324.00	
55.78	58.03	2.25	1.46	65	H248636	3.0	19	8.94	63.80	>10000	2440.00	
58.03	59.10	1.07	0.97	91	H248637	3.0	19	2.95	3.41	>10000	4400.00	
59.10	61.87	2.77	2.41	87	H248638	5.5	20	5.36	0.89	>10000	2320.00	
61.87	63.40	1.53	0.80	52	H248639	2.0	20	13.65	1.18	>10000	786.00	
63.40	64.92	1.52	1.09	72	H248641	2.5	20	10.35	0.34	>10000	467.00	
64.92	66.44	1.52	0.50	33	H248642	1.5	20	0.20	0.07	7740	281.00	
66.44	67.97	1.53	1.05	69	H248643	2.5	20	0.41	1.07	>10000	396.00	
67.97	70.10	2.13	0.64	30	H248644	1.0	20	0.56	3.08	>10000	195.00	
70.10	70.74	0.64	0.64	100	H248645	3.5	20	8.41	17.05	>10000	507.00	
70.74	72.54	1.80	0.78	43	H248646	2.0	20	0.94	4.55	>10000	177.50	
72.54	75.65	3.11	2.40	77	H248647	7.0	20	1.52	2.03	>10000	349.00	
75.65	78.64	2.99	2.57	86	H248648	6.5	20	1.50	0.99	>10000	249.00	
78.64	80.16	1.52	1.14	75	H248651	3.5	20	0.14	1.14	>10000	95.30	
80.16	81.82	1.66	1.11	67	H248653	2.5	20	0.12	8.25	>10000	77.60	
81.82	83.21	1.39	1.20	86	H248654	4.0	20	4.71	12.75	>10000	299.00	
83.21	84.73	1.52	0.78	51	H248655	3.5	20	4.54	349.00	>10000	576.00	
84.73	86.26	1.53	1.03	67	H248657	4.0	20	0.30	7.41	>10000	47.50	
86.26	87.78	1.52	0.28	18	H248658	1.0	20	0.17	5.36	>10000	24.80	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
87.78	90.83	3.05	0.17	6	H248659	0.5	20	0.15	4.03	>10000	15.70	
90.83	93.88	3.05	0.26	9	H248660	1.0	20	0.49	5.70	>10000	250.00	
93.88	95.54	1.66	0.56	34	H248661	1.5	20	3.15	12.50	>10000	151.50	
95.54	96.93	1.39	1.34	96	H248662	3.0	20	0.39	1.72	2420	51.20	
96.93	99.97	3.04	0.45	15	H248663	1.0	20	0.13	0.63	2330	215.00	
99.97	103.02	3.05	0.19	6	H248664	1.0	20	0.26	1.65	8050	259.00	
103.02	106.07	3.05	0.42	14	H248665	1.0	20	0.32	1.77	3320	15.50	
106.07	109.12	3.05	0.24	8	H248666	1.0	20	0.04	0.32	815	1.63	
109.12	112.17	3.05	0.37	12	H248667	1.0	20	0.61	3.01	7390	238.00	
112.17	115.21	3.04	0.47	15	H248668	1.0	20	1.94	7.65	8420	545.00	
115.21	118.26	3.05	0.70	23	H248689	1.0	21	1.48	2.73	8360	218.00	
118.26	121.31	3.05	0.25	8	H248690	0.5	21	1.77	9.81	5480	927.00	
-	-	-			H248624	0.3	19	1.50	1.77	>10000	376.00	Standard R-2
-	-	-			H248634	4.0	19	0.01	0.03	22	1.26	Blank
-	-	-			H248640	4.0	20	0.01	0.01	37	1.27	Blank
75.65	78.64	2.99	2.57	86	H248649	5.5	20	0.86	1.38	>10000	242.00	Duplicate
-	-	-			H248650	0.3	20	5.38	0.22	>10000	466.00	Standard R-3
-	-	-			H248652	4.0	20	<0.01	0.01	31	0.32	Blank
-	-	-			H248656	0.3	20	0.52	0.90	5960	106.50	Standard R-1

DENSITY LOG

HOLE: Rau-09-34

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
11.58	LST	RBL		15.0	6.1	1253.0	788.6	2.95	2.70

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-34

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.00	LST	RBL	0.01	
5.00	LST	RBL	0.01	
6.00	LST	RBL	0.05	
7.00	LST	RBL	0.01	
8.00	LST	RBL	0.20	
9.00	LST	RBL	0.01	
10.00	LST	RBL	0.03	
11.00	LST	RBL	0.23	
12.00	LST	RBL	0.03	
13.00	LST	RBL	0.01	
14.00	LST	RBL	0.01	
15.00	LST	RBL	0.05	
16.00	LST	RBL	0.13	
17.00	LST	RBL	0.01	
18.00	LST	RBL	0.01	
19.00	LST	RBL	0.20	
20.00	LST	RBL	0.05	
21.00	LST	RBL	0.05	
22.00	LST	RBL	0.06	
23.00	LST	RBL	0.03	
24.00	LST	RBL	0.15	
25.00	LST	RBL	0.00	
26.00	LST	RBL	0.11	
27.00	LST	RBL	0.01	
28.00	LST	RBL	0.03	
29.00	LST	RBL	0.03	
30.00	LST	RBL	0.01	
31.00	LST	RBL	0.11	
32.00	LST	RBL	0.08	
33.00	LST	RBL	0.05	
34.00	LST	RBL	0.35	
35.00	LST	RBL	0.03	
36.00	LST	RBL	0.03	
37.00	LST	RBL	0.16	
38.00	LST	RBL	0.08	
39.00	LST	RBL	0.06	
40.00	LST	RBL	0.11	
41.00	LST	RBL	0.03	
42.00	LST	RBL	0.01	
43.00	LST	RBL	0.20	
44.00	LST	RBL	0.16	
45.00	LST	RBL	0.03	
46.00	OX	CLY	0.48	
47.00	OX	CLY	0.33	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
48.00	OX	CLY	0.73	
49.00	OX	CLY	0.53	
50.00	OX	CLY	0.43	
51.00	OX	RBL	0.57	
52.00	OX	RBL	0.50	
53.00	OX	RBL	0.45	
54.00	OX	RBL	0.42	
55.00	OX	RBL	0.53	
56.00	OX	ALT	1.00	
57.00	OX	ALT	0.84	
58.00	OX	ALT	0.67	
59.00	OX		0.72	
60.00	OX		0.68	
61.00	OX		0.43	
62.00	OX		0.31	
63.00	OX		0.38	
64.00	OX		0.52	
65.00	DOL	ALT	0.25	
66.00	DOL	ALT	0.38	
67.00	DOL	ALT	0.42	
68.00	DOL	ALT	0.82	
69.00	DOL	ALT	0.48	
70.00	OX		0.77	
71.00	OX		0.33	
72.00	OX			
73.00	OX		0.48	
74.00	OX		0.48	
75.00	OX		0.70	
76.00	OX		0.65	
77.00	OX		0.72	
78.00	OX		0.70	
79.00	OX		0.97	
80.00	OX		0.52	
81.00	OX		0.60	
82.00	OX		0.68	
83.00	OX		0.45	
84.00	OX		6.24	
85.00	OX	RBL	1.15	
86.00	OX	RBL	0.40	
87.00	OX	RBL	1.09	
88.00	OX	RBL	0.48	
89.00	OX	RBL	0.75	
90.00	OX	RBL	0.06	
91.00	OX	RBL	0.21	
92.00	OX	RBL	0.68	
93.00	OX	RBL	0.70	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
94.00	OX	RBL	0.62	
95.00	OX	RBL	0.16	
96.00	DOL	ALT	0.18	
97.00	DOL	ALT	0.25	
98.00	DOL	ALT	0.33	
99.00	DOL	ALT	0.30	
100.00	DOL	ALT	0.52	
101.00	DOL	ALT	0.13	
102.00	DOL	ALT	0.20	
103.00	DOL	ALT	0.42	
104.00	DOL	ALT	0.06	
105.00	DOL	ALT	0.20	
106.00	DOL	ALT	2.13	
107.00	DOL	ALT	0.15	
108.00	DOL	ALT	0.08	
109.00	DOL	ALT	0.20	
110.00	DOL	ALT	0.33	
111.00	DOL	ALT	0.20	
112.00	DOL	ALT	0.21	
113.00	OX		0.33	
114.00	OX		0.26	
115.00	OX		0.70	
116.00	OX		0.35	
117.00	OX		0.62	
118.00	OX		0.35	
119.00	OX	CLY	0.30	
120.00	OX	CLY	0.20	
121.00	OX	CLY	0.45	

HOLE: Rau-09-34

BOX	FROM (m)	TO (m)
1	3.15	8.53
2	8.53	13.45
3	13.45	20.35
4	20.35	24.60
5	24.60	29.10
6	29.10	33.75
7	33.75	39.60
8	39.60	46.75
9	46.75	51.21
10	51.21	55.78
11	55.78	60.58
12	60.58	67.50
13	67.50	73.85
14	73.85	78.90
15	78.90	80.16
16	80.16	84.20
17	84.20	96.85
18	96.85	115.46
19	115.46	121.31
	121.31	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+200W

HOLE: Rau-09-35
CLAIM: Rau 54

Easting	Northing	Elev.	Depth (m)
528464	7119286	1332	221.29

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-90	compass				

Core size: BTW
Casing depth: 3.05 (m) out

Drilling dates: July 15 - 17, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.00	1.00	OVB	
1.00	33.35	32.35	LST	Fossiliferous, brecciated
33.35	77.62	44.27	LST	Fossiliferous, banded
77.62	79.30	1.68	MBL	
79.30	101.41	22.11	VOL	
101.41	129.54	28.13	LST	Altered
129.54	131.30	1.76	OX	Rubbly
131.30	148.60	17.30	LST	Altered
148.60	153.92	5.32	QZ	Quartz +/- Dolomite vein
153.92	170.59	16.67	LST	Altered
170.59	174.25	3.66	PY	Semi-massive to massive pyrite
174.25	185.95	11.70	SHL	
185.95	221.28	35.33	LST	Rubbly

SAMPLES

Numbers: H884536-H884567, H884791-H884811
Batch 27, 34
Total: 53
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-35

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.00	1.00	OVB																			
1.00	33.35	32.35	LST	FOS	BX MO																	Medium grey very slightly fossiliferous limestone with a mixture of solution collapse breccia, and mottled camo limestone. Fossils occur as trace crinoid stem fragments. The breccia has a solution texture with very irregular rounded to sub-angular clasts from 0.2-3 cm. The camo texture is created by irregular sub-rounded light and medium grey ~1 cm spots. It is possible that the spots represent minor alteration. Fractures occasionally have polished graphitic surfaces. At 28.22 m within a 10 cm calcite vein a pocket of black powdery carbon occurs.
33.35	77.62	44.27	LST	FOS	BN	BD	50								w							Medium grey banded limestone with intervals of ligh to medium grey (0.1-20 cm wide) gritty zones. Trace (<1 %) crinoid stem fragments occur. Graphitic zones occur throughout. The structural deformation appears to be the same as bedding.
										w												33.53-36.80 m: Brown-grey gritty limestone zone. When looked at closely there is fine grained patchy yellow-tan sericite patches that occur between the grains. At 35.50 m this brown grit becomes interlayered with dark grey fossiliferous limestone. Very fine grained pyrite is disseminated throughout.
																						36.90-37.00 m: There is a 10 cm zone of white rice shaped calcareous spots- fossils or trace fossils?? (a similar zone occurs in hole 33).
																						41.30-48.40 m: Black graphitic layers are intermixed with grey limestone and light grey gritty limestone. This zone appears to be strongly structurally deformed in roughly the same orientatio as bedding. Thicker graphitic zones (2-3 cm) are vuggy looking.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						53.20-55.37 m: Quite massive medium grey limestone with faint gritty pale grey zones. (5% overall).
																						55.30-58.00 m: Medium to dark grey banded limestone with graphitic layers 0.1-3 cm thick. These layers are slightly more recessive and vuggy
77.62	79.30	1.68	MBL			CN	60								w							Light grey marble. Most primary structures and textures have been wiped out. Slightly pink tinted beds occur at 60 deg to CA. The lower contact is very sharp at 60 deg to CA. Pyrite occurs as disseminations and patches within. Weak overall.
						BD	60															
79.30	101.41	22.11	VOL		FO	FO	40								t		ms					Grey-green volcaniclastic with a slightly spotted texture. Pyrrhotite occurs as very fine grained disseminations throughout. Some zones are more concentrated as the magnetic susceptibility reveals. Ca patches and zones range from 0.1-1.5 cm. Overall the unit has a strong banded fabric at 40 de to CA.
									f													86.75 m: Begin to get weak to moderate sericite alteration along bands. Very thin <1 mm Ca filled fractures occur until 88.50 m.
															w							93.40 m: Alteration/bleaching of the volcaniclastic introduces sericite bands as well as bleaches the core to a pale purple-brown colour. Pyrite starts occurring as fine disseminations and small patches at 100.17 m.
						CN	40															The lower contact is very sharp at 40 deg to CA.
101.41	129.54	28.13	LST	ALT	BN	BD	40		f						m							Medium grey fairly dolomitized limestone very faintly bedded at 40 deg to CA with coarse grained dolomite veins cutting most commonly at 40 deg to CA. These veins range in size from 0.5-10 cm wide. Pyrite occurs as very fine grained and disseminated and in more concentrated zones surrounding the dolomite veins.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
					BX	VN	40															109.72-111.40 m: Fluid collapse brecciated zone with a very irregular texture.
																						111.40-127.90 m: Begin to get Qz+/- Dol veins that are typically a mix of bull quartz and coarse grained dolomite. These veins are slightly stained pink/red via hematite fracture fill. The concentration of these veins increases towards the bottom of the interval.
																						127.90-129.54 m: Very rubbly zone.
129.54	131.30	1.76	OX	RBL																		Slightly orange medium brown oxide rubble with yellow-orange powdery coatings on some fractured surfaces. The zone is a mixture of brown gritty clay and almost black (limonite?) fragments.
131.30	148.60	17.30	LST	ALT	BX				m				He	f	m							Medium grey moderately dolomitized solution collapse/crackle brecciated limestone. Pyrite occurs as massive bands 1-2 cm thick as well as small patches and disseminations throughout.
																						131.30-133.15 m: Extremely rubbly zone with quite strong hematization on fractured surfaces as well as staining on the dolomite.
																						133.15-141.05 m: Strongly fluid collapse brecciated limestone with overprinting crackle breccia texture. Weak to strong orange-red to purple-red hematite occurs mostly on fractured surfaces, but as well as a faint tint of the dolomite.
																						141.05-143.20 m: Zone of only mild fluid brecciation. No hematite alteration.
148.60	153.92	5.32	QZ												f							Massive Qz-Dol vein. Quartz is white and very coarse grained. Dol is white to slightly peachy-orange tinted. 80% quartz, 20% dolomite. Pyrite occurs as medium to coarse grained sub to euhedral crystals as well as very concentrated patches.
																						150.60-153.92 m: Rubbly zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															ms							152.25-153.92 m: Pyrite dramatically increases in concentration as semi-massive to massive zones.
153.92	170.59	16.67	LST	ALT	BN	BD	60		m													Medium to dark grey thinly banded, moderately dolomitized limestone. The beds are 1-3 mm thick and are interbanded with white calcite at 60 deg to CA. Pyrite occur banded and as fine grained disseminations throughout. Thin 1-5 mm calcite veins cut bedding at 30-65 deg to CA.
						VN	30	350														Coarse grained Qz-Dol veins cut the limestone at low angles to the CA in the following locations: 158.35-159.05 m, 161.97-162.78 m, 163.08-163.30 m, 163.83-163.95 m, 164.40-166.08 m, and 166.90-169.46 m.
170.59	174.25	3.66	MX												70			Sp	f			Semi-massive to massive pyrite with a few 1 mm calcite veins with associated red sphalerite. The pyrite has a banded appearance.
						BD	60															170.59-172.51 m: Semi-massive pyrite banded with black muddy limestone. Bedding occurs at 60 deg to CA until 171.70 m when it becomes 20 deg.
						BD	10															172.36: Bedding is 10 deg to CA.
																						172.39: a 2 cm wide cherty horizon occurs.
						BD	40								85			Sp	w			172.51-174.25 m: Massive pyrite with cross cutting sphalerite-calcite veinlets at 40 deg to CA. Slight banded texture at 40 deg to CA. Pyrite is very fine to fine grained.
						VN	40															
174.25	185.95	11.70	SHL												f							Banded black shale (?) quite hard, does not fizz normally or when scratched as with dolomitized limestone (?) Pyrite occurs finely disseminated and in concentrated patches associated with the white calcite layers.
															f							174.25-180.31 m: Zone of fluid brecciation with a very irregular 'fluid' texture. It is very hard, just barely or not at all able to be scratched with a nail.
										f					f							177.50-178.20 m: Yellow-green (sericite?) crackle infilling.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	10								m							178.20-185.95 m: Strong structural fabric stretching the rock at 10 deg to CA. Pyrite concentration is higher in this zone than in the brecciated zone, and is concentrated in the white layers.
						FO	20															183.5 m: The foliation steepens slightly to 20 deg to CA.
185.95	221.28	35.33	LST	RBL	BX										f			Sp	w			Very dark grey to black quite hard fluid brecciated muddy limestone. Intervals within this unit are extremely rubbly. Pyrite occurs generally as patches associated around the white carbonate rich areas. Sphalerite occurs most commonly in rubbly zones where intense brecciation has occurred.
																						185.95-196.10 m: Intensely rubbly zone associated with strong fluid collapse brecciation. Dark grey clay occurs in some areas. Red sphalerite occurs on fractures and within the calcite matrix of the breccia.
																						Semi-massive-massive zones of pyrite occur (5-10 cm).
																						Lower 1.5 m fractures are very graphitic.
						FO	40															197.36 m: Foliation occurs at 40 deg to CA.
															w							Pyrite concentration decreases to weak around 200 m.
																						207.35-221.28 m: Rubbly zone with graphite on fractures. At 217.78 m, there is an increase in the amount of carbonated involved in the brecciation.
																						222.28 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-35

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.00	1.52	0.52	0.52	100	0.14	27	MS	SW	
1.52	1.98	0.46	0.36	78	0.23	50	MS	SW	
1.98	2.44	0.46	0.24	52	0.00	0	MS	SW	
2.44	3.35	0.91	0.79	87	0.15	16	MS	SW	
3.35	3.81	0.46	0.31	67	0.00	0	MS	SW	
3.81	4.57	0.76	0.70	92	0.10	13	MS	SW	
4.57	5.49	0.92	0.92	100	0.00	0	MS	SW	
5.49	5.64	0.15	0.05	33	0.00	0	MS	SW	
5.64	5.79	0.15	0.15	100	0.00	0	MS	SW	
5.79	6.40	0.61	0.61	100	0.11	18	MS	SW	
6.40	7.32	0.92	0.91	99	0.18	20	MS	SW	
7.32	8.84	1.52	1.52	100	1.00	66	MS	FR	
8.84	10.52	1.68	1.56	93	1.33	79	MS	FR	
10.52	12.19	1.67	1.51	90	1.09	65	MS	FR	
12.19	13.72	1.53	1.53	100	1.40	92	MS	FR	
13.72	15.24	1.52	1.41	93	0.91	60	MS	FR	
15.24	16.76	1.52	1.49	98	1.25	82	MS	FR	
16.76	18.29	1.53	1.53	100	0.86	56	MS	FR	
18.29	19.81	1.52	1.43	94	1.44	95	MS	FR	
19.81	21.34	1.53	1.49	97	1.33	87	MS	FR	
21.34	22.86	1.52	1.52	100	0.75	49	MS	FR	
22.86	24.38	1.52	1.52	100	0.90	59	MS	FR	
24.38	25.91	1.53	1.53	100	0.82	54	MS	FR	
25.91	27.43	1.52	1.52	100	0.64	42	MS	FR	
27.43	28.96	1.53	1.53	100	0.76	50	MS	FR	
28.96	30.48	1.52	1.52	100	0.76	50	MS	FR	
30.48	32.00	1.52	1.52	100	1.38	91	MS	FR	
32.00	33.53	1.53	1.53	100	1.18	77	MS	FR	
33.53	35.05	1.52	1.51	99	1.07	70	MS	FR	
35.05	36.58	1.53	1.50	98	1.38	90	MS	FR	
36.58	38.10	1.52	1.52	100	1.33	87	MS	FR	
38.10	39.62	1.52	1.51	99	1.48	97	MS	FR	
39.62	41.15	1.53	1.53	100	1.44	94	MS	FR	
41.15	42.67	1.52	1.50	99	2.98	196	MS	FR	
42.67	44.20	1.53	1.50	98	1.45	95	MS	FR	
44.20	45.72	1.52	1.38	91	0.75	49	MS	FR	
45.72	48.77	3.05	3.05	100	1.85	61	MS	FR	
48.77	49.83	1.06	1.06	100	0.68	64	MS	FR	
49.83	51.51	1.68	1.51	90	0.89	53	MS	FR	
51.51	52.12	0.61	0.61	100	0.00	0	MS	FR	
52.12	54.86	2.74	2.72	99	0.97	35	MS	FR	
54.86	56.54	1.68	1.56	93	1.12	67	MS	FR	
56.54	59.44	2.90	2.87	99	2.82	97	MS	FR	
59.44	62.48	3.04	3.04	100	2.78	91	MS	FR	
62.48	65.53	3.05	3.05	100	2.87	94	MS	FR	
65.53	68.58	3.05	3.05	100	3.05	100	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
68.58	71.63	3.05	3.05	100	3.01	99	MS	FR	
71.63	74.68	3.05	3.05	100	2.97	97	MS	FR	
74.68	77.72	3.04	3.04	100	2.74	90	MS	FR	
77.72	80.47	2.75	2.75	100	1.81	66	MS	FR	
80.47	83.52	3.05	3.05	100	2.92	96	MS	FR	
83.52	86.56	3.04	3.04	100	2.59	85	MS	FR	
86.56	89.76	3.20	3.11	97	2.22	69	MS	FR	
89.76	91.59	1.83	1.83	100	1.83	100	MS	FR	
91.59	94.49	2.90	2.87	99	2.26	78	MS	FR	
94.49	97.54	3.05	3.05	100	2.38	78	MS	FR	
97.54	100.58	3.04	3.04	100	2.70	89	MS	FR	
100.58	103.63	3.05	3.03	99	2.51	82	MS	FR	
103.63	106.68	3.05	3.05	100	2.78	91	MS	FR	
106.68	109.72	3.04	3.04	100	2.56	84	MS	FR	
109.72	112.77	3.05	3.05	100	3.05	100	MS	FR	
112.77	115.82	3.05	3.05	100	2.46	81	MS	FR	
115.82	118.87	3.05	3.05	100	2.68	88	MS	FR	
118.87	121.92	3.05	3.05	100	1.25	41	MS	FR	
121.92	124.96	3.04	2.89	95	1.77	58	MS	FR	
124.96	128.01	3.05	3.02	99	2.30	75	MS	FR	
128.01	129.54	1.53	1.53	100	0.00	0	MS	SW	
129.54	130.75	1.21	1.21	100	0.00	0	EW	HW	
130.75	132.89	2.14	2.14	100	0.00	0	VW	SW	
132.89	135.63	2.74	2.74	100	2.16	79	MS	SW	
135.63	138.68	3.05	3.05	100	2.25	74	MS	SW	
138.68	141.73	3.05	3.05	100	2.07	68	MS	FR	
141.73	144.78	3.05	3.05	100	2.65	87	MS	FR	
144.78	147.82	3.04	3.04	100	2.64	87	MS	FR	
147.82	150.87	3.05	3.01	99	2.49	82	MS	FR	
150.87	153.92	3.05	3.05	100	1.25	41	MS	FR	
153.92	156.97	3.05	3.05	100	1.31	43	MS	FR	
156.97	160.02	3.05	3.05	100	2.25	74	MS	FR	
160.02	163.06	3.04	2.99	98	2.30	76	MS	FR	
163.06	166.11	3.05	3.05	100	1.37	45	MS	FR	
166.11	168.86	2.75	2.75	100	0.38	14	MS	FR	
168.86	171.30	2.44	2.44	100	1.31	54	MS	FR	
171.30	172.36	1.06	1.06	100	1.00	94	MS	FR	
172.36	173.89	1.53	1.53	100	0.89	58	MS	FR	
173.89	175.41	1.52	1.52	100	0.20	13	MS	FR	
175.41	178.31	2.90	2.90	100	1.19	41	MS	FR	
178.31	181.36	3.05	3.05	100	2.33	76	MS	FR	
181.36	184.25	2.89	2.89	100	2.48	86	MS	FR	
184.25	186.39	2.14	2.14	100	1.39	65	MS	FR	
186.39	186.99	0.60	0.55	92	0.00	0	W	FR	
186.99	188.00	1.01	1.01	100	0.00	0	W	FR	
188.00	188.82	0.82	0.58	71	0.00	0	W	FR	
188.82	189.59	0.77	0.77	100	0.00	0	W	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
189.59	191.11	1.52	1.52	100	0.12	8	W	FR	
191.11	192.02	0.91	0.90	99	0.12	13	W	FR	
192.02	193.85	1.83	1.75	96	0.00	0	W	FR	
193.85	194.92	1.07	0.75	70	0.00	0	W	FR	
194.92	197.36	2.44	2.44	100	0.85	35	W	FR	
197.36	199.64	2.28	2.28	100	1.14	50	MS	FR	
199.64	202.69	3.05	3.01	99	2.25	74	MS	FR	
202.69	205.74	3.05	3.05	100	2.01	66	MS	FR	
205.74	208.03	2.29	2.29	100	0.54	24	MS	FR	
208.03	209.55	1.52	1.52	100	0.15	10	MS	FR	
209.55	210.31	0.76	0.76	100	0.00	0	MS	FR	
210.31	211.53	1.22	1.22	100	0.10	8	MS	FR	
211.53	212.14	0.61	0.61	100	0.00	0	MS	FR	
212.14	213.36	1.22	1.15	94	0.00	0	MS	FR	
213.36	213.97	0.61	0.13	21	0.00	0	MS	FR	
213.97	214.58	0.61	0.61	100	0.28	46	MS	FR	
214.58	214.88	0.30	0.23	77	0.00	0	MS	FR	
214.88	217.78	2.90	2.90	100	0.69	24	MS	FR	
217.78	220.83	3.05	3.05	100	2.14	70	MS	FR	
220.83	221.28	0.45	0.45	100	0.00	0	MS	FR	
	221.28	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-35

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
77.62	79.30	1.68	1.68	100	H884536	3.5	27	0.01	0.12	36	0.26	
79.30	82.00	2.70	2.52	93	H884537	5.5	27	0.02	0.18	50	0.22	
82.00	85.00	3.00	3.00	100	H884538	6.0	27	0.01	0.18	38	0.13	
95.50	98.50	3.00	3.00	100	H884539	5.5	27	<0.01	0.14	11	0.54	
98.50	101.41	2.91	2.90	100	H884541	5.5	27	0.03	0.11	47	1.83	
101.41	103.63	2.22	2.20	99	H884542	4.0	27	0.01	0.11	33	2.09	
103.63	106.68	3.05	3.05	100	H884543	5.5	27	0.03	0.12	37	5.02	
106.68	109.72	3.04	3.04	100	H884544	5.5	27	0.09	0.19	76	19.30	
109.72	111.40	1.68	1.47	87	H884545	3.0	27	0.06	0.13	57	4.70	
111.40	114.50	3.10	3.10	100	H884546	6.5	27	0.05	0.17	51	8.60	
114.50	117.43	2.93	2.91	99	H884549	6.0	27	0.12	0.20	105	14.50	
117.43	120.43	3.00	2.88	96	H884550	6.0	27	0.81	2.01	310	55.00	
120.43	123.48	3.05	3.05	100	H884551	7.0	27	2.02	36.00	449	138.00	
123.48	126.27	2.79	2.60	93	H884552	5.5	27	0.05	0.70	203	49.20	
126.27	127.90	1.63	1.63	100	H884553	4.0	27	0.03	0.28	174	9.71	
127.90	129.54	1.64	1.64	100	H884554	3.0	27	0.08	0.43	261	15.20	
129.54	131.30	1.76	1.76	100	H884555	4.0	27	0.18	1.22	2070	245.00	
131.30	133.15	1.85	1.85	100	H884557	4.0	27	0.26	0.39	384	63.30	
133.15	136.00	2.85	2.81	99	H884558	6.0	27	0.02	0.28	222	517.00	
136.00	138.68	2.68	2.85	106	H884559	5.5	27	0.01	0.16	113	3.55	
138.68	141.05	2.37	2.31	97	H884560	4.5	27	0.10	0.19	165	4.68	
141.05	143.20	2.15	2.13	99	H884561	4.0	27	0.03	0.23	87	59.90	
143.20	146.00	2.80	2.86	102	H884562	7.0	27	0.03	0.31	269	503.00	
146.00	148.60	2.60	2.56	98	H884563	5.5	27	0.03	0.16	96	8.70	
148.60	150.60	2.00	1.93	97	H884565	3.5	27	0.03	0.05	256	37.90	
150.60	153.92	3.32	1.32	40	H884566	7.5	27	0.10	0.14	354	78.40	
153.92	156.20	2.28	2.28	100	H884567	5.5	27	0.02	0.34	204	727.00	
156.20	159.20	3.00	3.00	100	H884791	6.0	34	0.02	0.18	180	32.50	
159.20	162.20	3.00	2.97	99	H884792	5.5	34	0.02	0.27	146	21.00	
162.20	165.20	3.00	3.00	100	H884793	6.0	34	0.03	3.75	241	58.80	
165.20	168.20	3.00	2.70	90	H884795	5.0	34	0.07	29.70	449	117.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
168.20	170.59	2.39	2.28	95	H884796	5.0	34	0.03	5.68	161	27.00	
170.59	172.51	1.92	1.92	100	H884797	4.5	34	0.08	42.30	1780	205.00	
172.51	174.25	1.74	1.74	100	H884798	5.0	34	0.09	15.65	2440	145.50	
174.25	177.50	3.25	3.25	100	H884800	5.5	34	0.01	0.55	88	6.02	
177.50	178.20	0.70	0.70	100	H884801	1.0	34	0.01	0.43	217	0.65	
178.20	180.31	2.11	2.08	99	H884802	3.5	34	<0.01	0.26	74	0.73	
180.31	182.60	2.29	2.29	100	H884803	4.0	34	0.02	0.21	60	0.55	
182.60	185.95	3.35	3.35	100	H884804	6.5	34	0.02	0.32	53	2.30	
185.95	188.82	2.87	2.12	74	H884805	5.0	34	0.07	46.70	886	174.50	
188.82	191.11	2.29	2.24	98	H884806	4.0	34	0.02	12.40	377	51.00	
191.11	193.85	2.74	2.55	93	H884807	6.0	34	0.04	39.60	1065	193.00	
193.85	196.10	2.25	1.91	85	H884808	3.0	34	<0.01	5.13	478	40.20	
196.10	198.00	1.90	1.90	100	H884809	3.5	34	0.03	0.24	60	2.53	
198.00	200.00	2.00	2.00	100	H884810	4.0	34	0.01	0.18	30	7.03	
200.00	202.69	2.69	2.61	97	H884811	4.5	34	<0.01	0.10	9	0.99	
-	-	-			H884540	0.3	27	0.44	0.81	5350	89.00	Standard R-1
-	-	-			H884547	4.0	27	<0.01	0.12	<5	0.15	Blank
111.40	114.50	3.10	3.10	100	H884548	3.0	27	0.06	0.13	51	10.50	Duplicate
-	-	-			H884556	5.0	27	<0.01	0.08	<5	0.52	Blank
-	-	-			H884564	0.3	27	5.52	0.25	37900	458.00	Standard R-3
-	-	-			H884794	0.3	34	1.58	1.65	>10000	317.00	Standard R-2
-	-	-			H884799	4.0	34	0.01	0.19	11	0.72	Blank

DENSITY LOG

HOLE: Rau-09-35

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
10.05	LST	FOS		15.2	4.2	585.5	375.3	2.78	2.79
29.00	LST	FOS		14.7	4.2	514.9	317.1	2.53	2.60
36.20	LST	FOS		15.0	4.2	537.2	330.7	2.58	2.60
40.54	LST	FOS		14.9	4.2	565.8	360.0	2.74	2.75
64.05	LST	FOS		14.8	4.2	602.2	382.3	2.94	2.74
75.15	LST	FOS		14.6	4.2	594.8	376.9	2.94	2.73
81.00	VOL			14.8	4.2	659.6	438.3	3.22	2.98
96.21	VOL			14.9	4.2	618.3	397.8	3.00	2.80
103.25	LST	ALT		14.9	4.2	634.0	412.6	3.07	2.86
112.15	LST	ALT		14.8	4.2	636.8	418.2	3.11	2.91
146.50	LST	ALT		15.0	4.2	629.5	407.6	3.03	2.84
159.00	LST	ALT		14.8	4.2	658.8	439.0	3.21	3.00
169.35	LST	ALT		14.8	4.2	649.0	426.2	3.17	2.91
172.90	PY	MX		14.8	4.2	1021.6	800.2	4.98	4.61
179.55	SHL			15.2	4.2	602.5	377.4	2.86	2.68
201.85	LST	RBL		14.7	4.2	614.2	399.6	3.02	2.86
218.43	LST	RBL		14.9	4.2	599.0	382.8	2.90	2.77

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-35

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00	LST	FOS	0.00	
2.00	LST	FOS	0.00	
3.00	LST	FOS	0.02	
4.00	LST	FOS	0.02	
5.00	LST	FOS	0.02	
6.00	LST	FOS	0.06	
7.00	LST	FOS	0.08	
8.00	LST	FOS	0.10	
9.00	LST	FOS	0.04	
10.00	LST	FOS	0.00	
11.00	LST	FOS	0.00	
12.00	LST	FOS	0.00	
13.00	LST	FOS	0.12	
14.00	LST	FOS	0.00	
15.00	LST	FOS	0.00	
16.00	LST	FOS	0.00	
17.00	LST	FOS	0.02	
18.00	LST	FOS	0.00	
19.00	LST	FOS	0.00	
20.00	LST	FOS	0.04	
21.00	LST	FOS	0.00	
22.00	LST	FOS	0.02	
23.00	LST	FOS	0.12	
24.00	LST	FOS	0.02	
25.00	LST	FOS	0.04	
26.00	LST	FOS	0.04	
27.00	LST	FOS	0.02	
28.00	LST	FOS	0.06	
29.00	LST	FOS	0.02	
30.00	LST	FOS	0.02	
31.00	LST	FOS	0.00	
32.00	LST	FOS	0.00	
33.00	LST	FOS	0.26	
34.00	LST	FOS	0.08	
35.00	LST	FOS	0.73	
36.00	LST	FOS	0.04	
37.00	LST	FOS	0.12	
38.00	LST	FOS	0.02	
39.00	LST	FOS	0.06	
40.00	LST	FOS	0.04	
41.00	LST	FOS	0.04	
42.00	LST	FOS	0.02	
43.00	LST	FOS	0.02	
44.00	LST	FOS	0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
45.00	LST	FOS	0.06	
46.00	LST	FOS	0.08	
47.00	LST	FOS	0.34	
48.00	LST	FOS	0.06	
49.00	LST	FOS	0.36	
50.00	LST	FOS	0.20	
51.00	LST	FOS	0.59	
52.00	LST	FOS	0.02	
53.00	LST	FOS	0.08	
54.00	LST	FOS	0.02	
55.00	LST	FOS	0.06	
56.00	LST	FOS	0.04	
57.00	LST	FOS	0.04	
58.00	LST	FOS	0.04	
59.00	LST	FOS	0.08	
60.00	LST	FOS	0.04	
61.00	LST	FOS	0.28	
62.00	LST	FOS	0.16	
63.00	LST	FOS	0.22	
64.00	LST	FOS	0.06	
65.00	LST	FOS	0.04	
66.00	LST	FOS	0.04	
67.00	LST	FOS	0.02	
68.00	LST	FOS	0.16	
69.00	LST	FOS	0.02	
70.00	LST	FOS	0.02	
71.00	LST	FOS	0.12	
72.00	LST	FOS	0.14	
73.00	LST	FOS	0.06	
74.00	LST	FOS	0.04	
75.00	LST	FOS	0.04	
76.00	LST	FOS	0.08	
77.00	LST	FOS	0.04	
78.00	MBL		0.16	
79.00	MBL		0.41	
80.00	VOL		1.08	
81.00	VOL		45.70	
82.00	VOL		250.00	
83.00	VOL		3.52	
84.00	VOL		5.22	
85.00	VOL		71.80	
86.00	VOL		43.80	
87.00	VOL		67.70	
88.00	VOL		48.80	
89.00	VOL		200.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
90.00	VOL		73.20	
91.00	VOL		112.00	
92.00	VOL		0.34	
93.00	VOL		0.88	
94.00	VOL		1.14	
95.00	VOL		0.41	
96.00	VOL		0.55	
97.00	VOL		0.65	
98.00	VOL		0.22	
99.00	VOL		0.10	
100.00	VOL		0.20	
101.00	VOL		0.24	
102.00	LST	ALT	0.26	
103.00	LST	ALT	0.06	
104.00	LST	ALT	0.14	
105.00	LST	ALT	0.06	
106.00	LST	ALT	0.06	
107.00	LST	ALT	0.10	
108.00	LST	ALT	0.12	
109.00	LST	ALT	0.16	
110.00	LST	ALT	0.10	
111.00	LST	ALT	0.02	
112.00	LST	ALT	0.04	
113.00	LST	ALT	0.10	
114.00	LST	ALT	0.04	
115.00	LST	ALT	0.04	
116.00	LST	ALT	0.00	
117.00	LST	ALT	0.18	
118.00	LST	ALT	0.12	
119.00	LST	ALT	0.22	
120.00	LST	ALT	0.18	
121.00	LST	ALT	0.06	
122.00	LST	ALT	0.06	
123.00	LST	ALT	0.06	
124.00	LST	ALT	0.08	
125.00	LST	ALT	0.30	
126.00	LST	ALT	0.61	
127.00	LST	ALT	0.20	
128.00	LST	ALT	0.14	
129.00	LST	ALT	0.04	
130.00	OX	RBL	0.16	
131.00	OX	RBL	0.18	
132.00	LST	ALT	0.06	
133.00	LST	ALT	0.32	
134.00	LST	ALT	0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
135.00	LST	ALT	0.12	
136.00	LST	ALT	0.49	
137.00	LST	ALT	0.14	
138.00	LST	ALT	0.04	
139.00	LST	ALT	0.14	
140.00	LST	ALT	0.06	
141.00	LST	ALT	0.04	
142.00	LST	ALT	0.04	
143.00	LST	ALT	0.04	
144.00	LST	ALT	0.14	
145.00	LST	ALT	0.12	
146.00	LST	ALT	0.08	
147.00	LST	ALT	0.04	
148.00	LST	ALT	0.32	
149.00	QZ		0.02	
150.00	QZ		0.00	
151.00	QZ		0.00	
152.00	QZ		0.00	
153.00	QZ		0.04	
154.00	LST	ALT	0.06	
155.00	LST	ALT	0.06	
156.00	LST	ALT	0.28	
157.00	LST	ALT	0.12	
158.00	LST	ALT	0.06	
159.00	LST	ALT	0.06	
160.00	LST	ALT	0.16	
161.00	LST	ALT	0.06	
162.00	LST	ALT	0.24	
163.00	LST	ALT	0.06	
164.00	LST	ALT	1.10	
165.00	LST	ALT	0.04	
166.00	LST	ALT	0.04	
167.00	LST	ALT	0.00	
168.00	LST	ALT	0.04	
169.00	LST	ALT	0.16	
170.00	LST	ALT	0.04	
171.00	PY		0.04	
172.00	PY		0.02	
173.00	PY		0.06	
174.00	PY		0.10	
175.00	SHL		0.12	
176.00	SHL		0.08	
177.00	SHL		0.02	
178.00	SHL		0.32	
179.00	SHL		0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
180.00	SHL		0.04	
181.00	SHL		0.10	
182.00	SHL		0.12	
183.00	SHL		0.04	
184.00	SHL		0.04	
185.00	SHL		0.12	
186.00	LST	RBL	0.24	
187.00	LST	RBL	0.69	
188.00	LST	RBL	0.20	
189.00	LST	RBL	1.59	
190.00	LST	RBL	0.10	
191.00	LST	RBL	0.10	
192.00	LST	RBL	0.08	
193.00	LST	RBL	0.08	
194.00	LST	RBL	0.14	
195.00	LST	RBL	0.14	
196.00	LST	RBL	0.16	
197.00	LST	RBL	0.06	
198.00	LST	RBL	0.20	
199.00	LST	RBL	0.04	
200.00	LST	RBL	0.08	
201.00	LST	RBL	0.02	
202.00	LST	RBL	0.04	
203.00	LST	RBL	0.04	
204.00	LST	RBL	0.02	
205.00	LST	RBL	0.02	
206.00	LST	RBL	0.02	
207.00	LST	RBL	0.08	
208.00	LST	RBL	0.08	
209.00	LST	RBL	0.06	
210.00	LST	RBL	0.04	
211.00	LST	RBL	0.02	
212.00	LST	RBL	0.08	
213.00	LST	RBL	0.30	
214.00	LST	RBL	0.00	
215.00	LST	RBL	0.06	
216.00	LST	RBL	0.02	
217.00	LST	RBL	0.00	
218.00	LST	RBL	0.06	
219.00	LST	RBL	0.06	
220.00	LST	RBL	0.06	
221.00	LST	RBL	0.08	

BOX LOG

HOLE: Rau-09-35

BOX	FROM (m)	TO (m)
1	1.00	6.32
2	6.32	11.92
3	11.92	17.32
4	17.32	22.86
5	22.86	28.22
6	28.22	33.53
7	33.53	39.16
8	39.16	44.65
9	44.65	50.02
10	50.02	55.38
11	55.38	61.10
12	61.10	66.76
13	66.76	72.50
14	72.50	78.21
15	78.21	83.82
16	83.82	89.56
17	89.56	94.56
18	94.56	100.17
19	100.17	105.77
20	105.77	111.63
21	111.63	117.43
22	117.43	123.19
23	123.19	128.87
24	128.87	133.63
25	133.63	139.26
26	139.26	144.92
27	144.92	150.87
28	150.87	156.20
29	156.20	161.97
30	161.97	167.20
31	167.20	172.29
32	172.29	177.45
33	177.45	182.96
34	182.96	187.88
35	187.88	192.50

BOX	FROM (m)	TO (m)
36	192.50	197.71
37	197.71	202.69
38	202.69	208.03
39	208.03	212.14
40	212.14	217.03
41	217.03	221.28
	221.98	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 10+200W

HOLE: Rau-09-36
CLAIM: Rau 98f

Easting	Northing	Elev.	Depth (m)
528441	7119266	1823	192.02

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-65	compass				

Core size: BTW
Casing depth: 7.62 (m) out

Drilling dates: July 18 - 20, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.35	1.35	OVB	
1.35	16.93	15.58	LST	Fossiliferous
16.93	18.14	1.21	LST	Altered
18.14	19.93	1.79	VOL	Altered
19.93	20.72	0.79	OX	Rubbly
20.72	46.03	25.31	LST	Altered
46.03	61.05	15.02	OX	Clay rich and rubbly
61.05	81.23	20.18	LST	Altered with interfingered volcaniclastic
81.23	93.36	12.13	OX	Clay rich
93.36	97.34	3.98	DOL	Mineralized
97.34	99.37	2.03	VOL	
99.37	112.78	13.41	LST	Brecciated
112.78	123.73	10.95	LEP	Volcaniclastic
123.73	137.55	13.82	DOL	Mineralized
137.55	153.07	15.52	LST	Altered
153.07	181.69	28.62	LEP	Volcaniclastic
181.69	192.02	10.33	LST	Altered

SAMPLES

Numbers: H248669-H248688, H248697-H248739
Batches 21, 22
Total: 69
Date sent:
Certificate: VA09075566, VA09076283

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-36

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.35	1.35	OVB																			
1.35	16.93	15.58	LST	FOS	BN	BD	50															Medium grey banded limestone with trace crinoid stem fragments. Lighter grey slightly gritty intervals occur within the interbands at 50 deg to CA. Occasional medium orange-brown gouge occurs on fractures.
																						11.54-16.00 m: The bedding becomes slightly convoluted.
16.93	18.14	1.21	LST	ALT																		Dark chocolate brown extremely iron carbonate altered fragments and grit limestone that fizz strongly with acid.
18.14	19.93	1.79	VOL	ALT	FO	FO	30			I												Intensely sericite altered yellow-orange volcaniclasti with strong foliation. Entire unit has pretty much turned to clay. Foliation occurs at 30 deg to CA. Gradational lower contact.
19.93	20.72	0.79	OX	RBL		BD	10															Medium to dark brown with orange-brown powder coatings replacing bands within the dark brown oxide. Orange - replaced sulphides, brown - replaced carbonate (?). (COLOUR - 7.5 5/6 - Strong brown).
20.72	46.03	25.31	LST	ALT		VN	50															Intermixed grey fluid brecciated limestone with varying degrees of alteration up to complete clay oxide that fizzes to varying degrees. Zones rich in quartz rubble occur.
																						20.72-21.47 m: Medium brown gritty clay with sub-angular fragments of very broken down limestone. Unit fizzes strongly with acid. (COLOUR: 10YR - 4/6 dark yellowish brown).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	50															21.47-31.60 m: Medium grey limestone with an irregular fluid flow texture with altered grit and clay zones that fizz moderately with acid. The altered zones are medium grey-brown in colour. Begin to see quartz fragments, angular to sub-angular and sand sized to ~1.5 cm. At 30 cm see yellow mica flakes throughout. 35% unaltered, 65% altered. The limestone has irregular Ca veinlets cutting the breccia commonly at 50 deg to CA.
																						31.60-36.40 m: Zone rich in angular to sub-angular quartz fragments. Up to 6 cm long.
													SID	I								36.80-37.00 m: Dark red brown siderite rubble zone.
																						37.00-46.03 m: Increase in the carbonate alteration of the limestone. 25% unaltered, 75% altered.
46.03	61.05	15.02	OX	CLY																		Orange-red-brown oxide rubble and clay zone with goethite like crystals within. At 47.45 m occasional quartz crystal fragments, angular to sub-angular and occur as 5%.
				RBL																		49.50-50.29 m: Dark red-purple hematite rich zone.
																						51.60-52.27 m: Altered medium grey limestone breccia with clasts 0.3-2 cm, angular to sub-angular. Ca matrix is stained orange-red-brown in parts.
																						56.62-57.91 m: Medium orange-brown oxide rubble with 5% angular quartz fragments, sand sized to 1 cm. (COLOUR-7.5 YR 4/6).
																						58.06-58.60 m: Green-grey clay zone (volcaniclastic?) with red-brown limonite zone and bands of pink (hematization ?) (COLOUR 5 Y -olive)
																						60.90-61.05 m: Extremely quartz rich rubbly zone 60% angular quartz sand to 4 cm in size. 40% altered dolomite rubble.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
61.05	81.23	20.18	LST	ALT	BX	BD	50		m			I	He	m								Brecciated medium grey limestone and dolomitized limestone with varying degrees of alteration from moderately showing orange-brown alteration of carbonate to intensely altered orange-red-brown zones of rubbly and compacted clay. There appear to be a moderate amount of hematite as zones appear pink-red in colour. Few original structures and textures can be distinguished. At 66.40 m- bedding appears at 50 deg to CA. Thin layers of green-grey very altered volcaniclastic clay occur interfingered with the altered carbonates. Localized quartz fragments occur but overall - weak. The entire unit fizzes moderately to strongly with acid. Patches of red- hematite stained zones occur - 3%.
									m													61.05-64.60 m: Moderately dolomitized slightly green to medium grey brecciated limestone. Medium to dark brown rubbly more altered zone occurs from 63.63-63.35 m.
									m													64.60-69.78 m: Moderately to strongly carbonate altered dolomitized limestone. The zone is a mix of small (5-10 cm) sections of limestone (rock) 5% and gritty clay. Overall medium red-brown in colour. Fractured surfaces reveal some bands - represented by variations in the colour of the alteration. The bright orange-bands probably represent oxidized sulphides.
			VOL			FO	80															69.78-70.45 m: Intensely clay altered green-grey volcaniclastic with foliation at 80 deg to CA. Slight orange alteration in pockets.
					BX	CN	50															70.45-75.89 m: Brecciated limestone with varying degrees of alteration. Strong red/purple hematite alteration occurs from 71.17-71.70 m. Breccia clasts are angular to subangular up to 1.5 cm in diameter.
																						72.85-74.05 m: Very heavily altered but still fizzes strongly with acid. Medium to dark brown in colour. The entire interval is slightly rubbly.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
			VOL			FO	70															75.89-76.62 m: Blue-green-grey highly altered volcaniclastic. Foliation recognizable on freshly fractured surfaces at 70 deg to CA.
81.23	93.36	12.13	OX	CLY																		Very uniform orange-red brown altered carbonate gritty clay. Entire unit fizzes moderately with acid. Fractured surfaces occasionally show spotted texture with dark brown spots (altered dolomite and yellow-orange infill - oxidized sulphides (?)) Variation in colour ranges from yellow-orange, orange-brown, to red-brown. Most commonly, medium orange-red-brown.
																						82.91-83.92 m: Yellow mica flakes scattered throughout slightly rubbly zone. (COLOUR 5 YR 3/4 - dark reddish brown).
93.36	97.34	3.98	DOL	MX											s	f						Coarse grained dolomite with medium to coarse grained crystals of arsenopyrite and pyrite. Semi-massive to massive bands occur typically 3-5 cm thick. The dolomite is fairly to moderately altered, probably more of a stain from slight oxidation of the sulphides and less dolomitization. Alteration of the dolomite is orange-brown in colour (COLOUR: 5YR-/6 - yellowish red). The higher the sulphide concentration the more altered the dolomite becomes. Transition between oxide and sulphide is quite quick and evenly gradational.
																						95.67-95.86 m: Semi-massive to massive zone of pyrite and minor arsenopyrite.
97.34	99.37	2.03	VOL			CN	60															Greenish-grey, gritty, very uniform volcaniclastic tuff. Upper contact is sharp at 60 deg to CA , lower contact is rubbly. Non altered

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
99.37	112.78	13.41	LST	ALT	BX										w							Medium grey fluid collapse brecciated limestone wit slight alteration of the unit to a orangy- brown tint. Gritty intervals exist, 10-15 cm wide, may be fingers of the volcaniclastic above. Overall the unit is moderately rubbly. Weak disseminated pyrite occurs scattered throughout, as well as within a few concentrated patches ~ 1/2 cm wide.
						VN	50		ms						t							101.35-106.80 m: Moderately fluid brecciated dolomitized limestone. Ca veins cutting at 50 deg to CA. Pyrite occurs as weak to trace disseminations and patches.
						FR	40															106.80-112.78 m: More massive dolomitized limestone with yellowish brown bleaching/alteration surrounding some fractures at 40 deg to CA.
112.78	123.73	10.95	LEP							w					w					Mag	w	Medium grey leopard printed volcaniclastic with a slight foliation at 60 deg to CA. Within the unit there are zones of concentrated magnetite grains while the rest of the unit has weak grains scattered throughout. Magnetic susceptibility log gives a good indication of where magnetite becomes more concentrated. Sericite alteration occurs as thin stringers and patches in some zones.
															f							112.78-117.72 m: Zones of quite concentrated sericite alteration. Light brown to greenish brown in colour. Pyrite occurs as fine disseminations and scattered patches throughout. Magnetite is weak.
																						117.72-123.73 m: Less altered leopard print limestone with fair very fine grained disseminated pyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
123.73	137.55	13.82	DOL	MX		BD	50								m					Mag	f	Coarse grained dolomite with zones of massive and semi-massive fine grained pyrite. Pyrite also occurs as medium to coarse grained disseminated crystals within the dolomite. Slight banded texture at 50 deg to CA. Zones of marble occur which contain mixed magnetite layers .
															25							123.73-132.43 m: Coarse grained dolomite with ~25% pyrite.
										s					f					Mag	w	132.43-133.63 m: Zones of quite intense sericite alteration
															w					Mag	ms	133.63-137.55 m: Zone with dominant marble horizons and swirly looking magnetite horizons.
137.55	153.07	15.52	LST	ALT	FO	FO	65			w										Mag	f	Medium grey limestone with patches and stringers of green-grey sericite. Fine grained magnetite flakes occur throughout but decrease in concentration towards the bottom of the interval as does the sericite. A very faint foliation occurs at 65 deg to CA. Occasional Ca veins cut at 70 deg to CA ~ parallel to CA.
																						140.91-141.01 m: Coarse grained calcite zone.
153.07	181.69	28.62	LEP			VN	40								t					Mag	t	Medium grained leopard print volcaniclastic. The texture of the spots when looked at closely appear to be medium and dark grey sub-angular to angular clasts in a calcite matrix ~ 50 % Ca, 50% Vol. The size of the 'clasts' varies from ~ 1-3 mm up to ~ 1 cm. Variations in these sizes are extremely gradational. Very small < 1mm dark brown to black biotite crystals occur scattered throughout ~ 10%. They are more concentrated in the zones with a fine texture. A faint foliation occurs at 60 deg represented by a slight elongation of the patches or as bands of different patch size. Trace pyrite occurs along with trace magnetite. 1-3 mm thick calcite veins cut at 40 deg to CA. A few of these veins have fine grained elongate crystals of black tremolite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	60															173.74 m- increase in the amount of biotite grains to 15%. The core in this interval is slightly brown in colour (from the biotite).
181.69	186.63	4.94	LST			VN	10															Medium grey limestone with slight spotted texture. Interval of black shale or mudstone occur with very fine grained patches of pyrite that appear to be replacing Ca veins at 10 and 60 deg to CA. Pyrite is also heavily disseminated.
						VN	60															
186.63	192.02	5.39	LST	ALT	BX	VN	60		m													Medium to dark grey fluid collapse brecciated dolomitized limestone thin Ca veinlets cutting the breccia at 60 deg to CA.
																						192.02 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-36

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.35	1.52	0.17	0.17	100	0.00	0	MS	SW	
1.52	3.05	1.53	0.35	23	0.00	0	MS	SW	
3.05	4.48	1.43	0.44	31	0.00	0	MS	SW	
4.48	6.10	1.62	0.55	34	0.10	6	MS	SW	
6.10	7.62	1.52	0.90	59	0.10	7	MS	SW	
7.62	9.14	1.52	1.05	69	0.81	53	MS	SW	
9.14	10.06	0.92	0.45	49	0.00	0	MS	SW	
10.06	10.98	0.92	0.91	99	0.50	54	MS	SW	
10.98	11.89	0.91	0.73	80	0.55	60	MS	SW	
11.89	13.72	1.83	1.78	97	0.80	44	MS	SW	
13.72	14.94	1.22	1.08	89	0.67	55	MS	SW	
14.94	15.54	0.60	0.60	100	0.20	33	MS	SW	
15.54	16.00	0.46	0.46	100	0.12	26	MS	SW	
16.00	16.76	0.76	0.76	100	0.00	0	MS	SW	
16.76	18.14	1.38	0.68	49	0.00	0	EW	EW	
18.14	18.90	0.76	0.39	51	0.00	0	EW	EW	
18.90	19.20	0.30	0.30	100	0.00	0	EW	EW	
19.20	20.54	1.34	1.10	82	0.00	0	EW	EW	
20.54	21.34	0.80	0.74	92	0.00	0	EW	EW	
21.34	22.25	0.91	0.91	100	0.27	30	W	MW	
22.25	22.86	0.61	0.18	30	0.00	0	W	MW	
22.86	24.38	1.52	1.50	99	0.49	32	W	MW	
24.38	25.15	0.77	0.77	100	0.00	0	W	MW	
25.15	26.21	1.06	0.76	72	0.00	0	W	MW	
26.21	27.13	0.92	0.85	92	0.00	0	W	HW	
27.13	28.35	1.22	0.93	76	0.40	33	W	HW	
28.35	29.11	0.76	0.35	46	0.00	0	W	HW	
29.11	30.48	1.37	1.30	95	0.33	24	W	HW	
30.48	32.00	1.52	1.05	69	0.00	0	EW	EW	
32.00	33.22	1.22	1.14	93	0.00	0	EW	EW	
33.22	34.44	1.22	0.31	25	0.00	0	EW	EW	
34.44	35.66	1.22	0.30	25	0.00	0	EW	EW	
35.66	36.73	1.07	1.07	100	0.00	0	EW	EW	
36.73	39.62	2.89	1.99	69	0.00	0	EW	EW	
39.62	40.84	1.22	1.03	84	0.00	0	EW	EW	
40.84	41.76	0.92	0.92	100	0.00	0	EW	EW	
41.76	42.98	1.22	1.10	90	0.00	0	EW	EW	
42.98	43.74	0.76	0.21	28	0.00	0	EW	EW	
43.74	44.65	0.91	0.90	99	0.00	0	EW	EW	
44.65	45.11	0.46	0.30	65	0.00	0	EW	EW	
45.11	46.18	1.07	0.54	50	0.00	0	EW	EW	
46.18	47.40	1.22	0.84	69	0.00	0	EW	EW	
47.40	48.62	1.22	0.33	27	0.00	0	EW	EW	
48.62	49.38	0.76	0.38	50	0.00	0	EW	EW	
49.38	50.29	0.91	0.27	30	0.00	0	EW	EW	
50.29	51.05	0.76	0.10	13	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
51.05	52.27	1.22	1.22	100	0.43	35	EW	EW	
52.27	53.80	1.53	1.53	100	0.00	0	EW	EW	
53.80	55.17	1.37	1.05	77	0.00	0	EW	EW	
55.17	55.47	0.30	0.30	100	0.00	0	EW	EW	
55.47	56.39	0.92	0.82	89	0.00	0	EW	EW	
56.39	57.91	1.52	1.49	98	0.00	0	EW	EW	
57.91	58.06	0.15	0.14	93	0.00	0	EW	EW	
58.06	60.50	2.44	2.39	98	0.00	0	EW	EW	
60.50	61.72	1.22	1.20	98	0.11	9	W	MW	
61.72	63.09	1.37	1.37	100	0.59	43	W	MW	
63.09	64.01	0.92	0.72	78	0.11	12	VW	HW	
64.01	65.53	1.52	1.52	100	0.11	7	VW	HW	
65.53	66.75	1.22	1.15	94	0.00	0	VW	HW	
66.75	68.28	1.53	1.53	100	0.10	7	VW	HW	
68.28	69.65	1.37	1.24	91	0.00	0	VW	HW	
69.65	70.87	1.22	1.22	100	0.00	0	VW	HW	
70.87	71.17	0.30	0.09	30	0.00	0	VW	HW	
71.17	72.85	1.68	1.68	100	0.20	12	VW	HW	
72.85	74.39	1.54	1.52	99	0.00	0	VW	HW	
74.39	74.83	0.44	0.41	93	0.00	0	VW	HW	
74.83	75.74	0.91	0.79	87	0.00	0	VW	HW	
75.74	77.11	1.37	1.37	100	0.00	0	VW	HW	
77.11	78.33	1.22	1.21	99	0.00	0	VW	HW	
78.33	79.86	1.53	1.53	100	0.51	33	VW	HW	
79.86	81.23	1.37	1.24	91	1.08	79	VW	HW	
81.23	82.91	1.68	1.49	89	0.00	0	EW	EW	
82.91	83.82	0.91	0.53	58	0.00	0	EW	EW	
83.82	85.04	1.22	1.15	94	0.00	0	EW	EW	
85.04	86.87	1.83	1.17	64	0.00	0	EW	EW	
86.87	88.39	1.52	1.41	93	0.00	0	EW	EW	
88.39	89.92	1.53	1.45	95	0.00	0	EW	EW	
89.92	90.07	0.15	0.10	67	0.00	0	EW	EW	
90.07	91.44	1.37	1.11	81	0.00	0	EW	EW	
91.44	92.05	0.61	0.16	26	0.00	0	EW	EW	
92.05	92.96	0.91	0.79	87	0.00	0	EW	EW	
92.96	93.57	0.61	0.29	48	0.00	0	EW	EW	
93.57	95.10	1.53	0.36	24	1.00	65	W	MW	
95.10	96.62	1.52	1.52	100	0.31	20	W	MW	
96.62	98.15	1.53	1.53	100	0.84	55	W	MW	
98.15	99.67	1.52	1.48	97	0.30	20	W	MW	
99.67	101.35	1.68	1.58	94	0.68	40	W	MW	
101.35	102.87	1.52	1.50	99	0.97	64	MS	SW	
102.87	104.39	1.52	1.40	92	0.87	57	MS	SW	
104.39	105.92	1.53	1.53	100	1.12	73	MS	SW	
105.92	107.29	1.37	1.37	100	1.26	92	MS	SW	
107.29	108.51	1.22	1.22	100	0.82	67	MS	SW	
108.51	109.73	1.22	1.17	96	0.86	70	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
109.73	111.25	1.52	1.52	100	1.34	88	MS	SW	
111.25	112.78	1.53	1.53	100	1.40	92	MS	FR	
112.78	114.30	1.52	1.51	99	1.16	76	MS	FR	
114.30	115.82	1.52	1.52	100	1.21	80	MS	FR	
115.82	117.35	1.53	1.52	99	1.17	76	MS	FR	
117.35	118.87	1.52	1.44	95	1.09	72	MS	FR	
118.87	120.40	1.53	1.53	100	1.34	88	MS	FR	
120.40	121.92	1.52	1.52	100	1.31	86	MS	FR	
121.92	123.44	1.52	1.52	100	1.12	74	MS	FR	
123.44	124.97	1.53	1.53	100	1.20	78	MS	FR	
124.97	126.49	1.52	1.52	100	1.44	95	MS	FR	
126.49	128.02	1.53	1.53	100	1.48	97	MS	FR	
128.02	129.54	1.52	1.52	100	1.38	91	MS	FR	
129.54	131.67	2.13	1.20	56	1.60	75	MS	FR	
131.67	133.20	1.53	2.10	137	1.01	66	MS	FR	
133.20	134.11	0.91	0.91	100	0.74	81	MS	FR	
134.11	135.64	1.53	1.45	95	0.75	49	MS	FR	
135.64	137.16	1.52	1.52	100	1.26	83	MS	FR	
137.16	138.68	1.52	1.52	100	1.06	70	MS	FR	
138.68	140.21	1.53	1.53	100	1.08	71	MS	FR	
140.21	141.73	1.52	1.48	97	1.26	83	MS	FR	
141.73	143.26	1.53	1.52	99	1.34	88	MS	FR	
143.26	144.78	1.52	1.52	100	1.25	82	MS	FR	
144.78	146.30	1.52	1.52	100	1.24	82	MS	FR	
146.30	147.83	1.53	1.53	100	1.53	100	MS	FR	
147.83	149.35	1.52	1.52	100	1.38	91	MS	FR	
149.35	150.88	1.53	1.53	100	1.53	100	MS	FR	
150.88	152.40	1.52	1.52	100	1.17	77	MS	FR	
152.40	153.92	1.52	1.52	100	1.52	100	MS	FR	
153.92	155.45	1.53	1.53	100	1.53	100	MS	FR	
155.45	156.97	1.52	1.52	100	1.52	100	MS	FR	
156.97	158.50	1.53	1.53	100	1.40	92	MS	FR	
158.50	160.02	1.52	1.52	100	1.52	100	MS	FR	
160.02	161.54	1.52	1.48	97	1.48	97	MS	FR	
161.54	163.07	1.53	1.53	100	1.51	99	MS	FR	
163.07	164.59	1.52	1.52	100	1.52	100	MS	FR	
164.59	166.12	1.53	1.53	100	1.35	88	MS	FR	
166.12	167.64	1.52	1.52	100	1.45	95	MS	FR	
167.64	169.16	1.52	1.51	99	1.37	90	MS	FR	
169.16	170.69	1.53	1.53	100	1.53	100	MS	FR	
170.69	172.21	1.52	1.52	100	1.45	95	MS	FR	
172.21	173.74	1.53	1.53	100	1.47	96	MS	FR	
173.74	175.26	1.52	1.52	100	1.30	86	MS	FR	
175.26	176.78	1.52	1.51	99	1.31	86	MS	FR	
176.78	178.31	1.53	1.52	99	1.44	94	MS	FR	
178.31	179.83	1.52	1.52	100	1.42	93	MS	FR	
179.83	181.36	1.53	1.52	99	1.52	99	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
181.36	182.88	1.52	1.52	100	1.20	79	MS	FR	
182.88	184.40	1.52	1.52	100	1.52	100	MS	FR	
184.40	185.93	1.53	1.53	100	1.15	75	MS	FR	
185.93	187.45	1.52	1.52	100	0.67	44	MS	FR	
187.45	188.98	1.53	1.53	100	1.29	84	MS	FR	
188.98	190.50	1.52	1.52	100	0.63	41	MS	FR	
190.50	192.02	1.52	1.49	98	0.77	51	MS	FR	
	192.02	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-36

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
9.14	11.89	2.75	2.17	79	H248669	3.5	21	0.03	0.18	38	0.10	
11.89	14.94	3.05	2.86	94	H248670	4.5	21	0.01	0.05	49	0.08	
14.94	16.93	1.99	1.99	100	H248671	3.0	21	0.01	0.09	90	0.31	
16.93	18.14	1.21	0.47	39	H248672	0.5	21	0.22	0.27	1080	25.60	
18.14	19.93	1.79	1.49	83	H248673	2.0	21	0.07	1.30	1605	71.60	
19.93	20.72	0.79	0.61	77	H248674	1.0	21	0.40	2.28	3330	53.40	
20.72	21.47	0.75	0.59	79	H248676	0.5	21	0.05	0.22	1100	25.70	
21.47	24.38	2.91	2.42	83	H248677	4.0	21	0.05	0.11	304	4.35	
24.38	27.13	2.75	2.59	94	H248678	3.0	21	0.09	0.15	604	16.55	
27.13	29.11	1.98	1.31	66	H248679	1.5	21	0.06	0.32	680	28.90	
29.11	31.60	2.49	1.92	77	H248680	2.5	21	0.22	0.39	2130	219.00	
31.60	34.44	2.84	1.84	65	H248681	2.0	21	0.46	1.67	2790	222.00	
34.44	36.40	1.96	1.56	80	H248682	1.0	21	0.62	0.29	6510	302.00	
36.40	38.60	2.20	1.50	68	H248683	1.5	21	1.14	0.27	6290	194.50	
38.60	40.84	2.24	1.85	83	H248684	2.0	21	0.39	0.20	3620	96.40	
40.84	42.98	2.14	2.10	98	H248685	2.5	21	0.53	0.32	1970	117.00	
42.98	43.74	0.76	0.30	39	H248686	0.5	21	0.14	2.33	364	32.00	
43.74	46.03	2.29	1.75	76	H248687	2.0	21	0.22	0.22	1200	25.90	
46.03	47.40	1.37	1.00	73	H248691	1.5	21	26.60	0.80	>10000	1095.00	
47.40	50.29	2.89	1.02	35	H248692	1.0	21	6.19	6.08	>10000	334.00	
50.29	52.27	1.98	1.36	69	H248694	2.0	21	0.95	1.88	6650	40.60	
52.27	55.17	2.90	2.52	87	H248695	4.0	21	4.17	0.23	>10000	208.00	
55.17	57.91	2.74	2.67	97	H248696	4.0	21	11.15	3.55	>10000	433.00	
57.91	60.59	2.68	2.45	91	H248698	4.0	21	3.68	0.50	8570	164.00	
60.59	61.05	0.46	0.46	100	H248699	1.0	21	0.21	0.16	1200	24.50	
61.05	62.79	1.74	1.50	86	H248700	2.5	21	0.21	0.04	331	2.18	
62.79	64.60	1.81	1.81	100	H248701	3.0	21	0.25	0.05	1500	3.16	
64.60	66.75	2.15	2.08	97	H248702	3.0	21	1.11	0.15	3270	25.40	
66.75	68.76	2.01	2.01	100	H248703	3.0	21	9.16	0.25	4160	58.20	
68.76	69.78	1.02	0.76	75	H248705	1.0	22	1.37	0.35	3770	48.40	
69.78	70.45	0.67	0.67	100	H248706	1.0	22	0.76	0.50	1635	38.90	
70.45	72.85	2.40	2.01	84	H248707	3.0	22	0.47	0.21	1020	25.70	
72.85	75.89	3.04	2.84	93	H248708	4.0	22	0.50	0.15	1170	12.80	
75.89	76.62	0.73	0.71	97	H248709	1.0	22	0.76	0.52	921	58.80	
76.62	79.37	2.75	2.45	89	H248710	4.0	22	0.71	0.13	2020	27.40	
79.37	81.23	1.86	1.82	98	H248711	3.0	22	0.11	0.11	825	3.43	
81.23	83.92	2.69	2.03	75	H248712	3.0	22	7.74	0.87	>10000	481.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
83.92	86.87	2.95	2.22	75	H248713	3.0	22	3.58	0.42	>10000	290.00	
86.87	89.92	3.05	2.85	93	H248715	4.0	22	3.79	0.40	>10000	274.00	
89.92	91.44	1.52	1.20	79	H248716	1.5	22	2.04	1.07	>10000	4990.00	
91.44	93.36	1.92	1.04	54	H248718	1.5	22	1.36	0.86	>10000	1740.00	
93.36	95.86	2.50	2.43	97	H248720	5.0	22	7.42	0.24	>10000	521.00	
95.86	97.34	1.48	1.48	100	H248721	3.5	22	3.09	0.10	>10000	258.00	
97.34	99.37	2.03	2.03	100	H248722	4.0	22	0.17	0.07	1710	12.05	
99.37	101.35	1.98	1.79	90	H248723	3.5	22	0.26	0.10	2610	40.20	
101.35	104.39	3.04	2.87	94	H248725	5.0	22	0.12	0.07	187	7.38	
118.87	121.37	2.50	2.50	100	H248726	5.0	22	<0.01	0.01	58	0.66	
121.37	123.73	2.36	2.35	100	H248727	5.0	22	<0.01	0.02	37	3.25	
123.73	126.49	2.76	2.75	100	H248728	6.5	22	0.04	0.80	1665	361.00	
126.49	129.54	3.05	3.04	100	H248729	8.0	22	0.30	3.02	2490	398.00	
129.54	132.43	2.89	2.79	97	H248730	6.0	22	0.05	0.45	838	132.00	
132.43	133.63	1.20	1.20	100	H248731	3.0	22	0.03	0.01	413	93.10	
133.63	135.64	2.01	2.01	100	H248732	4.0	22	<0.01	0.02	28	2.86	
176.78	179.83	3.05	3.05	100	H248734	6.0	22	<0.01	1.70	>10000	371.00	
179.83	181.68	1.85	1.85	100	H248736	4.0	22	<0.01	<0.01	161	0.87	
181.68	184.40	2.72	2.72	100	H248737	5.5	22	0.01	0.40	170	0.77	
184.40	186.63	2.23	2.23	100	H248738	5.0	22	0.06	1.30	209	0.39	
186.63	188.98	2.35	2.32	99	H248739	4.5	22	<0.01	0.82	18	0.28	
-	-	-			H248675	0.3	21	1.39	1.64	>10000	348.00	Standard R-2
-	-	-			H248688	0.3	21	0.56	0.77	5810	98.20	Standard R-1
-	-	-			H248693	4.0	21	0.01	0.01	78	1.11	Blank
55.17	57.91	2.74	2.67	97	H248697	2.0	21	6.22	3.28	>10000	334.00	Duplicate
-	-	-			H248704	4.0	21	0.01	0.01	6	0.11	Blank
-	-	-			H248714	4.0	22	0.01	0.07	61	0.85	Blank
89.92	91.44	1.52	1.20	79	H248717	1.0	22	1.59	1.29	>10000	8210.00	Duplicate
-	-	-			H248719	4.0	22	<0.01	0.10	33	1.44	Blank
-	-	-			H248724	4.0	22	5.53	0.19	>10000	482.00	Standard R-3
-	-	-			H248735	0.3	22	1.49	<0.01	76	0.49	Standard R-2

DENSITY LOG

HOLE: Rau-09-36

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
109.15	LST			14.9	4.2	644.4	420.9	3.12	2.88
112.30	LEP			14.6	4.2	631.7	414.2	3.12	2.90
117.50	LEP			14.8	4.2	632.5	408.8	3.08	2.83
125.70	DOL	MX		14.9	4.2	1033.7	810.0	5.01	4.62
144.80	LST	ALT		14.4	4.2	627.7	409.3	3.15	2.87
151.84	LST	ALT		15.1	4.2	637.4	409.4	3.05	2.80
166.92	LEP			14.8	4.2	641.1	415.9	3.13	2.85
182.71	LEP			14.8	4.2	614.9	389.9	3.00	2.73

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-36

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
2.00	LST	FOS	0.08	
3.00	LST	FOS	0.24	
4.00	LST	FOS	0.02	
5.00	LST	FOS	0.02	
6.00	LST	FOS	0.02	
7.00	LST	FOS	0.02	
8.00	LST	FOS	0.47	
9.00	LST	FOS	0.02	
10.00	LST	FOS	0.00	
11.00	LST	FOS	0.00	
12.00	LST	FOS	0.06	
13.00	LST	FOS	0.04	
14.00	LST	FOS	0.02	
15.00	LST	FOS	0.04	
16.00	LST	FOS	0.04	
17.00	LST	ALT	0.04	
18.00	LST	ALT	0.12	
19.00	VOL	ALT	0.10	
20.00	OX	RBL	0.24	
21.00	LST	ALT	0.08	
22.00	LST	ALT	0.08	
23.00	LST	ALT	0.10	
24.00	LST	ALT	0.65	
25.00	LST	ALT	0.06	
26.00	LST	ALT	0.26	
27.00	LST	ALT	0.08	
28.00	LST	ALT	1.90	
29.00	LST	ALT	0.02	
30.00	LST	ALT	0.22	
31.00	LST	ALT	0.10	
32.00	LST	ALT	0.00	
33.00	LST	ALT	0.18	
34.00	LST	ALT	0.28	
35.00	LST	ALT	1.12	
36.00	LST	ALT	0.20	
37.00	LST	ALT	0.18	
38.00	LST	ALT	1.76	
39.00	LST	ALT	0.04	
40.00	LST	ALT	0.61	
41.00	LST	ALT	0.00	
42.00	LST	ALT	1.16	
43.00	LST	ALT	0.28	
44.00	LST	ALT	0.04	
45.00	LST	ALT	0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
46.00	LST	ALT	0.12	
47.00	OX	CLY	0.45	
48.00	OX	CLY	0.14	
49.00	OX	CLY	0.71	
50.00	OX	CLY	0.24	
51.00	OX	CLY	0.47	
52.00	OX	CLY	0.14	
53.00	OX	CLY	2.54	
54.00	OX	CLY	0.38	
55.00	OX	CLY	0.10	
56.00	OX	CLY	0.79	
57.00	OX	CLY	0.47	
58.00	OX	CLY	0.32	
59.00	OX	CLY	0.38	
60.00	OX	CLY	1.20	
61.00	OX	CLY	0.24	
62.00	LST	ALT	0.08	
63.00	LST	ALT	0.69	
64.00	LST	ALT	0.02	
65.00	LST	ALT	0.38	
66.00	LST	ALT	0.20	
67.00	LST	ALT	0.34	
68.00	LST	ALT	0.41	
69.00	LST	ALT	0.41	
70.00	LST	ALT	0.26	
71.00	LST	ALT	0.02	
72.00	LST	ALT	0.12	
73.00	LST	ALT	0.08	
74.00	LST	ALT	0.08	
75.00	LST	ALT	0.10	
76.00	LST	ALT	0.41	
77.00	LST	ALT	0.12	
78.00	LST	ALT	0.08	
79.00	LST	ALT	0.26	
80.00	LST	ALT	0.08	
81.00	LST	ALT	0.08	
82.00	OX	CLY	0.38	
83.00	OX	CLY	0.20	
84.00	OX	CLY	0.26	
85.00	OX	CLY	0.12	
86.00	OX	CLY	0.26	
87.00	OX	CLY	0.22	
88.00	OX	CLY	0.45	
89.00	OX	CLY	0.94	
90.00	OX	CLY	0.14	
91.00	OX	CLY	1.96	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
92.00	OX	CLY	0.30	
93.00	OX	CLY	0.38	
94.00	DOL	MX	0.36	
95.00	DOL	MX	0.88	
96.00	DOL	MX	0.32	
97.00	DOL	MX	0.28	
98.00	VOL		0.08	
99.00	VOL		0.20	
100.00	LST	BX	0.41	
101.00	LST	BX	0.30	
102.00	LST	BX	0.32	
103.00	LST	BX	0.12	
104.00	LST	BX	0.26	
105.00	LST	BX	1.72	
106.00	LST	BX	0.36	
107.00	LST	BX	0.12	
108.00	LST	BX	0.12	
109.00	LST	BX	0.18	
110.00	LST	BX	0.43	
111.00	LST	BX	0.20	
112.00	LST	BX	0.55	
113.00	LEP		0.16	
114.00	LEP		0.69	
115.00	LEP		1.96	
116.00	LEP		6.86	
117.00	LEP		1.53	
118.00	LEP		0.55	
119.00	LEP		0.67	
120.00	LEP		0.45	
121.00	LEP		18.50	
122.00	LEP		49.00	
123.00	LEP		0.92	
124.00	DOL	MX	0.12	
125.00	DOL	MX	0.77	
126.00	DOL	MX	0.41	
127.00	DOL	MX	0.18	
128.00	DOL	MX	0.36	
129.00	DOL	MX	0.12	
130.00	DOL	MX	1.57	
131.00	DOL	MX	0.38	
132.00	DOL	MX	0.32	
133.00	DOL	MX	0.49	
134.00	DOL	MX	0.24	
135.00	DOL	MX	0.16	
136.00	DOL	MX	8.11	
137.00	DOL	MX	1.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
138.00	LST	ALT	8.03	
139.00	LST	ALT	17.90	
140.00	LST	ALT	0.59	
141.00	LST	ALT	17.50	
142.00	LST	ALT	90.10	
143.00	LST	ALT	305.00	
144.00	LST	ALT	260.00	
145.00	LST	ALT	15.90	
146.00	LST	ALT	86.00	
147.00	LST	ALT	0.45	
148.00	LST	ALT	2.50	
149.00	LST	ALT	0.36	
150.00	LST	ALT	0.51	
151.00	LST	ALT	0.45	
152.00	LST	ALT	0.38	
153.00	LST	ALT	0.55	
154.00	LEP		1.41	
155.00	LEP		0.61	
156.00	LEP		1.94	
157.00	LEP		1.16	
158.00	LEP		0.38	
159.00	LEP		0.32	
160.00	LEP		0.47	
161.00	LEP		0.67	
162.00	LEP		0.69	
163.00	LEP		0.59	
164.00	LEP		0.28	
165.00	LEP		0.30	
166.00	LEP		0.45	
167.00	LEP		0.51	
168.00	LEP		0.98	
169.00	LEP		0.65	
170.00	LEP		0.82	
171.00	LEP		0.45	
172.00	LEP		0.36	
173.00	LEP		0.47	
174.00	LEP		0.59	
175.00	LEP		0.49	
176.00	LEP		0.55	
177.00	LEP		0.39	
178.00	LEP		0.53	
179.00	LEP		0.51	
180.00	LEP		0.59	
181.00	LEP		1.49	
182.00	LST		6.33	
183.00	LST		0.12	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
184.00	LST		1.23	
185.00	LST		0.59	
186.00	LST		0.14	
187.00	LST	ALT	0.04	
188.00	LST	ALT	0.02	
189.00	LST	ALT	0.06	
190.00	LST	ALT	0.00	
191.00	LST	ALT	0.10	
192.00	LST	ALT	0.02	

BOX LOG

HOLE: Rau-09-36

BOX	FROM (m)	TO (m)
1	1.35	10.75
2	10.75	16.00
3	16.00	21.34
4	21.34	26.70
5	26.70	32.56
6	32.56	38.60
7	38.60	44.05
8	44.05	51.70
9	51.70	56.85
10	56.85	61.94
11	61.94	67.16
12	67.16	72.54
13	72.54	77.11
14	77.11	82.60
15	82.60	88.83
16	88.83	95.10
17	95.10	99.67
18	99.67	105.25
19	105.25	110.23
20	110.23	115.68
21	115.68	121.37
22	121.37	126.92
23	126.92	132.43
24	132.43	137.79
25	137.79	143.26
26	143.26	148.88
27	148.88	154.49
28	154.49	160.02
29	160.02	165.69
30	165.69	171.16
31	171.16	176.78
32	176.78	182.49
33	182.49	188.02
34	188.02	192.02
	192.02	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+200W

HOLE: Rau-09-37
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528391	7119222	1303	122.84

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 3.66 (m) out

Drilling dates: July 19 – 23, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.05	3.05	OVB	
3.05	13.11	10.06	LST	Rubbly
13.11	22.11	9.00	OX	Clay rich
22.11	40.73	18.62	DOL	Altered
40.73	49.68	8.95	OX	Rubbly
49.68	52.73	3.05		No recovery
52.73	77.11	24.38	DOL	Mineralized
77.11	82.91	5.80		No recovery
82.91	120.00	37.09	DOL	Crackle
120	122.23	2.23	MBL	

SAMPLES

Numbers: H248740-H248772, H884473-H884478
Batches 22, 23 & 25
Total: 39
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-37

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.05	3.05	OVB																			
3.05	13.11	10.06	LST	RBL	BN	BD	50															Moderately rubbly, medium grey, banded limestone with 5-10 cm intervals with medium brown calcareous gritty clay. The rubbly fragments are 1-4 cm in diameter and sub-rounded to sub-angular.
13.11	22.11	9.00	OX	CLY									SID	I								Medium to dark orange-red-brown gritty oxide. Larger fragments are intensely siderite altered obliterating original structures and textures. (COLOUR 7.5 YR 3/4 - dark brown).
				RBL																		13.40-13.49 m: Bright yellow/slightly green clay interval with fragments of green-grey strongly clay altered rock.
																						13.49-20.52 m: Intensely siderite altered zone. Fragments are pitted.
																						15.50-15.61 m: Bull quartz rubble zone.
																						19.60-19.80 m: Rubbly zone of dark red-brown siderite fragments.
																						19.95 m: There is a patch of concentrated yellow mica flakes.
																						20.52-22.11 m: Oxide zone changes slightly to a gritty clay rich interval with yellow mica flakes and 1/2 cm diameter quartz grit.
22.11	40.73	18.62	DOL	ALT	BN	BD	65					f			f							Medium to coarse grained dolomite with pyrite occurring as medium to coarse grained sub-euhedral crystals scattered in a rough banded texture at 65 deg to CA. The entire unit is altered to varying degrees from weak oxidation of only sulphides to dark brown alteration of the carbonates to quite intense alteration of the carbonate resulting in a very rubbly zone. Most areas fizz at least slightly with acid. Contact with oxide is slightly gradational mostly resulting in oxidation of the dolomite over a few tens of metres.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						CN	50															22.11-23.56 m: Moderately to strongly carbonate alters zone. From 23.00 - 23.56 m orange red-brown rubbly zone (COLOUR 5 YR 2.5/2 - dark reddish brown). Lower contact is extremely sharp a 50 deg to CA.
						BD	70															23.56-24.78 m: Alteration is concentrated along sulphide bands, and around thin fractures at 30 deg to CA. The dolomite has a light yellowish tint to it.
						FR	30															
						BD	60															24.78-26.20 m: Dark brown, strongly altered dolomite. Faint banding of the sulphides occurs at 60 deg to CA.
						BD	70								w							26.20-33.49 m: Weakly to moderately altered zone with alteration concentrated around the sulphides. Overall pyrite is weak and occurs in bands at 70 deg to CA.
						BD	60															33.49-40.73 m: Zone of more strongly altered dolomite to the point where 15-20 cm sections are becoming rubbly. The surface of the dolomite is becoming pitted. Also some of the dolomite is so coarse grained that cavities exist between grains. Some areas are slightly banded at 60 deg to CA. The lower contact gradationally becomes extremely altered.
40.73	49.68	8.95	OX	RBL		BD	85															Dark orange-red-brown rubbly oxide with fragments up to 10 cm long of intensely altered dolomite. Other fragments are slightly more limonitic in nature with a pitted appearance. 2% fine grained quartz fragments, 2-3 mm, subangular, are scattered throughout. (COLOUR 7.5 YR3/4 - dark brown).
																						42.50-46.00 m: Banding is visible from and is roughly perpendicular to CA.
49.68	52.73	3.05																				NO RECOVERY - reaming zone. The core tube fell down the hole at this point.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
52.73	63.40	10.67	DOL	MX											m							Fine grained white dolomite (fizzes only faintly with acid) with common fracture network running at 35 deg to CA. Pyrite banding occurs at 50 deg to CA. Pyrite is oxidized but occurs in fine to medium grained patchy bands up to 0.7 cm thick. Rubbly siderite altered intervals occur often (but not always).
																						52.73-52.95 m: Semi-massive pyrite in dolomite. The more pyrite the more altered.
63.40	77.11	13.71	DOL	MX	BN	BD	75					w			m							Very coarse grained dolomite (possibly re-crystallized dolomite) with thin massive to semi-massive bands of heavily disseminated to patchy fine to medium grained pyrite. The dolomite is so coarse grained that in zones there are pits where th crystals didn't fit together. Slight yellow/orange alteration of the dolomite occurs surrounding the pyrite. Pyrite bands run at 75 deg to CA.
																						63.40-66.87m: Dolomite has a light pink tint. Rhodochrosite alteration??.
																						66.87-67.62 m: Semi-massive to massive heavily disseminated pyrite. The last 15 cm grades into dolomite. Bands occur at 70 deg to CA. The pyrite is very fresh with little to no signs of oxidation.
																						72.00-73.07 m: Gradual increase in the amount of alteration. In areas of concentrated pyrite the dolomite seems less resistant and is slightly weathered away. Fractures show dark brown alteration.
															35							73.07-73.98 m: Semi massive pyrite.
																						73.98-74.47 m: Yellow orange-brown alteration zone of the dolomite.
77.11	82.91	5.80																				No recovery- had to drill out the core barrel.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
82.91	120.00	37.09	DOL		CR										t							Medium grey, medium grained crackle brecciated dolomite with rubbly siderite zones. Pyrite occurs scattered throughout as fine to medium grained sub-euhedral crystals that have been strongly oxidized.
																						82.91-83.52 m: White massive aragonite vein. Chalk white in colour with radial fibrous texture in cavities and barely visible on freshly drilled surfaces.
																						83.52-86.26 m: Rubbly, slightly siderite altered dolomite with strongly oxidized pyrite crystals. The last 40 cm is medium brown highly calcareous clay with minor grit fragments.
																						88.20-88.50 m: Moderate red alteration stems from dense network of crackle fractures. The event slightly brecciated the core in a 2 cm zone.
																						88.90-93.52 m: Moderately to strongly crackle brecciated siderite altered dolomite with moderate hematite staining at 90.50-90.83 m.
						VN	40															94.00 m: By this point, begin to see coarse grained dolomite veins (that resemble snake skin) cutting the dolomite at 40 deg to CA.
																						107.59-110.00 m: there is a medium to dark grey zone of slightly more massive limestone.
					BN	BD	50															118.00 m: The dolomite takes on a banded texture running at 50 deg to CA. Bands appear to be more limestone in composition.
120.00	122.23	2.23	MBL			CN	40															Very light grey marble with patches of medium grey limestone. Banding occurs at 50 deg to CA. The lower contact between the limestone and the marble is sharp at 40 deg to CA.
																						122.83 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-37

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.05	3.96	0.91	0.22	24	0.00	0	MS	SW	
3.96	5.49	1.53	0.39	25	0.00	0	MS	SW	
5.49	7.01	1.52	0.52	34	0.10	7	MS	SW	
7.01	8.53	1.52	0.48	32	0.13	9	MS	SW	
8.53	10.06	1.53	0.43	28	0.00	0	MS	SW	
10.06	11.58	1.52	0.47	31	0.25	16	MS	SW	
11.58	13.11	1.53	0.10	7	0.00	0	MS	SW	
13.11	14.63	1.52	1.32	87	0.16	11	EW	EW	
14.63	16.15	1.52	1.17	77	0.00	0	EW	EW	
16.15	17.68	1.53	1.25	82	0.00	0	EW	EW	
17.68	19.20	1.52	0.86	57	0.00	0	EW	EW	
19.20	20.73	1.53	1.14	75	0.00	0	EW	EW	
20.73	22.25	1.52	1.34	88	0.13	9	EW	EW	
22.25	23.77	1.52	1.38	91	1.19	78	MS	MW	
23.77	25.30	1.53	1.35	88	1.03	67	MS	MW	
25.30	26.82	1.52	1.52	100	1.09	72	MS	MW	
26.82	28.35	1.53	1.43	93	1.42	93	MS	MW	
28.35	29.87	1.52	1.52	100	0.99	65	MS	MW	
29.87	31.39	1.52	1.52	100	1.25	82	MS	MW	
31.39	32.92	1.53	1.53	100	1.46	95	MS	MW	
32.92	34.44	1.52	1.36	89	1.14	75	MS	MW	
34.44	35.97	1.53	1.53	100	0.83	54	MS	MW	
35.97	37.49	1.52	1.34	88	0.67	44	MS	MW	
37.49	39.01	1.52	1.52	100	0.79	52	MS	MW	
39.01	40.54	1.53	1.41	92	0.85	56	MS	MW	
40.54	42.06	1.52	0.65	43	0.22	14	EW	EW	
42.06	43.59	1.53	1.09	71	0.00	0	EW	EW	
43.59	45.11	1.52	0.75	49	0.00	0	EW	EW	
45.11	46.63	1.52	1.29	85	0.00	0	EW	EW	
46.63	48.16	1.53	1.31	86	0.00	0	EW	EW	
48.16	49.68	1.52	0.45	30	0.00	0	EW	EW	
49.68	51.21	1.53	0.00	0	0.00	0	EW	EW	
51.21	52.73	1.52	0.28	18	0.00	0	EW	EW	
52.73	54.25	1.52	0.91	60	0.30	20	W	MW	
54.25	55.78	1.53	1.15	75	0.94	61	W	MW	
55.78	57.30	1.52	0.90	59	0.10	7	W	MW	
57.30	58.83	1.53	0.45	29	0.00	0	W	MW	
58.83	60.35	1.52	1.27	84	0.98	64	MS	MW	
60.35	61.87	1.52	0.73	48	0.53	35	MS	MW	
61.87	63.40	1.53	1.19	78	0.78	51	MS	MW	
63.40	64.92	1.52	1.44	95	1.42	93	S	SW	
64.92	66.45	1.53	1.42	93	1.19	78	S	SW	
66.45	67.97	1.52	1.52	100	1.48	97	S	SW	
67.97	69.49	1.52	1.52	100	1.32	87	S	SW	
69.49	71.02	1.53	1.50	98	1.23	80	S	SW	
71.02	72.54	1.52	1.52	100	1.28	84	S	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.47	96	1.18	77	MS	MW	
74.07	75.59	1.52	1.52	100	0.67	44	MS	MW	
75.59	77.11	1.52	1.30	86	0.57	38	MS	MW	
77.11	82.91	5.80	0.00	0	0.00	0			
82.91	83.21	0.30	0.15	50	0.00	0	MS	MW	
83.21	84.73	1.52	1.00	66	0.00	0	MS	MW	
84.73	86.26	1.53	0.98	64	0.00	0	MS	MW	
86.26	87.78	1.52	1.51	99	1.48	97	MS	MW	
87.78	89.31	1.53	1.53	100	1.40	92	MS	MW	
89.31	90.83	1.52	1.52	100	1.00	66	MS	MW	
90.83	92.35	1.52	1.41	93	1.18	78	MS	MW	
92.35	93.88	1.53	1.45	95	1.28	84	MS	MW	
93.88	95.40	1.52	1.52	100	1.39	91	S	SW	
95.40	96.93	1.53	1.53	100	1.24	81	S	SW	
96.93	98.45	1.52	1.45	95	1.11	73	S	SW	
98.45	99.97	1.52	1.52	100	0.99	65	S	SW	
99.97	101.50	1.53	1.17	76	0.91	59	S	SW	
101.50	103.02	1.52	1.52	100	1.16	76	S	SW	
103.02	104.55	1.53	1.53	100	1.38	90	S	SW	
104.55	106.07	1.52	1.52	100	0.91	60	S	SW	
106.07	107.59	1.52	1.52	100	1.28	84	S	SW	
107.59	109.12	1.53	1.53	100	1.47	96	S	SW	
109.12	110.64	1.52	1.46	96	1.28	84	S	SW	
110.64	112.17	1.53	1.53	100	1.40	92	S	SW	
112.17	113.69	1.52	1.47	97	1.03	68	S	SW	
113.69	115.21	1.52	1.52	100	1.47	97	S	SW	
115.21	116.74	1.53	1.45	95	1.42	93	S	SW	
116.74	118.26	1.52	1.52	100	1.44	95	S	SW	
118.26	119.79	1.53	1.45	95	0.90	59	S	SW	
119.79	121.31	1.52	1.49	98	1.10	72	S	SW	
121.31	122.83	1.52	1.52	100	1.48	97	S	SW	
	122.83	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-37

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
7.01	10.06	3.05	1.05	34	H248740	6.5	22	0.07	0.42	427	1.72	
10.06	13.11	3.05	0.63	21	H248741	2.0	23	0.17	0.34	1510	24.80	
13.11	16.15	3.04	2.30	76	H248742	7.5	23	2.37	39.80	>10000	1110.00	
16.15	19.20	3.05	2.25	74	H248743	8.5	23	4.69	55.40	>10000	1240.00	
19.20	20.52	1.32	0.94	71	H248744	5.0	23	2.32	3.23	>10000	1200.00	
20.52	22.11	1.59	1.30	82	H248746	3.5	23	4.92	6.38	>10000	1400.00	
22.11	23.53	1.42	1.29	91	H248747	4.5	23	0.76	0.14	2850	93.80	
23.53	26.20	2.67	2.58	97	H248748	9.5	23	0.84	0.52	342	371.00	
26.20	29.04	2.84	2.74	96	H248749	10.5	23	0.08	0.31	315	215.00	
29.04	31.69	2.65	2.61	98	H248750	10.0	23	0.03	0.08	197	335.00	
31.69	33.49	1.80	1.80	100	H248752	7.0	23	0.02	0.09	181	444.00	
33.49	36.32	2.83	2.74	97	H248753	8.5	23	0.09	0.22	634	322.00	
36.32	39.01	2.69	2.44	91	H248754	8.0	23	0.03	1.22	399	504.00	
39.01	40.73	1.72	1.60	93	H248755	5.0	23	0.04	2.82	892	179.50	
40.73	43.59	2.86	1.50	52	H248756	5.0	23	0.37	0.78	6300	1560.00	
43.59	46.63	3.04	2.06	68	H248757	6.5	23	0.23	1.00	4640	898.00	
46.63	49.68	3.05	1.62	53	H248759	5.0	23	0.42	0.65	3610	358.00	
52.73	55.78	3.05	2.17	71	H248761	7.5	23	0.03	0.09	727	71.90	
55.78	58.83	3.05	1.50	49	H248762	4.0	23	0.01	0.10	639	21.10	
58.83	61.87	3.04	1.97	65	H248763	8.0	23	0.02	0.43	720	81.40	
61.87	63.40	1.53	1.17	76	H248764	4.0	23	0.02	1.70	216	120.50	
63.40	65.03	1.63	1.52	93	H248765	7.0	23	0.05	4.15	448	326.00	
65.03	66.87	1.84	1.72	93	H248766	8.0	23	0.02	0.89	255	180.00	
66.87	67.62	0.75	0.75	100	H248767	4.5	23	0.05	2.42	605	1255.00	
67.62	69.49	1.87	1.87	100	H248768	9.0	23	0.02	0.75	464	345.00	
69.49	72.54	3.05	3.04	100	H248769	14.0	23	0.10	0.62	793	375.00	
72.54	75.59	3.05	3.02	99	H248770	12.0	23	0.36	0.32	1380	183.00	
75.59	77.11	1.52	1.30	86	H248772	4.5	23	3.65	0.55	262	1750.00	
82.91	85.00	2.09	1.45	69	H884473	4.5	25	0.03	0.60	242	2.17	
85.00	87.78	2.78	2.34	84	H884474	8.0	25	0.03	0.93	275	8.49	
87.78	91.40	3.62	3.62	100	H884476	14.0	25	0.03	0.73	471	9.49	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
91.40	93.52	2.12	1.94	92	H884477	7.0	25	0.04	1.42	138	15.35	
93.52	95.30	1.78	1.78	100	H884478	7.0	25	<0.01	0.08	15	0.33	
-	-	-			H248745	4.0	23	<0.01	0.13	67	2.40	Blank
29.04	31.69	2.65	2.61	98	H248751	4.5	23	0.03	0.10	181	513.00	Duplicate
-	-	-			H248758	0.3	23	0.61	0.84	6320	109.50	Standard R-1
-	-	-			H248760	3.5	23	<0.01	0.03	26	3.35	Blank
-	-	-			H248771	0.3	23	5.75	0.27	>10000	482.00	Standard R-3
85.00	87.78	2.78	2.34	84	H884475	5.0	25	0.19	0.88	232	6.70	Duplicate

DENSITY LOG

HOLE: Rau-09-37

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
28.51	DOL	ALT		14.7	6.1	1205.7	745.7	2.79	2.62
30.02	DOL	ALT		14.8	6.1	1240.2	775.7	2.85	2.67
33.20	DOL	ALT		14.7	6.1	1215.6	755.8	2.81	2.64
64.17	DOL	MX		14.9	6.1	1578.1	1109.0	3.60	3.36
68.06	DOL	MX		14.9	6.1	1417.0	945.5	3.23	3.01
70.05	DOL	MX		14.8	6.1	1586.2	1144.6	3.64	3.59
94.50	DOL			14.6	6.1	1315.2	855.5	3.06	2.86
103.50	DOL			14.7	6.1	1234.2	771.6	2.85	2.67
109.20	DOL			14.7	6.1	1316.2	852.6	3.04	2.84
122.50	MBL			14.8	6.1	1267.3	805.9	2.91	2.75

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-37

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
4.00	LST	RBL	0.00	
5.00	LST	RBL	0.05	
6.00	LST	RBL	0.11	
7.00	LST	RBL	0.01	
8.00	LST	RBL	0.03	
9.00	LST	RBL	0.35	
10.00	LST	RBL	0.30	
11.00	LST	RBL	0.00	
12.00	LST	RBL	0.01	
13.00	LST	RBL	0.00	
14.00	OX	CLY	0.30	
15.00	OX	CLY	0.30	
16.00	OX	CLY	0.55	
17.00	OX	CLY	0.82	
18.00	OX	CLY	0.45	
19.00	OX	CLY	0.52	
20.00	OX	CLY	0.80	
21.00	OX	CLY	0.33	
22.00	OX	CLY	0.62	
23.00	DOL	ALT	0.16	
24.00	DOL	ALT	0.40	
25.00	DOL	ALT	0.50	
26.00	DOL	ALT	0.20	
27.00	DOL	ALT	0.35	
28.00	DOL	ALT	0.26	
29.00	DOL	ALT	0.52	
30.00	DOL	ALT	0.21	
31.00	DOL	ALT	0.25	
32.00	DOL	ALT	0.26	
33.00	DOL	ALT	0.21	
34.00	DOL	ALT	0.33	
35.00	DOL	ALT	0.21	
36.00	DOL	ALT	0.20	
37.00	DOL	ALT	0.21	
38.00	DOL	ALT	0.21	
39.00	DOL	ALT	0.28	
40.00	DOL	ALT	0.50	
41.00	OX	RBL	0.30	
42.00	OX	RBL	0.36	
43.00	OX	RBL	0.38	
44.00	OX	RBL	0.16	
45.00	OX	RBL	0.42	
46.00	OX	RBL	0.35	
47.00	OX	RBL	0.13	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
48.00	OX	RBL	0.28	
49.00	OX	RBL	0.23	
50.00	N/A		N/A	
51.00	N/A		N/A	
52.00	N/A		N/A	
53.00	DOL	MX	0.47	
54.00	DOL	MX	0.72	
55.00	DOL	MX	0.10	
56.00	DOL	MX	0.06	
57.00	DOL	MX	0.26	
58.00	DOL	MX	0.33	
59.00	DOL	MX	0.26	
60.00	DOL	MX	0.38	
61.00	DOL	MX	0.28	
62.00	DOL	MX	0.26	
63.00	DOL	MX	0.23	
64.00	DOL	MX	0.26	
65.00	DOL	MX	0.25	
66.00	DOL	MX	0.26	
67.00	DOL	MX	0.10	
68.00	DOL	MX	0.18	
69.00	DOL	MX	0.16	
70.00	DOL	MX	0.16	
71.00	DOL	MX	0.26	
72.00	DOL	MX	0.40	
73.00	DOL	MX	0.28	
74.00	DOL	MX	0.62	
75.00	DOL	MX	0.38	
76.00	DOL	MX	0.23	
77.00	DOL	MX	0.43	
78.00	N/A		N/A	
79.00	N/A		N/A	
80.00	N/A		N/A	
81.00	N/A		N/A	
82.00	N/A		N/A	
83.00	DOL		0.00	
84.00	DOL		0.08	
85.00	DOL		0.06	
86.00	DOL		0.55	
87.00	DOL		0.31	
88.00	DOL		0.28	
89.00	DOL		0.33	
90.00	DOL		0.18	
91.00	DOL		0.47	
92.00	DOL		0.33	
93.00	DOL		0.20	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
94.00	DOL		0.36	
95.00	DOL		0.10	
96.00	DOL		0.16	
97.00	DOL		0.26	
98.00	DOL		0.13	
99.00	DOL		0.16	
100.00	DOL		0.06	
101.00	DOL		0.11	
102.00	DOL		0.18	
103.00	DOL		0.23	
104.00	DOL		0.10	
105.00	DOL		0.06	
106.00	DOL		0.06	
107.00	DOL		0.06	
108.00	DOL		0.05	
109.00	DOL		0.16	
110.00	DOL		0.08	
111.00	DOL		0.10	
112.00	DOL		0.08	
113.00	DOL		0.11	
114.00	DOL		0.30	
115.00	DOL		0.13	
116.00	DOL		0.25	
117.00	DOL		1.04	
118.00	DOL		0.90	
119.00	DOL		1.41	
120.00	DOL		0.23	
121.00	MBL		0.28	
122.00	MBL		0.25	

BOX LOG

HOLE: Rau-09-37

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	3.05	12.40			
2	12.40	16.45			
3	16.45	20.73			
4	20.73	25.07			
5	25.07	29.04			
6	29.04	33.18			
7	33.18	37.40			
8	37.40	42.38			
9	42.38	47.05			
10	47.05	54.00			
11	54.00	59.60			
12	59.60	65.03			
13	65.03	69.27			
14	69.27	73.34			
15	73.34	82.91			
16	82.91	87.27			
17	87.27	91.07			
18	91.07	95.30			
19	95.30	99.07			
20	99.07	103.19			
21	103.19	106.92			
22	106.92	110.94			
23	110.94	114.96			
24	114.96	119.04			
25	119.04	122.83			
	E.O.H.	122.83			

RAU PROJECT

ZONE: Tiger
SECTION: 10+350W

HOLE: Ray09-38
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528311	7119352	1378	138.99

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: BTW
Casing depth: 7.62 (m) out

Drilling dates: July 21 - 23, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.00	3.00	OVB	
3.00	27.35	24.35	LST	Fossiliferous
27.35	49.75	22.40	OX	Clay rich
49.75	100.92	51.17	LST	Altered, crackled
100.92	107.66	6.74	OX	Rubbly
107.66	124.14	16.48	LST	Fossiliferous
124.14	124.97	0.83	VOL	
124.97	126.03	1.06	OX	Clay rich
126.03	138.68	12.65	LST	Fossiliferous

SAMPLES	
Numbers:	H248773-H248800, H884451-H884472
	Batches 23, 24, 25
Total:	50
Date sent:	
Certificate:	VA09076284, VA09078188, VA09078180

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-38

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.00	3.00	OVB																			
3.00	27.35	24.35	LST	FOS	BN	BD	70															Medium grey banded limestone with 2-3% 1-2 mm crinoid stem fragments. Medium orange-brown clay bands occur within the limestone (0.2-4 cm). Overall the clay bands account for ~ 3%. The limestone is highly fractured along banding at 70 deg to CA. Within the interval there are rubbly zones that are only 10-15 cm long. Lower contact is very sharp at 70 deg to CA.
						CN	70															
27.35	49.75	22.40	OX	CLY		CN	20															Medium orange brown slightly gritty oxide clay with occasional zones of quartz fragments and as well as other zones with unaltered limestone. The oxide does not fizz with acid. (COLOUR - 7.5YR 4/6 - strong brown). Lower contact is very sharp but structurally irregular at ~ 20 deg to CA.
						BD	80															29.50 m: Bedding is distinguishable at 80 deg to CA.
																						31.74-32.32 m: banded limestone with some medium taupe-grey clay on the edges. The limestone itself is unaltered.
																						33.22-33.31 m: Cobbly limestone fragments that are unaltered. 34.50-34.75 m: Zone rich in quartz fragments up to 60% angular to sub-angular sand sized up to 1.5 cm.
																						35.03-35.58 m: Quartz rich zone with fragments sand sized up to 6 cm length pieces. 80% quartz in this interval.
																						39.95-41.15 m: Banded medium grey limestone with brown-taupe clay sections. 60% limestone, 40% clay.
																						44.48-44.81 m: Medium to dark green-grey clay with angular fragments of dark grey muddy limestone (?).
																						44.81-45.31 m: Dark red-brown limonite rubble/grit.
																						46.16-46.28 m: Siderite fragment.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
49.75	100.92	51.17	LST	ALT	CR	VN	40						Sid	f	t							Medium grey, gritty, crackle brecciated limestone. Ca veins cut at 40 deg to CA. The interval is generally rubbly and altered looking. Limonite rubbl zones occur from: 60.92-62.50 m, 67.51-67.76 m, 76.82-77.40 m. Oxidized pyrite cubes occur weakly. The pyrite is fine to medium grained and sub-euhedral.
																						68.34-71.20 m: Zone with medium to coarse grained siderite. Medium to dull brown in colour. With 20 cm lengths of dolomitized limestone.
																						76.82-77.78 m: Dark red-brown and orange brown gritty rubbly limestone transitioning into medium orange-brown siderite
																						78.80 m: Very faint bedding of the limestone occurs at 50 deg to CA.
																						85.69-89.92 m: Rubbly oxidized coarse grained dolomite with siderite alteration and minor limonite. Little dolomite is preserved, but where it is, it is coarse grained and crackled.
						VN	30						Sid	f								92.46-92.70 m: Area of dark brown siderite veinlets at 30 deg to CA, cut by Ca veinlets at 60 deg to CA.
						VN	60															
						VN	10															95.29-97.65 m: Very rubbly zone with coarse grained dolomite and siderite. Medium to dark brown with white dolomite. The siderite is slightly vuggy. One siderite vein occurs at 10 deg to CA.
															w							
																						97.65-100.92 m: Medium grey gritty limestone with a crackle texture, siderite veins and fracture fill. At 97.70 m there is a 15 cm of red-hematite fracture fill.
100.92	107.66	6.74	OX	RBL									Sid	ms								Medium orange-brown oxide grit with minor clay fragments of dark brown coarse grained crystalline siderite.
																						104.89-105.78 m: Very fluid brecciated limestone with Ca crackle veinlets cutting in all directions. The zone is moderately to strongly altered.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						106.05-107.66 m: Strong purple red hematite component to the interval.
107.66	124.14	16.48	LST	FOS	CR	VN	30						He	w								Medium grey very slightly fossiliferous crackled limestone with cross cutting Ca and Sid veins at 30 deg to CA.
																						107.66-209.59 m: There is a red hematite stain to the core. Hematite acts as fracture fill and residually stains the limestone.
																						108.30-108.4 m: Coarse mosaic breccia with large range in clast sizes from ~1mm up to 3 cm. The small clasts appear to fill in the void spaces between larger fragments. The area is strongly hematite stained.
124.14	124.97	0.83	VOL		FO	FO	30															Extremely altered orange-grey-brown foliated volcaniclastic- almost completely clay. (COLOUR 10YR 4/6 - dark yellowish brown)
124.97	126.03	1.06	OX	CLY																		Medium orange brown calcareous gritty clay containing indistinguishable sand sized fragments. (COLOUR 7.5 YR 4/6 - strong brown).
126.03	138.68	12.65	LST	FOS	BN	BD	55															Medium grey fossiliferous banded limestone. Fossils are crinoid stem fragments ~ 1-3%. Bedding is not always distinguishable but occurs at 55 deg to CA.
					BX																	128.50-132.80 m: Limestone becomes slightly fluid collapse brecciated.
						VN	60						SID	m								120.40-130.63 m: Coarse grained siderite occurs as a vuggy vein at 60 deg to CA.
			MBL		BN	BD	50			w												132.80-134.70 m: White marble with sericite bands at 50 deg to CA. The bottom 75 cm of the interval is banded with 2 cm layers of dark grey limestone. Upper contact is sharp at 60 deg to CA, 180 deg to BD.
						CN	60	180														
																						138.68 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-38

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.05	4.57	1.52	0.17	11	0.00	0	MS	SW	
4.57	5.10	0.53	0.41	77	0.00	0	MS	SW	
5.10	7.62	2.52	1.60	63	0.27	11	MS	SW	
7.62	8.84	1.22	1.00	82	0.00	0	MS	SW	
8.84	9.14	0.30	0.30	100	0.00	0	MS	SW	
9.14	10.67	1.53	0.95	62	0.00	0	MS	SW	
10.67	12.19	1.52	1.50	99	0.12	8	MS	SW	
12.19	12.95	0.76	0.61	80	0.00	0	MS	SW	
12.95	13.72	0.77	0.42	55	0.00	0	MS	SW	
13.72	14.63	0.91	0.57	63	0.23	25	MS	SW	
14.63	15.24	0.61	0.31	51	0.11	18	MS	SW	
15.24	16.76	1.52	1.32	87	0.00	0	MS	SW	
16.76	18.29	1.53	1.47	96	0.25	16	MS	SW	
18.29	19.81	1.52	1.45	95	0.21	14	MS	SW	
19.81	21.34	1.53	1.53	100	0.42	27	MS	SW	
21.34	22.86	1.52	1.38	91	0.64	42	MS	SW	
22.86	24.08	1.22	1.17	96	0.10	8	MS	SW	
24.08	24.69	0.61	0.61	100	0.13	21	MS	SW	
24.69	25.91	1.22	0.99	81	0.26	21	MS	SW	
25.91	26.22	0.31	0.31	100	0.17	55	MS	SW	
26.22	27.43	1.21	0.92	76	0.21	17	MS	SW	
27.43	28.96	1.53	0.83	54	0.00	0	EW	EW	
28.96	29.57	0.61	0.32	52	0.00	0	EW	EW	
29.57	31.09	1.52	1.17	77	0.00	0	EW	EW	
31.09	32.00	0.91	0.54	59	0.00	0	EW	EW	
32.00	33.22	1.22	0.94	77	0.15	12	EW	EW	
33.22	34.75	1.53	1.53	100	0.00	0	EW	EW	
34.75	35.35	0.60	0.60	100	0.00	0	EW	EW	
35.35	36.58	1.23	0.98	80	0.00	0	EW	EW	
36.58	37.34	0.76	0.52	68	0.00	0	EW	EW	
37.34	38.86	1.52	1.52	100	0.00	0	EW	EW	
38.86	39.93	1.07	0.35	33	0.00	0	EW	EW	
39.93	41.15	1.22	0.92	75	0.11	9	EW	EW	
41.15	42.52	1.37	1.34	98	0.00	0	EW	EW	
42.52	43.28	0.76	0.21	28	0.00	0	EW	EW	
43.28	44.81	1.53	1.53	100	0.00	0	EW	EW	
44.81	46.18	1.37	0.82	60	0.00	0	EW	EW	
46.18	47.24	1.06	1.06	100	0.00	0	EW	EW	
47.24	48.77	1.53	1.39	91	0.00	0	EW	EW	
48.77	49.99	1.22	1.05	86	0.38	31	EW	EW	
49.99	51.51	1.52	1.52	100	0.90	59	W	MW	
51.51	53.34	1.83	1.73	95	0.41	22	W	MW	
53.34	54.86	1.52	1.52	100	0.32	21	W	MW	
54.86	56.39	1.53	1.30	85	0.68	44	W	MW	
56.39	57.91	1.52	1.20	79	0.85	56	W	MW	
57.91	59.44	1.53	1.53	100	1.18	77	W	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
59.44	60.96	1.52	1.52	100	1.02	67	W	MW	
60.96	62.18	1.22	0.89	73	0.00	0	W	MW	
62.18	63.70	1.52	1.52	100	0.38	25	W	MW	
63.70	65.23	1.53	1.53	100	1.05	69	W	MW	
65.23	66.90	1.67	1.54	92	0.47	28	W	MW	
66.90	68.43	1.53	1.53	100	1.20	78	W	MW	
68.43	70.10	1.67	1.53	92	0.70	42	W	MW	
70.10	71.63	1.53	1.53	100	0.65	42	W	MW	
71.63	73.15	1.52	1.50	99	0.22	14	W	MW	
73.15	74.68	1.53	1.53	100	0.68	44	W	MW	
74.68	76.20	1.52	1.52	100	1.17	77	W	MW	
76.20	77.72	1.52	1.52	100	0.35	23	W	MW	
77.72	79.25	1.53	1.40	92	0.71	46	W	MW	
79.25	80.77	1.52	1.34	88	0.98	64	W	MW	
80.77	82.30	1.53	1.32	86	1.01	66	W	MW	
82.30	83.82	1.52	1.46	96	0.50	33	W	MW	
83.82	85.34	1.52	1.52	100	1.32	87	W	MW	
85.34	86.87	1.53	1.46	95	0.86	56	W	MW	
86.87	88.39	1.52	1.31	86	0.36	24	W	MW	
88.39	89.92	1.53	0.85	56	0.00	0	MS	SW	
89.92	91.44	1.52	1.52	100	1.42	93	MS	SW	
91.44	92.96	1.52	1.52	100	1.44	95	MS	SW	
92.96	94.49	1.53	1.52	99	1.33	87	MS	SW	
94.49	96.01	1.52	1.52	100	0.98	64	W	MW	
96.01	97.54	1.53	1.52	99	0.36	24	W	MW	
97.54	99.06	1.52	1.41	93	0.52	34	W	MW	
99.06	100.58	1.52	1.52	100	1.50	99	W	MW	
100.58	102.11	1.53	1.49	97	1.27	83	EW	EW	
102.11	103.33	1.22	0.80	66	0.00	0	EW	EW	
103.33	103.94	0.61	0.40	66	0.00	0	EW	EW	
103.94	104.70	0.76	0.63	83	0.00	0	EW	EW	
104.70	105.46	0.76	0.68	89	0.10	13	EW	EW	
105.46	106.68	1.22	1.05	86	0.14	11	EW	EW	
106.68	108.20	1.52	1.47	97	1.10	72	W	MW	
108.20	109.58	1.38	1.36	99	1.33	96	MS	SW	
109.58	111.10	1.52	1.51	99	1.45	95	MS	SW	
111.10	112.78	1.68	1.58	94	1.30	77	MS	SW	
112.78	114.30	1.52	1.52	100	1.47	97	MS	SW	
114.30	115.82	1.52	1.52	100	1.47	97	MS	SW	
115.82	117.35	1.53	1.53	100	1.35	88	MS	SW	
117.35	118.87	1.52	1.52	100	1.07	70	MS	SW	
118.87	120.40	1.53	1.50	98	1.30	85	MS	SW	
120.40	121.92	1.52	1.52	100	1.15	76	MS	SW	
121.92	123.44	1.52	1.50	99	1.34	88	MS	SW	
123.44	124.97	1.53	1.49	97	0.62	41	EW	EW	
124.97	126.03	1.06	1.06	100	0.00	0	EW	EW	
126.03	127.41	1.38	0.98	71	0.28	20	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
127.41	129.54	2.13	1.70	80	0.89	42	MS	SW	
129.54	132.59	3.05	3.05	100	2.28	75	MS	SW	
132.59	135.64	3.05	3.05	100	2.85	93	MS	SW	
135.64	138.68	3.04	3.04	100	2.74	90	MS	SW	
	138.68	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-38

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
21.95	24.69	2.74	2.74	100	H248773	5.0	23	0.01	0.05	35	3.17	
24.69	27.35	2.66	2.66	100	H248774	3.0	23	<0.01	0.08	16	3.89	
27.35	30.09	2.74	2.74	100	H248775	4.0	23	0.12	1.49	3310	304.00	
30.09	32.32	2.23	2.23	100	H248776	1.0	23	0.09	0.72	1730	56.30	
32.32	35.03	2.71	2.71	100	H248777	4.0	24	0.25	1.02	5650	232.00	
35.03	37.34	2.31	2.31	100	H248778	3.0	24	3.16	0.47	4780	403.00	
37.34	39.93	2.59	2.05	79	H248779	3.5	24	3.22	0.69	8130	489.00	
39.93	41.15	1.22	1.02	84	H248780	1.0	24	0.31	0.57	1530	16.15	
41.15	43.28	2.13	1.60	75	H248781	2.0	24	1.29	0.78	>10000	502.00	
43.28	46.18	2.90	2.60	90	H248782	4.0	24	0.85	0.56	7130	556.00	
46.18	48.00	1.82	1.82	100	H248784	3.0	24	2.05	1.53	5130	805.00	
48.00	49.75	1.75	1.50	86	H248785	2.0	24	0.83	1.63	3990	408.00	
49.75	51.51	1.76	1.76	100	H248786	3.0	24	0.30	0.50	390	9.64	
51.51	53.34	1.83	1.63	89	H248787	2.0	24	0.19	0.79	465	25.00	
53.34	55.60	2.26	2.26	100	H248789	3.0	24	0.13	0.39	190	8.87	
55.60	57.91	2.31	1.85	80	H248791	2.5	24	0.13	0.26	230	2.12	
57.91	60.92	3.01	3.01	100	H248793	4.0	24	0.08	0.47	512	8.27	
60.92	62.50	1.58	1.30	82	H248794	2.0	24	0.05	0.98	1640	27.80	
62.50	65.23	2.73	2.23	82	H248795	4.0	24	0.05	0.32	316	3.82	
65.23	68.34	3.11	2.46	79	H248796	4.0	24	0.07	1.29	395	20.80	
68.34	71.20	2.86	2.86	100	H248797	4.0	24	0.08	2.21	463	41.70	
71.20	73.15	1.95	1.83	94	H248798	2.5	24	0.05	0.45	205	4.31	
73.15	76.82	3.67	3.67	100	H248799	6.0	24	0.05	0.09	146	3.25	
76.82	77.78	0.96	0.96	100	H248800	1.5	24	0.17	0.11	2030	19.30	
77.78	80.77	2.99	2.72	91	H884451	4.0	24	0.11	0.24	603	7.85	
80.77	83.82	3.05	2.70	89	H884453	4.0	24	0.16	0.36	1260	12.25	
83.82	85.69	1.87	1.87	100	H884454	3.0	24	0.07	0.40	815	6.45	
85.69	87.24	1.55	1.38	89	H884455	2.0	24	0.16	1.06	1420	134.00	
87.24	89.92	2.68	1.83	68	H884456	2.0	24	0.08	6.45	2680	69.70	
89.92	92.96	3.04	2.99	98	H884457	5.0	24	0.02	0.44	321	2.37	
92.96	95.29	2.33	2.18	94	H884458	3.5	24	0.02	0.27	84	2.06	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
95.29	97.65	2.36	2.36	100	H884459	3.5	24	0.04	0.75	125	2.11	
97.65	100.92	3.27	3.12	95	H884460	5.0	24	0.06	1.14	293	5.27	
100.92	103.94	3.02	2.39	79	H884461	4.0	24	0.74	47.80	6890	424.00	
103.94	104.89	0.95	0.80	84	H884462	1.0	24	0.19	6.01	7020	153.00	
104.89	105.78	0.89	0.77	87	H884463	1.0	25	0.04	17.10	1240	86.70	
105.78	107.66	1.88	1.70	90	H884464	2.5	25	0.08	4.11	4250	31.10	
107.66	109.59	1.93	1.93	100	H884466	3.5	25	0.01	1.06	389	5.95	
120.40	124.13	3.73	3.73	100	H884468	6.0	25	0.09	2.79	264	15.55	
124.13	124.97	0.84	0.78	93	H884469	1.0	25	0.95	7.44	1880	79.50	
124.97	126.03	1.06	1.06	100	H884470	2.0	25	1.56	5.11	3980	237.00	
126.03	129.00	2.97	2.97	100	H884471	5.0	25	0.13	1.18	201	13.50	
129.00	132.00	3.00	2.95	98	H884472	5.0	25	0.02	0.21	16	2.22	
-	-	-			H248783	4.0	24	0.01	0.03	17	0.97	Blank
-	-	-			H248788	0.3	24	0.53	1.14	5670	101.50	Standard R-1
53.34	55.60	2.26	2.26	100	H248790	1.0	24	0.14	0.39	161	6.76	Duplilcate
-	-	-			H248792	4.0	24	<0.01	0.01	<5	0.12	Blank
-	-	-			H884452	0.3	24	1.46	1.59	>10000	331.00	Standard R-2
-	-	-			H884465	4.0	25	<0.01	0.17	11	0.14	Blank
-	-	-			H884467	0.3	25	1.49	1.69	>10000	330.00	Standard R-2

DENSITY LOG

HOLE: Rau-09-38

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
50.15	LST	FOS		14.8	4.2	583.2	366.2	2.84	2.69
68.00	LST	ALT		14.6	4.2	520.7	313.9	2.57	2.52
84.40	LST	ALT		14.8	4.2	550.6	338.9	2.69	2.60
91.10	LST	ALT		14.9	4.2	569.2	352.7	2.76	2.63

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-38

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
3.00	LST	FOS	0.02	
4.00	LST	FOS	0.00	
5.00	LST	FOS	0.10	
6.00	LST	FOS	0.02	
7.00	LST	FOS	0.00	
8.00	LST	FOS	0.02	
9.00	LST	FOS	0.02	
10.00	LST	FOS	0.02	
11.00	LST	FOS	0.04	
12.00	LST	FOS	0.04	
13.00	LST	FOS	0.04	
14.00	LST	FOS	0.02	
15.00	LST	FOS	0.02	
16.00	LST	FOS	0.02	
17.00	LST	FOS	0.12	
18.00	LST	FOS	0.04	
19.00	LST	FOS	0.16	
20.00	LST	FOS	0.16	
21.00	LST	FOS	0.26	
22.00	LST	FOS	0.02	
23.00	LST	FOS	0.20	
24.00	LST	FOS	0.00	
25.00	LST	FOS	0.02	
26.00	LST	FOS	0.06	
27.00	LST	FOS	0.10	
28.00	OX	CLY	0.57	
29.00	OX	CLY	0.24	
30.00	OX	CLY	0.30	
31.00	OX	CLY	0.38	
32.00	OX	CLY	0.06	
33.00	OX	CLY	1.61	
34.00	OX	CLY	0.38	
35.00	OX	CLY	0.84	
36.00	OX	CLY	3.28	
37.00	OX	CLY	0.47	
38.00	OX	CLY	0.47	
39.00	OX	CLY	0.24	
40.00	OX	CLY	1.04	
41.00	OX	CLY	1.84	
42.00	OX	CLY	1.37	
43.00	OX	CLY	0.28	
44.00	OX	CLY	0.59	
45.00	OX	CLY	0.38	
46.00	OX	CLY	0.43	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
47.00	OX	CLY	1.37	
48.00	OX	CLY	0.16	
49.00	OX	CLY	1.53	
50.00	LST	ALT	0.08	
51.00	LST	ALT	0.26	
52.00	LST	ALT	0.02	
53.00	LST	ALT	1.08	
54.00	LST	ALT	0.06	
55.00	LST	ALT	0.34	
56.00	LST	ALT	0.02	
57.00	LST	ALT	0.06	
58.00	LST	ALT	0.02	
59.00	LST	ALT	0.04	
60.00	LST	ALT	0.43	
61.00	LST	ALT	0.38	
62.00	LST	ALT	0.18	
63.00	LST	ALT	0.08	
64.00	LST	ALT	3.75	
65.00	LST	ALT	0.55	
66.00	LST	ALT	0.10	
67.00	LST	ALT	0.08	
68.00	LST	ALT	0.61	
69.00	LST	ALT	0.14	
70.00	LST	ALT	0.16	
71.00	LST	ALT	0.61	
72.00	LST	ALT	0.08	
73.00	LST	ALT	0.14	
74.00	LST	ALT	0.04	
75.00	LST	ALT	0.06	
76.00	LST	ALT	0.08	
77.00	LST	ALT	0.71	
78.00	LST	ALT	0.06	
79.00	LST	ALT	0.32	
80.00	LST	ALT	0.08	
81.00	LST	ALT	0.26	
82.00	LST	ALT	0.10	
83.00	LST	ALT	0.18	
84.00	LST	ALT	0.12	
85.00	LST	ALT	0.08	
86.00	LST	ALT	0.20	
87.00	LST	ALT	0.18	
88.00	LST	ALT	0.36	
89.00	LST	ALT	0.10	
90.00	LST	ALT	0.08	
91.00	LST	ALT	0.06	
92.00	LST	ALT	0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
93.00	LST	ALT	0.10	
94.00	LST	ALT	0.16	
95.00	LST	ALT	0.08	
96.00	LST	ALT	0.30	
97.00	LST	ALT	0.14	
98.00	LST	ALT	0.06	
99.00	LST	ALT	0.04	
100.00	LST	ALT	0.10	
101.00	OX	RBL	0.51	
102.00	OX	RBL	0.24	
103.00	OX	RBL	0.32	
104.00	OX	RBL	0.53	
105.00	OX	RBL	0.10	
106.00	OX	RBL	0.16	
107.00	OX	RBL	0.61	
108.00	LST	FOS	0.61	
109.00	LST	FOS	0.12	
120.00	LST	FOS	0.14	
121.00	LST	FOS	0.18	
122.00	LST	FOS	0.24	
123.00	LST	FOS	0.10	
124.00	LST	FOS	0.43	
125.00	OX	CLY	1.64	
126.00	OX	CLY	0.47	
127.00	LST	FOS	0.04	
128.00	LST	FOS	0.04	
129.00	LST	FOS	0.14	
130.00	LST	FOS	0.22	
131.00	LST	FOS	0.10	
132.00	LST	FOS	0.04	
133.00	LST	FOS	0.04	
134.00	LST	FOS	0.98	
135.00	LST	FOS	1.12	
136.00	LST	FOS	0.71	
137.00	LST	FOS	0.41	
138.00	LST	FOS	0.12	

BOX LOG

HOLE: Rau-09-38

BOX	FROM (m)	TO (m)		BOX	FROM (m)	TO (m)
1	3.00	10.63				
2	10.63	16.59				
3	16.59	21.95				
4	21.95	27.24				
5	27.24	33.97				
6	33.97	39.00				
7	39.00	45.03				
8	45.03	50.51				
9	50.51	55.60				
10	55.60	61.23				
11	61.23	66.60				
12	66.60	71.63				
13	71.63	76.62				
14	76.62	82.08				
15	82.08	87.24				
16	87.24	93.32				
17	93.32	98.65				
18	98.65	104.20				
19	104.20	109.58				
20	109.58	114.30				
21	114.30	119.70				
22	119.70	124.97				
23	124.97	129.54				
24	129.54	135.07				
25	135.07	138.68				
	138.68	E.O.H.				

RAU PROJECT

ZONE: Tiger
SECTION: 10+400W

HOLE: Rau-09-39
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528286	7119395	1410.25	163.68

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-75	compass				

Core size: BTW
Casing depth: 1.54 (m) out

Drilling dates: July 23 - 27, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.20	1.20	OVB	
1.20	64.60	63.40	LST	Fossiliferous
64.60	96.01	31.41	LST	
96.01	103.18	7.17	OX	Clay rich
103.18	139.00	35.82	LST	Altered
139.00	163.68	24.68	LST	Marbleized

SAMPLES	
Numbers:	H884511-H884535, H884586-H884593
	Batches 26,27,28
Total:	33
Date sent:	
Certificate:	VO09087123, VO09087124, VO09087122

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-39

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.20	1.20	OVB																			
1.20	64.60	63.40	LST	FOS	FO	FO	25					t			w							Medium grey, fossiliferous, moderately fractured, strongly foliated, occasionally crackle brecciated, highly calcareous limestone. Crinoid stem fragments generally resist structural deformation. Trace to weak oxidized pyrite occurs as fine to medium grained sub-euhedral disseminated crystals. The foliation varies between 20-30 deg to CA.
						FO	30															1.20-6.10 m: Medium grey-taupe clay occurs on some of the fractured surfaces. Foliation at 30 deg to CA.
						FO	25															6.10-24.38 m: More irregular structural deformation with slightly crackle brecciated zones. Areas with increased pyrite content are slightly vuggy. The structural deformation seems stronger disturbing the crinoid stem fragments. The foliation oscillates between 20 and 30 deg to CA.
													MBL	w								47.75-64.40 m: Steady progression of the limestone becoming marbleized.
64.60	96.01	31.41	LST		FO	FO	30						MBL	s								Strongly marbleized foliated limestone with strong overprint the structural fabric. The foliation varies slightly as follows:
						FO	25															64.60-83.82 m: 25 deg to CA
						FO	30															83.82-89.00 m: 30 deg to CA
						FO	35															89.00-95.00 m: 35 deg to CA
						FO	25															95.00-96.01 m: 25 deg to CA
96.01	103.18	7.17	OX	CLY	MA	CN	25															Medium orange-brown slightly gritty competent clay. No structures or textures are distinguishable on the smeared cored surface, but the split surface appears quite massive. The upper contact is sharp but undulating at 25 deg to CA. The lower contact of the first oxide interval is 40 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
			LST			CN	40															99.24-102.11 m: Fairly to strongly carbonate altered medium grey limestone with vuggy patches and medium brown calcareous clay coatings on the fractures. Sulphides have been oxidized. Parts of the interval are very rubbly. Upper contact with oxide is sharp at 40 deg to CA.
																						102.11-103.19 m: Dark orange-red-brown gritty oxide clay.
103.18	118.37	15.19	LST	RBL		VN	50					w			f	w						Beige-tan brown strongly carbonate altered limestone. The interval is very rubbly with medium brown clay coatings on fractures. The surface of the core is occasionally vuggy. Disseminated medium grained pyrite (fair) and arsenopyrite (weak) have been strongly oxidized. Altered Ca veins (0.2-2 cm) thick cut the limestone at 50 deg to CA. Few structures or textures are recognizable within the interval. The sulphides appear concentrated within veins.
				ALT																		
118.37	128.12	9.75	LST	ALT	CR	VN	10						HE	m	w	t						Medium grey crackle brecciated limestone with areas of pink/red hematite staining. There are areas that are more intensely brecciated than others. Thin Ca veinlets cut the breccia at 10, 30 and 40 deg to CA. Strongly oxidized medium grained anhedral sulphides weakly occur. Clasts within the breccia vary, but they can be sub-rounded and are typically 0.3-1 cm in size.
						VN	30															
						VN	40															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
128.12	139.00	10.88	LST	ALT		VN	40						MBL	m								Moderately marbleized rubbly limestone with zones and fracture coatings of bright orange brown moderately to strongly calcareous clay containing subrounded fragments of limestone. Rare very coarse grained calcite veins cut at 40 deg to CA, bu are quite rubbly. Overall recovery is not very good. 10% clay, 90% limestone in box, but poor recovery could be due to wash away of clay.
139.00	163.68	24.68	LST	ALT	BN	BD	55						MBL	f								Fairly marbleized, banded, medium grey limestone with fracture coating of bright orange-brown clay. Quite rubbly.
																						163.69 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-39

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.20	1.52	0.32	0.32	100	0.00	0	MS	SW	
1.52	3.05	1.53	0.94	61	0.00	0	MS	SW	
3.05	4.57	1.52	1.49	98	0.44	29	MS	SW	
4.57	6.10	1.53	1.53	100	0.75	49	MS	SW	
6.10	7.62	1.52	1.33	88	1.08	71	MS	SW	
7.62	9.14	1.52	1.52	100	1.06	70	MS	SW	
9.14	10.67	1.53	1.36	89	1.13	74	MS	SW	
10.67	12.19	1.52	1.52	100	0.80	53	MS	SW	
12.19	13.72	1.53	1.35	88	0.76	50	MS	SW	
13.72	15.24	1.52	1.52	100	1.19	78	MS	SW	
15.24	16.76	1.52	1.30	86	0.74	49	MS	SW	
16.76	18.29	1.53	1.52	99	1.40	92	MS	SW	
18.29	19.81	1.52	1.44	95	0.42	28	MS	SW	
19.81	21.34	1.53	1.53	100	0.60	39	MS	SW	
21.34	22.86	1.52	1.52	100	1.21	80	MS	SW	
22.86	24.38	1.52	1.48	97	1.03	68	MS	SW	
24.38	25.91	1.53	1.46	95	0.62	41	MS	SW	
25.91	27.43	1.52	1.42	93	0.97	64	MS	SW	
27.43	28.96	1.53	1.38	90	1.08	71	MS	SW	
28.96	30.48	1.52	1.34	88	1.07	70	MS	SW	
30.48	32.00	1.52	1.27	84	0.65	43	MS	SW	
32.00	33.53	1.53	1.26	82	1.12	73	MS	SW	
33.53	35.05	1.52	1.52	100	0.84	55	MS	SW	
35.05	36.58	1.53	1.40	92	1.06	69	MS	SW	
36.58	38.10	1.52	1.52	100	0.92	61	MS	SW	
38.10	39.62	1.52	1.52	100	0.88	58	MS	SW	
39.62	41.15	1.53	1.45	95	0.31	20	MS	SW	
41.15	44.20	3.05	2.98	98	2.02	66	MS	SW	
44.20	45.72	1.52	1.12	74	0.58	38	MS	SW	
45.72	47.24	1.52	1.52	100	0.20	13	MS	SW	
47.24	47.85	0.61	0.48	79	0.14	23	MS	SW	
47.85	48.77	0.92	0.92	100	0.58	63	MS	SW	
48.77	49.38	0.61	0.61	100	0.45	74	MS	SW	
49.38	50.29	0.91	0.66	73	0.29	32	MS	SW	
50.29	51.51	1.22	1.12	92	0.85	70	MS	SW	
51.51	52.43	0.92	0.38	41	0.00	0	MS	SW	
52.43	52.58	0.15	0.14	93	0.00	0	MS	SW	
52.58	52.73	0.15	0.14	93	0.00	0	MS	SW	
52.73	53.34	0.61	0.45	74	0.11	18	MS	SW	
53.34	54.10	0.76	0.38	50	0.00	0	MS	SW	
54.10	54.56	0.46	0.37	80	0.00	0	MS	SW	
54.56	55.02	0.46	0.41	89	0.00	0	MS	SW	
55.02	55.47	0.45	0.45	100	0.10	22	MS	SW	
55.47	55.63	0.16	0.12	75	0.00	0	MS	SW	
55.63	56.08	0.45	0.44	98	0.24	53	MS	SW	
56.08	57.00	0.92	0.81	88	0.28	30	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
57.00	57.91	0.91	0.91	100	0.54	59	MS	SW	
57.91	58.52	0.61	0.59	97	0.12	20	MS	SW	
58.52	59.44	0.92	0.90	98	0.14	15	MS	SW	
59.44	60.35	0.91	0.91	100	0.34	37	MS	SW	
60.35	61.57	1.22	1.12	92	0.91	75	MS	SW	
61.57	62.48	0.91	0.82	90	0.00	0	MS	SW	
62.48	63.55	1.07	1.05	98	0.22	21	MS	SW	
63.55	63.86	0.31	0.24	77	0.00	0	MS	SW	
63.86	64.77	0.91	0.86	95	0.51	56	MS	SW	
64.77	65.53	0.76	0.76	100	0.57	75	MS	SW	
65.53	66.14	0.61	0.53	87	0.26	43	MS	SW	
66.14	66.45	0.31	0.27	87	0.00	0	MS	SW	
66.45	67.06	0.61	0.55	90	0.28	46	MS	SW	
67.06	68.12	1.06	1.06	100	0.56	53	MS	SW	
68.12	68.43	0.31	0.18	58	0.00	0	MS	SW	
68.43	68.88	0.45	0.44	98	0.00	0	MS	SW	
68.88	70.10	1.22	1.15	94	0.40	33	MS	SW	
70.10	71.63	1.53	1.49	97	0.51	33	MS	SW	
71.63	73.15	1.52	1.30	86	0.16	11	MS	SW	
73.15	74.68	1.53	1.29	84	0.14	9	MS	SW	
74.68	76.20	1.52	1.20	79	0.20	13	MS	SW	
76.20	77.72	1.52	1.30	86	0.31	20	MS	SW	
77.72	79.25	1.53	1.51	99	0.38	25	MS	SW	
79.25	80.77	1.52	1.35	89	0.39	26	MS	SW	
80.77	82.30	1.53	1.28	84	0.32	21	MS	SW	
82.30	83.82	1.52	1.41	93	0.43	28	MS	SW	
83.82	85.34	1.52	1.48	97	0.64	42	MS	SW	
85.34	86.87	1.53	1.47	96	0.33	22	MS	SW	
86.87	88.39	1.52	1.22	80	0.22	14	MS	SW	
88.39	89.92	1.53	1.53	100	1.26	82	MS	SW	
89.92	91.44	1.52	1.43	94	0.68	45	MS	SW	
91.44	92.96	1.52	1.06	70	0.75	49	MS	SW	
92.96	94.49	1.53	1.53	100	0.45	29	MS	SW	
94.49	96.01	1.52	1.25	82	0.50	33	MS	SW	
96.01	97.54	1.53	1.53	100	0.00	0	EW	EW	
97.54	99.06	1.52	1.52	100	0.00	0	EW	EW	
99.06	100.58	1.52	1.49	98	0.59	39	W	MW	
100.58	101.04	0.46	0.39	85	0.13	28	W	MW	
101.04	102.11	1.07	0.78	73	0.23	21	W	MW	
102.11	102.72	0.61	0.29	48	0.00	0	EW	EW	
102.72	103.63	0.91	0.79	87	0.19	21	EW	EW	
103.63	104.55	0.92	0.92	100	0.45	49	W	MW	
104.55	105.00	0.45	0.24	53	0.12	27	W	MW	
105.00	105.77	0.77	0.77	100	0.46	60	W	MW	
105.77	106.68	0.91	0.48	53	0.11	12	W	MW	
106.68	107.59	0.91	0.85	93	0.53	58	W	MW	
107.59	108.66	1.07	0.86	80	0.46	43	W	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
108.66	109.73	1.07	1.00	93	0.56	52	W	MW	
109.73	110.34	0.61	0.40	66	0.10	16	W	MW	
110.34	111.25	0.91	0.91	100	0.26	29	W	MW	
111.25	112.32	1.07	1.01	94	0.00	0	W	MW	
112.32	113.23	0.91	0.63	69	0.00	0	W	MW	
113.23	114.00	0.77	0.62	81	0.48	62	W	MW	
114.00	114.60	0.60	0.29	48	0.00	0	W	MW	
114.60	115.06	0.46	0.33	72	0.13	28	W	MW	
115.06	115.67	0.61	0.33	54	0.00	0	W	MW	
115.67	116.43	0.76	0.55	72	0.12	16	W	MW	
116.43	117.35	0.92	0.49	53	0.16	17	W	MW	
117.35	118.26	0.91	0.33	36	0.00	0	W	MW	
118.26	119.48	1.22	1.14	93	0.86	70	W	MW	
119.48	121.01	1.53	1.53	100	0.98	64	MS	SW	
121.01	122.68	1.67	1.54	92	1.29	77	MS	SW	
122.68	124.36	1.68	1.59	95	1.38	82	MS	SW	
124.36	125.27	0.91	0.82	90	0.34	37	MS	SW	
125.27	126.49	1.22	1.18	97	1.18	97	MS	SW	
126.49	128.02	1.53	1.06	69	0.67	44	MS	SW	
128.02	128.93	0.91	0.49	54	0.10	11	MS	MW	
128.93	129.24	0.31	0.25	81	0.00	0	MS	MW	
129.24	129.84	0.60	0.42	70	0.10	17	MS	MW	
129.84	130.45	0.61	0.52	85	0.14	23	MS	MW	
130.45	131.06	0.61	0.61	100	0.15	25	MS	MW	
131.06	132.59	1.53	0.93	61	0.23	15	MS	MW	
132.59	134.11	1.52	0.93	61	0.19	12	MS	MW	
134.11	135.64	1.53	1.21	79	0.72	47	MS	MW	
135.64	137.16	1.52	0.87	57	0.11	7	MS	MW	
137.16	138.68	1.52	0.63	41	0.00	0	MS	MW	
138.68	140.21	1.53	0.85	56	0.13	8	MS	MW	
140.21	141.73	1.52	0.80	53	0.18	12	MS	MW	
141.73	143.26	1.53	1.26	82	0.42	27	MS	MW	
143.26	144.78	1.52	1.07	70	0.36	24	MS	MW	
144.78	146.30	1.52	1.42	93	0.44	29	MS	MW	
146.30	147.83	1.53	0.78	51	0.20	13	MS	MW	
147.83	148.44	0.61	0.32	52	0.00	0	MS	MW	
148.44	148.89	0.45	0.35	78	0.12	27	MS	MW	
148.89	149.05	0.16	0.08	50	0.00	0	MS	MW	
149.05	149.81	0.76	0.46	61	0.00	0	MS	MW	
149.81	150.72	0.91	0.52	57	0.00	0	MS	MW	
150.72	151.33	0.61	0.55	90	0.14	23	MS	MW	
151.33	151.49	0.16	0.16	100	0.00	0	MS	MW	
151.49	151.94	0.45	0.43	96	0.17	38	MS	MW	
151.94	152.40	0.46	0.21	46	0.18	39	MS	MW	
152.40	153.01	0.61	0.11	18	0.00	0	MS	MW	
153.01	153.16	0.15	0.09	60	0.00	0	MS	MW	
153.16	153.92	0.76	0.58	76	0.22	29	MS	MW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
153.92	154.23	0.31	0.09	29	0.00	0	MS	MW	
154.23	155.45	1.22	0.11	9	0.00	0	MS	MW	
155.45	155.91	0.46	0.09	20	0.00	0	MS	MW	
155.91	156.30	0.39	0.39	100	0.00	0	MS	MW	
156.30	156.97	0.67	0.18	27	0.00	0	MS	MW	
156.97	158.50	1.53	0.15	10	0.00	0	MS	MW	
158.50	160.02	1.52	1.10	72	0.00	0	MS	MW	
160.02	161.54	1.52	0.92	61	0.15	10	MS	MW	
161.54	163.07	1.53	0.77	50	0.10	7	MS	MW	
163.07	163.68	0.61	0.46	75	0.00	0	EW	EW	
	163.68	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-39

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
93.65	96.01	2.36	2.36	100	H884511	3.5	26	0.01	0.05	28	0.33	
96.01	97.54	1.53	1.53	100	H884512	2.0	26	2.29	0.42	50800	372.00	
97.54	99.24	1.70	1.70	100	H884514	2.5	26	2.76	1.14	46100	94.90	
99.24	102.11	2.87	2.42	84	H884515	3.5	26	0.21	0.45	3910	35.00	
102.11	103.18	1.07	0.76	71	H884517	1.0	26	0.74	2.02	24700	153.00	
103.18	105.77	2.59	2.38	92	H884518	3.5	26	0.13	0.27	1920	6.86	
105.77	108.66	2.89	2.25	78	H884519	3.0	26	0.14	0.33	1160	4.40	
108.66	111.25	2.59	2.50	97	H884520	3.0	26	0.13	0.24	1320	16.80	
111.25	114.00	2.75	2.33	85	H884521	3.0	26	0.14	0.53	2130	7.25	
114.00	116.28	2.28	1.39	61	H884523	2.0	26	0.13	0.83	2230	14.45	
116.28	118.37	2.09	1.12	54	H884524	1.0	26	0.13	0.75	1980	13.15	
118.37	121.01	2.64	2.60	98	H884525	4.0	26	0.16	0.47	754	5.88	
121.01	124.00	2.99	2.78	93	H884527	6.0	26	0.02	0.22	109	1.05	
124.00	126.49	2.49	2.32	93	H884528	4.0	26	0.02	0.13	76	0.53	
126.49	128.12	1.63	1.21	74	H884529	2.0	26	0.04	0.40	391	1.87	
128.12	131.06	2.94	2.14	73	H884530	3.5	26	0.03	0.34	1100	1.91	
131.06	134.11	3.05	1.94	64	H884531	3.0	26	0.07	0.51	504	0.79	
134.11	137.16	3.05	2.03	67	H884532	3.0	26	0.10	0.70	1090	0.41	
137.16	139.00	1.84	0.71	39	H884533	1.0	26	0.02	0.24	741	0.17	
139.00	141.73	2.73	1.52	56	H884534	2.0	26	0.04	0.16	376	0.42	
141.73	144.06	2.33	2.03	87	H884535	4.0	27	0.03	0.19	351	0.18	
144.06	146.30	2.24	1.55	69	H884586	2.0	28	0.01	0.52	137	0.05	
146.30	149.05	2.75	1.58	57	H884587	2.0	28	0.01	0.51	148	0.06	
149.05	151.94	2.89	2.00	69	H884588	3.0	28	0.01	0.98	301	0.66	
151.94	154.91	2.97	1.06	36	H884589	2.0	28	0.02	0.63	188	1.09	
154.91	156.97	2.06	0.63	31	H884590	1.0	28	0.03	1.16	387	1.05	
156.97	158.50	1.53	0.12	8	H884591	0.5	28	0.01	0.55	224	0.22	
158.50	161.54	3.04	1.75	58	H884592	3.0	28	0.10	0.84	402	0.32	
161.54	163.68	2.14	1.21	57	H884593	1.5	28	0.02	1.00	456	0.14	
-	-	-			H884513	4.0	26	0.01	0.07	303	1.80	Blank

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H884516	0.3	26	0.49	0.87	4790	97.00	Standard R-1
-	-	-			H884522	0.3	26	1.45	1.48	26900	317.00	Standard R-2
118.37	121.01	2.64	2.60	98	H884526	2.0	26	0.17	0.49	733	5.92	Duplicate

DENSITY LOG

HOLE: Rau-09-39

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
9.17	LST	FOS		14.8	4.2	581.2	364.4	2.83	2.68
18.40	LST	FOS		14.6	4.2	580.0	365.1	2.87	2.70
38.15	LST	FOS		14.5	4.2	570.0	359.4	2.84	2.71
93.00	LST			14.8	4.2	591.7	374.0	2.89	2.72
113.30	LST	ALT		14.9	4.2	435.8	246.0	2.11	2.30
120.00	LST	ALT		14.7	4.2	501.3	305.6	2.46	2.56
125.35	LST	ALT		14.6	4.2	539.4	342.8	2.67	2.74
143.20	LST	ALT		14.5	4.2	533.0	335.2	2.65	2.69

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-39

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
2.00	LST	FOS	0.02	
3.00	LST	FOS	0.02	
4.00	LST	FOS	0.04	
5.00	LST	FOS	0.02	
6.00	LST	FOS	0.10	
7.00	LST	FOS	0.45	
8.00	LST	FOS	0.06	
9.00	LST	FOS	0.00	
10.00	LST	FOS	0.02	
11.00	LST	FOS	0.06	
12.00	LST	FOS	0.02	
13.00	LST	FOS	0.04	
14.00	LST	FOS	0.04	
15.00	LST	FOS	0.04	
16.00	LST	FOS	0.24	
17.00	LST	FOS	0.06	
18.00	LST	FOS	0.02	
19.00	LST	FOS	0.02	
20.00	LST	FOS	0.06	
21.00	LST	FOS	0.04	
22.00	LST	FOS	0.02	
23.00	LST	FOS	0.02	
24.00	LST	FOS	0.00	
25.00	LST	FOS	0.02	
26.00	LST	FOS	0.10	
27.00	LST	FOS	0.26	
28.00	OX	CLY	0.14	
29.00	OX	CLY	0.02	
30.00	OX	CLY	0.02	
31.00	OX	CLY	0.02	
32.00	OX	CLY	0.02	
33.00	OX	CLY	0.47	
34.00	OX	CLY	0.02	
35.00	OX	CLY	0.04	
36.00	OX	CLY	0.02	
37.00	OX	CLY	0.02	
38.00	OX	CLY	0.06	
39.00	OX	CLY	0.02	
40.00	OX	CLY	0.02	
41.00	OX	CLY	0.02	
42.00	OX	CLY	0.02	
43.00	OX	CLY	0.00	
44.00	OX	CLY	0.49	
45.00	OX	CLY	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
46.00	OX	CLY	0.02	
47.00	OX	CLY	0.04	
48.00	OX	CLY	0.02	
49.00	OX	CLY	0.04	
50.00	LST		0.02	
51.00	LST		0.00	
52.00	LST		0.02	
53.00	LST		0.04	
54.00	LST		0.02	
55.00	LST		0.30	
56.00	LST		0.00	
57.00	LST		0.06	
58.00	LST		0.02	
59.00	LST		0.02	
60.00	LST		0.04	
61.00	LST		0.04	
62.00	LST		0.02	
63.00	LST		0.02	
64.00	LST		0.04	
65.00	LST		0.02	
66.00	LST		0.04	
67.00	LST		0.04	
68.00	LST		0.10	
69.00	LST		0.00	
70.00	LST		0.02	
71.00	LST		0.04	
72.00	LST		0.10	
73.00	LST		0.10	
74.00	LST		0.02	
75.00	LST		0.06	
76.00	LST		0.04	
77.00	LST		0.04	
78.00	LST		0.04	
79.00	LST		0.22	
80.00	LST		0.02	
81.00	LST		0.02	
82.00	LST		0.02	
83.00	LST		0.00	
84.00	LST		0.02	
85.00	LST		0.04	
86.00	LST		0.00	
87.00	LST		0.12	
88.00	LST		0.00	
89.00	LST		0.02	
90.00	LST		0.02	
91.00	LST		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
92.00	LST		0.02	
93.00	LST		0.00	
94.00	LST		0.22	
95.00	LST		0.02	
96.00	OX	CLY	0.36	
97.00	OX	CLY	0.32	
98.00	OX	CLY	0.96	
99.00	OX	CLY	0.26	
100.00	OX	CLY	0.43	
101.00	OX	CLY	0.04	
102.00	OX	CLY	0.06	
103.00	OX	CLY	0.51	
104.00	LST	ALT	0.22	
105.00	LST	ALT	0.06	
106.00	LST	ALT	0.04	
107.00	LST	ALT	0.14	
108.00	LST	ALT	0.06	
109.00	LST	ALT	0.10	
110.00	LST	ALT	0.08	
111.00	LST	ALT	0.12	
112.00	LST	ALT	0.08	
113.00	LST	ALT	0.06	
114.00	LST	ALT	0.08	
115.00	LST	ALT	0.16	
116.00	LST	ALT	0.12	
117.00	LST	ALT	0.08	
118.00	LST	ALT	0.14	
119.00	LST	ALT	0.06	
120.00	LST	ALT	0.04	
121.00	LST	ALT	0.08	
122.00	LST	ALT	0.16	
123.00	LST	ALT	0.18	
124.00	LST	ALT	0.06	
125.00	LST	ALT	0.02	
126.00	LST	ALT	0.18	
127.00	LST	ALT	0.02	
128.00	LST	ALT	0.08	
129.00	LST	ALT	0.41	
130.00	LST	ALT	0.10	
131.00	LST	ALT	1.53	
132.00	LST	ALT	0.04	
133.00	LST	ALT	0.06	
134.00	LST	ALT	0.14	
135.00	LST	ALT	0.55	
136.00	LST	ALT	0.32	
137.00	LST	ALT	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
138.00	LST	ALT	0.02	
139.00	LST	ALT	0.61	
140.00	LST	ALT	0.02	
141.00	LST	ALT	0.02	
142.00	LST	ALT	0.02	
143.00	LST	ALT	0.41	
144.00	LST	ALT	0.00	
145.00	LST	ALT	0.04	
146.00	LST	ALT	0.10	
147.00	LST	ALT	0.04	
148.00	LST	ALT	0.10	
149.00	LST	ALT	0.08	
150.00	LST	ALT	0.06	
151.00	LST	ALT	0.02	
152.00	LST	ALT	0.12	
153.00	LST	ALT	0.02	
154.00	LST	ALT	0.06	
155.00	LST	ALT	0.02	
156.00	LST	ALT	0.06	
157.00	LST	ALT	0.04	
158.00	LST	ALT	0.04	
159.00	LST	ALT	0.08	
160.00	LST	ALT	0.04	
161.00	LST	ALT	0.06	
162.00	LST	ALT	0.08	
163.00	LST	ALT	0.10	

BOX LOG

HOLE: Rau-09-39

BOX	FROM (m)	TO (m)
1.00	1.20	6.10
2.00	6.10	11.47
3.00	11.47	16.76
4.00	16.76	21.66
5.00	21.66	26.87
6.00	26.87	32.08
7.00	32.08	37.13
8.00	37.13	42.33
9.00	42.33	47.25
10.00	47.25	52.90
11.00	52.90	58.29
12.00	58.29	63.28
13.00	63.28	68.12
14.00	68.12	73.15
15.00	73.15	78.60
16.00	78.60	83.39
17.00	83.39	88.27
18.00	88.27	93.65
19.00	93.65	98.98
20.00	98.98	104.88
21.00	104.88	110.53
22.00	110.53	116.28
23.00	116.28	122.78
24.00	122.78	129.42
25.00	129.42	135.85
26.00	135.85	144.06
27.00	144.06	151.04
28.00	151.04	156.97
29.00	156.97	163.68
	163.68	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+200W

HOLE: Rau-09-40
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528364	7119199	1293	159.41

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ (205' NQ2)
Casing depth: 22.55 (m) out

Drilling dates: July 23 - 27

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.72	3.72	OVB	
3.72	7.01	3.29	LST	Rubble
7.01	22.38	15.37	OX	Clay rich
22.38	29.98	7.60	DOL	Altered
29.98	43.30	13.32	OX	Contains strongly altered dolomite
43.30	63.70	20.40	DOL	
63.70	81.92	18.22	LST	Altered
81.92	105.75	23.83	DOL	Altered, crackled
105.75	115.81	10.06	LST	Altered
115.81	126.00	10.19	FLT	
126.00	143.80	17.80	LEP	Volcaniclastic
143.80	159.41	15.61	LST	Brecciated

SAMPLES	
Numbers:	H884479-H884510, H884568-H884585
	Batches 25,26,27,28
Total:	50
Date sent:	
Certificate:	VA09078180, VO09087123, VO09087124
	VO09087122

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-40

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.72	3.72	OVB																			
3.72	7.01	3.29	LST	RBL		BD	50															Medium grey rubbly limestone with quite poor recovery. Mostly just rounded cobbles.
																						4.15-5.49 m: Medium grey calcareous gritty clay with fragments of limonite and red-brown siderite. Medium orange-brown and red-brown gritty oxide clay. Yellow mica flakes occur scattered throughout (1%). A few competent fragments of very altered coarse grained dolomite occur.
7.01	22.38	15.37	OX	CLY									Sid	ms								Medium orange-brown and red-brown gritty oxide clay. Yellow mica flakes occur scattered throughout (1%). A few competent fragments of very altered coarse grained dolomite occur.
						BD	45															11.37-11.58 m: Coarse breccia texture occurs in oxide. Clasts are dark red-brown-angular 0.2-1.5 cm in diameter. The matrix is orange. Faint bedding orientation at 45 deg to Ca.
						BD	50															16.00-21.50 m: Faint bedding occurs at 50 deg to CA.
																						18.67-18.96 m: Very altered residual dolomite occurs. (colour 7.5 YR 3/4 - dark brown).
22.38	29.98	7.60	DOL	ALT		FR							Sid	ms	w							Medium beige-grey coarse grained dolomite with varying degrees of alteration from relatively fresh to strongly sideritic. Fracture sets run at 20 and 40 deg to CA. The ones at 40 deg have associated medium grained sub-euhedral pyrite grains scattered along them.
													Sid	I								24.27-25.30 m: Intensely siderite altered zone, slightly vuggy, and dark brown in colour.
																						25.50-26.55 m: Very rubbly/sandy zone of oxidized sulphide that is yellow-orange-brown and dark brown altered dolomite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
29.98	43.30	13.32	OX	RBL											w	w						Mixture of sandy clay oxide with limonite and siderit fragments and fairly to strongly altered dolomite. Residual sulphide patches in the dolomite still contain only weakly oxidized Asp, which is more resistant than the surrounding dolomite. The oxide is a mix of medium brown gritty/sandy clay covering limonite fragments, and medium orange-brown and red-brown vuggy limonite fragments. Can distinguish a honeycomb texture of bright orange spots in a dark red brown oxide clay.
43.30	63.70	20.40	DOL												w	w						Very coarse grained light grey to beige dolomite with weak small to medium sized patches of Py and As occur scattered throughout increasing in concentration to fair at 57.10 m.
			LST	ALT					m													43.30-43.47 m: Brecciated dolomitized limestone.
																						43.47-48.16 m: Crackle fractures cut the unit at many angles. They contain oxidized sulphides in some cases.
						FR	10															48.16-57.10 m: Fractured surfaces have a weak yellow-brown alteration colouration. Fractures commonly occur at 10 deg to CA.
						BD	30			w					f	w						57.10-63.70 m: Increase in the concentration of sulphides to fair. Sericite bands irregularly cut the dolomite at ~ 30 deg to CA. 4-20 cm thick.
63.70	81.92	18.22	LST	ALT		VN	45		f						w	t						Medium to dark grey fairly dolomitized limestone with white gritty zones and cross cutting very coarse grained (snake skin) dolomite veins 1-15 cm thick cutting at 45 deg to CA. Within these veins there is trace patchy Asp and weak patchy Py. Thin 0.3-1 cm fine grained dolomite veins cut at 10 deg to CA.
						VN	10															
						VN	60								t	t						68.26-67.03 m: Concentrated zone of dolomite flood. Coarse grained dolomite veins cut it at 60 de to CA. They are 3-6 mm thick and contain trace disseminated very fine grained pyrite and arsenopyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
			LST	FOS		VN	30		w													67.03-74.87 m: Less dolomitized limestone with trace crinoid stem fragments. Occasional coarse grained dolomite veins cut at 30 deg to CA. No sign of any mineralization.
			LST	FOS	CR	FR	40															74.87-79.05 m: Zone of weak to moderately strong crackle brecciation of the weakly dolomitized weakly fossiliferous limestone. Tension cracks occur at 40 deg to CA. Weakly dolomitized Ca veins cut at 40-45 deg to CA. Weak yellowy-orange staining occurs on some fractured surfaces.
						VN	45															
			LST		BN	BD	30															79.05-81.92 m: Finely banded medium to dark grey limestone becoming weakly crackle brecciated toward the bottom of the interval.
81.92	105.75	23.83	DOL	ALT	CR	FR	20															Light to medium grey crackle brecciated fine grained dolomite with coarse grained dolomite veins cutting the interval. A second phase of fine crackle fractures overprints the dolomite veins at 20 deg to CA. Slight yellowy to pink alteration stains the dolomite (Rhodochrosite?). It becomes fairly altered from 80.50-82.35 m.
						VN	25															
						VN	15															101.10-101.65 m: 3-5 cm medium brown, altered very coarse grained Ca vein (vugs occur between crystals).
105.75	115.81	10.06	LST	ALT	CR	VN	45		ms													Medium to dark grey dolomitized limestone with fair crackle texture and complex suite of cross cutting calcite veins. These veins are slightly to fairly altered with light to medium brown alteration colouration. Vein orientations include 45,30,35 deg to CA with fine grained Ca veins at 45 deg, and medium grained dolomite veins at 35° to CA.
						VN	35															
																						108.25-108.40 m: Medium taupe-grey clay. It is a very clean, thick clay, similar to what a potter would use.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
115.81	126.00	10.19	FLT			FO	40															A very altered and in zones quite rubbly mixture of mudstone and medium grey fossiliferous limestone. The limestone has a strong structural fabric in zones. Parts of the interval are very rubbly.
																						115.81-117.05 m: Highly strained zone oriented at 40 deg to CA. The dark grey mudstone is strongly fluid altered almost to clay. Pink/red tinted layers occur within (hematite?).
															t							117.05-121.01 - Mainly medium grey fossiliferous limestone with a few 1-4 cm zones of highly foliated altered mudstone. Minor fine grained pyrite occurs in cross cutting fractures at 50 deg to CA in the more strongly altered zones.
						FO	60								w							121.10-126.00 m: Strongly structurally deformed mudstone with signs of crenulation cleavage at 60 deg to CA. Pyrite occurs along calcite rich bands. Weak (1-3 %) overall.
																						124.36-124.60 m: Very rubbly zone with clay coatings on the fractures.
126.00	143.80	17.80	LEP			FO	40								f							Medium grey leopard spotted volcaniclastic with moderate to strong concentration biotite. As the biotite content of the interval increases the colour of the rock becomes more brown. Pyrite occurs as disseminations to concentrated patches - fair overall. The unit has a weak to strong structural fabric at 40 deg to CA.
															ms							126.00-126.98 m: Concentrated zone of heavily disseminated pyrite.
															ms							126.00-1216.98 m: Concentrated zone of heavily disseminated pyrite.
																						126.98-131.14 m: The leopard volcaniclastic is interbanded with non-printed limestone. Bands occur at 40 deg to CA. 75% LEP, 25% LST.
						VN	40			f					w							131.14-134.34 m: Slight increase in the concentration of biotite. Thin (1-3 cm) sericite bands occur semi-frequently at 40 deg to CA. Pyrite is weakly disseminated throughout.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						134.34-135.33 m: Bleached slightly rubbly zone. Surface has a pitted appearance.
						VN	40			w					f							135.33-143.80 m: Greenish-grey moderately altered leopard print limestone with fair to moderate very fine grained pyrite disseminated throughout. Small patches of sericite alteration. The more altered zones contain less biotite and have a much fainter texture. Rare Ca veins cut the unit 40 deg to CA.
143.80	159.41	15.61	LST		BX																	Weakly dolomitized fluid collapse brecciated limestone with trace black, slightly soft (graphitic?) patches.
						FO	40								ms							143.80-144.40 m: Zone of black shale with concentrated pyrite replacing Ca zones. Strong structural fabric occurs at 40 deg to CA.
																						159.41 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-40

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.72	3.96	0.24	0.24	100	0.00	0	MS	SW	
3.96	5.49	1.53	0.24	16	0.00	0	MS	SW	
5.49	7.01	1.52	0.11	7	0.00	0	MS	SW	
7.01	8.53	1.52	0.43	28	0.00	0	VW	HW	
8.53	10.06	1.53	0.69	45	0.00	0	VW	HW	
10.06	11.58	1.52	1.09	72	0.00	0	VW	HW	
11.58	13.11	1.53	0.15	10	0.12	8	VW	HW	
13.11	14.63	1.52	0.00	0	0.00	0	-	-	
14.63	16.15	1.52	0.00	0	0.00	0	-	-	
16.15	17.68	1.53	0.38	25	0.00	0	VW	HW	
17.68	19.20	1.52	1.31	86	0.00	0	VW	HW	
19.20	20.73	1.53	0.66	43	0.00	0	VW	HW	
20.73	22.25	1.52	0.73	48	0.00	0	VW	HW	
22.25	23.77	1.52	0.50	33	0.25	16	MS	MW	
23.77	25.30	1.53	1.08	71	0.53	35	MS	MW	
25.30	26.82	1.52	1.28	84	0.29	19	MS	MW	
26.82	28.35	1.53	0.63	41	0.34	22	MS	MW	
28.35	29.87	1.52	1.15	76	0.70	46	MS	SW	
29.87	31.39	1.52	1.00	66	0.00	0	W	MW	
31.39	32.92	1.53	1.40	92	0.00	0	W	MW	
32.92	34.44	1.52	1.17	77	0.15	10	W	HW	
34.44	35.97	1.53	0.77	50	0.16	10	W	HW	
35.97	37.49	1.52	0.00	0	0.00	0	-	-	
37.49	39.01	1.52	1.00	66	0.00	0	W	HW	
39.01	40.54	1.53	0.36	24	0.17	11	W	HW	
40.54	42.06	1.52	0.11	7	0.00	0	W	HW	
42.06	43.59	1.53	0.59	39	0.29	19	W	HW	
43.59	45.11	1.52	1.40	92	1.22	80	S	SW	
45.11	46.63	1.52	1.52	100	0.61	40	S	SW	
46.63	48.16	1.53	1.27	83	0.61	40	S	SW	
48.16	49.68	1.52	1.52	100	0.73	48	S	SW	
49.68	51.21	1.53	1.28	84	0.74	48	S	SW	
51.21	52.73	1.52	1.52	100	1.23	81	S	SW	
52.73	54.25	1.52	1.52	100	1.18	78	S	SW	
54.25	55.78	1.53	1.42	93	1.37	90	S	SW	
55.78	57.30	1.52	1.52	100	1.09	72	S	SW	
57.30	58.83	1.53	1.43	93	1.15	75	S	SW	
58.83	60.35	1.52	1.41	93	0.74	49	S	SW	
60.35	61.87	1.52	1.52	100	1.40	92	S	SW	
61.87	63.40	1.53	1.53	100	1.02	67	S	SW	
63.40	64.92	1.52	1.53	101	1.08	71	S	SW	
64.92	66.45	1.53	1.53	100	1.04	68	S	SW	
66.45	67.97	1.52	1.48	97	1.21	80	S	SW	
67.97	69.49	1.52	1.52	100	1.07	70	S	SW	
69.49	71.02	1.53	1.53	100	1.05	69	S	SW	
71.02	72.54	1.52	1.52	100	1.09	72	S	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.06	1.52	1.44	95	1.34	88	S	FR	
74.06	75.59	1.53	1.53	100	1.53	100	S	FR	
75.59	77.11	1.52	1.50	99	1.35	89	S	FR	
77.11	78.64	1.53	1.53	100	1.36	89	S	FR	
78.64	80.16	1.52	1.50	99	1.39	91	S	FR	
80.16	81.69	1.53	1.53	100	1.20	78	S	FR	
81.69	83.21	1.52	1.43	94	1.41	93	S	FR	
83.21	84.73	1.52	1.52	100	1.52	100	S	FR	
84.73	86.26	1.53	1.45	95	1.33	87	S	FR	
86.26	87.78	1.52	1.52	100	1.13	74	S	FR	
87.78	89.31	1.53	1.53	100	1.53	100	S	FR	
89.31	90.83	1.52	1.52	100	1.52	100	S	FR	
90.83	92.35	1.52	1.48	97	1.48	97	S	FR	
92.35	93.88	1.53	1.40	92	1.22	80	S	FR	
93.88	95.40	1.52	1.52	100	1.28	84	S	FR	
95.40	96.93	1.53	0.69	45	0.58	38	S	FR	
96.93	99.97	3.04	3.04	100	2.70	89	MS	FR	
99.97	103.02	3.05	3.05	100	3.04	100	MS	FR	
103.02	106.07	3.05	2.91	95	2.49	82	MS	FR	
106.07	109.12	3.05	2.81	92	2.32	76	MS	FR	
109.12	112.17	3.05	3.05	100	3.05	100	MS	FR	
112.17	115.21	3.04	2.99	98	2.76	91	MS	FR	
115.21	118.26	3.05	2.91	95	1.69	55	MS	SW	
118.26	121.31	3.05	2.83	93	1.42	47	MS	SW	
121.31	124.36	3.05	3.05	100	1.77	58	MS	FR	
124.36	127.41	3.05	2.97	97	2.43	80	MS	FR	
127.41	130.45	3.04	3.04	100	2.76	91	MS	FR	
130.45	133.50	3.05	3.02	99	2.72	89	MS	FR	
133.50	136.55	3.05	3.05	100	2.17	71	MS	FR	
136.55	139.60	3.05	2.98	98	2.12	70	MS	FR	
139.60	142.65	3.05	2.98	98	2.23	73	MS	FR	
142.65	145.69	3.04	3.04	100	1.82	60	MS	FR	
145.69	148.74	3.05	3.05	100	2.73	90	MS	FR	
148.74	151.79	3.05	2.68	88	2.50	82	MS	FR	
151.79	154.84	3.05	3.05	100	3.05	100	MS	FR	
154.84	157.89	3.05	3.05	100	3.05	100	MS	FR	
157.89	159.41	1.52	1.50	99	1.50	99	MS	FR	
	159.41	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-40

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.72	5.49	1.77	0.47	27	H884479	1.0	25	0.04	1.85	277	15.15	
5.49	7.01	1.52	0.08	5	H884480	0.5	25	0.05	0.65	2060	34.20	
7.01	10.06	3.05	1.12	37	H884481	3.0	25	1.76	2.91	>10000	291.00	
10.06	11.58	1.52	1.17	77	H884483	3.0	25	2.99	0.28	>10000	986.00	
11.58	13.11	1.53	0.17	11	H884485	0.5	25	0.24	0.05	2400	8.84	
16.15	19.20	3.05	1.88	62	H884486	6.0	25	0.76	0.92	8920	398.00	
19.20	20.73	1.53	0.66	43	H884487	2.5	25	1.86	4.51	>10000	1130.00	
20.73	22.38	1.65	0.79	48	H884488	2.0	25	1.23	2.03	>10000	1160.00	
22.38	25.30	2.92	1.46	50	H884489	4.0	25	0.02	0.37	1520	69.10	
25.30	26.82	1.52	1.25	82	H884490	4.5	25	0.07	0.09	351	777.00	
26.82	28.35	1.53	0.60	39	H884491	2.0	25	<0.01	0.16	58	60.50	
28.35	29.98	1.63	1.27	78	H884492	4.5	25	<0.01	0.13	52	55.80	
29.98	32.92	2.94	2.28	78	H884493	8.0	25	0.04	1.70	1010	158.50	
32.92	34.44	1.52	1.19	78	H884494	3.0	25	0.04	0.22	631	359.00	
34.44	35.97	1.53	0.78	51	H884495	2.0	25	0.15	0.08	1920	1485.00	
37.49	39.01	1.52	1.00	66	H884496	2.0	25	0.23	0.88	3850	390.00	
39.01	40.54	1.53	0.32	21	H884497	1.0	25	0.19	1.19	4670	156.00	
40.54	42.06	1.52	0.14	9	H884498	0.3	25	0.43	2.27	9690	307.00	
42.06	43.32	1.26	0.32	25	H884499	1.0	26	0.03	0.21	1860	6.11	
43.32	45.11	1.79	1.61	90	H884500	6.0	26	0.01	0.22	396	7.89	
45.11	48.16	3.05	2.86	94	H884501	11.0	26	0.02	0.37	217	19.15	
48.16	51.21	3.05	1.86	61	H884502	10.5	26	0.01	0.26	133	3.80	
51.21	54.25	3.04	3.04	100	H884503	13.5	26	0.01	0.22	217	4.13	
54.25	57.30	3.05	3.05	100	H884504	12.5	26	0.01	0.21	58	2.44	
57.30	58.96	1.66	1.54	93	H884506	6.0	26	0.01	0.26	109	630.00	
58.96	61.87	2.91	2.85	98	H884507	11.0	26	0.02	0.06	133	198.00	
61.87	63.70	1.83	1.80	98	H884508	7.0	26	0.01	0.63	50	70.40	
63.70	66.45	2.75	2.75	100	H884509	11.0	26	0.02	0.37	59	6.72	
66.45	69.49	3.04	2.96	97	H884510	12.0	26	0.04	4.01	105	58.30	
113.00	115.81	2.81	2.76	98	H884568	8.5	27	0.01	0.22	31	1.80	
115.81	117.05	1.24	1.12	90	H884569	3.0	27	0.03	0.13	349	17.65	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
117.05	119.00	1.95	1.82	93	H884570	5.5	27	0.06	0.44	218	9.02	
119.00	121.10	2.10	2.01	96	H884571	5.5	28	0.05	1.23	146	6.39	
121.10	124.00	2.90	2.89	100	H884572	8.0	28	0.12	0.91	72	7.12	
124.00	126.00	2.00	1.94	97	H884573	5.0	28	0.03	0.45	86	0.95	
126.00	129.06	3.06	2.98	97	H884574	8.0	28	0.01	0.42	127	0.61	
129.06	131.14	2.08	2.08	100	H884576	6.0	28	<0.01	0.14	84	0.79	
131.14	134.34	3.20	3.20	100	H884577	8.5	28	<0.01	0.15	16	0.20	
134.34	135.33	0.99	0.93	94	H884578	2.0	28	0.01	0.32	86	0.44	
135.33	138.07	2.74	2.74	100	H884579	8.0	28	<0.01	0.30	30	0.84	
138.07	140.90	2.83	2.75	97	H884580	8.0	28	0.01	0.30	39	0.54	
140.90	143.80	2.90	2.74	94	H884582	8.0	28	0.01	0.18	73	2.12	
143.80	144.40	0.60	0.60	100	H884583	1.0	28	0.02	1.77	494	24.30	
144.40	146.37	1.97	1.97	100	H884585	5.5	28	<0.01	0.15	33	0.48	
-	-	-			H884482	0.3	25	0.48	0.83	5920	93.80	Standard R-1
-	-	-			H884484	4.0	25	<0.01	0.02	83	1.63	Blank
-	-	-			H884505	4.0	26	<0.01	0.08	<5	0.05	Blank
-	-	-			H884575	0.3	28	1.56	1.62	26500	342.00	Standard R-2
138.07	140.90	2.83	2.75	97	H884581	3.5	28	<0.01	0.28	41	0.58	Duplicate
-	-	-			H884584	4.0	28	<0.01	0.10	7	0.16	Blank

DENSITY LOG

HOLE: Rau-09-40

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
25.35	DOL	ALT		14.8	6.1	1260.8	803.3	2.90	2.76
56.90	DOL			14.8	6.1	1306.3	856.6	3.00	2.90
57.40	DOL			14.8	6.1	1319.7	863.4	3.03	2.89
76.70	LST	ALT		14.4	6.1	1177.2	760.9	2.78	2.83
79.00	LST	ALT		14.6	6.1	1121.1	701.2	2.61	2.67
85.70	DOL	ALT		14.6	6.1	1209.3	755.5	2.82	2.66
94.00	DOL	ALT		14.9	6.1	1173.5	780.3	2.68	2.98
102.75	DOL	ALT		14.6	5.1	817.0	526.2	2.76	2.81
129.00	LST			14.6	5.1	831.0	539.7	2.81	2.85
136.35	LEP			14.8	5.1	877.7	583.1	2.93	2.98
140.20	LEP			14.8	5.1	869.0	574.2	2.90	2.95
153.70	LST			15.0	5.1	872.4	571.3	2.87	2.90

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-40

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
4.00	LST		0.00	
5.00	LST		0.94	
6.00	LST		0.00	
7.00	LST		0.25	
8.00	OX	CLY	0.43	
9.00	OX	CLY	0.31	
10.00	OX	CLY	0.45	
11.00	OX	CLY	0.75	
12.00	OX	CLY	0.15	
13.00	OX	CLY	0.18	
14.00	OX	CLY	-	
15.00	OX	CLY	-	
16.00	OX	CLY	-	
17.00	OX	CLY	0.43	
18.00	OX	CLY	0.26	
19.00	OX	CLY	0.47	
20.00	OX	CLY	0.43	
21.00	OX	CLY	0.52	
22.00	OX	CLY	0.28	
23.00	DOL	ALT	0.16	
24.00	DOL	ALT	0.26	
25.00	DOL	ALT	0.16	
26.00	DOL	ALT	0.23	
27.00	DOL	ALT	0.25	
28.00	DOL	ALT	0.18	
29.00	DOL	ALT	0.26	
30.00	OX	RBL	0.10	
31.00	OX	RBL	0.47	
32.00	OX	RBL	0.33	
33.00	OX	RBL	0.23	
34.00	OX	RBL	0.25	
35.00	OX	RBL	0.11	
36.00	OX	RBL	-	
37.00	OX	RBL	-	
38.00	OX	RBL	0.55	
39.00	OX	RBL	0.62	
40.00	OX	RBL	0.43	
41.00	OX	RBL	0.30	
42.00	OX	RBL	0.30	
43.00	OX	RBL	0.08	
44.00	DOL		0.35	
45.00	DOL		0.20	
46.00	DOL		0.30	
47.00	DOL		0.35	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
48.00	DOL		0.35	
49.00	DOL		0.11	
50.00	DOL		0.21	
51.00	DOL		0.30	
52.00	DOL		0.31	
53.00	DOL		0.38	
54.00	DOL		0.30	
55.00	DOL		0.33	
56.00	DOL		0.36	
57.00	DOL		0.43	
58.00	DOL		0.21	
59.00	DOL		0.15	
60.00	DOL		0.26	
61.00	DOL		0.33	
62.00	DOL		0.18	
63.00	DOL		0.38	
64.00	DOL		0.16	
65.00	DOL		0.15	
66.00	DOL		0.26	
67.00	DOL		0.25	
68.00	LST	ALT	0.20	
69.00	LST	ALT	0.10	
70.00	LST	ALT	0.23	
71.00	LST	ALT	0.21	
72.00	LST	ALT	0.11	
73.00	LST	ALT	0.10	
74.00	LST	ALT	0.06	
75.00	LST	ALT	0.15	
76.00	LST	ALT	0.11	
77.00	LST	ALT	0.08	
78.00	LST	ALT	0.06	
79.00	LST	ALT	0.06	
80.00	LST	ALT	0.08	
81.00	LST	ALT	0.05	
82.00	DOL	ALT	0.08	
83.00	DOL	ALT	0.08	
84.00	DOL	ALT	0.25	
85.00	DOL	ALT	0.05	
86.00	DOL	ALT	0.03	
87.00	DOL	ALT	0.10	
88.00	DOL	ALT	0.01	
89.00	DOL	ALT	0.03	
90.00	DOL	ALT	0.08	
91.00	DOL	ALT	0.01	
92.00	DOL	ALT	0.00	
93.00	DOL	ALT	0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
94.00	DOL	ALT	0.03	
95.00	DOL	ALT	0.00	
96.00	DOL	ALT	0.01	
97.00	DOL	ALT	0.10	
98.00	DOL	ALT	0.03	
99.00	DOL	ALT	0.05	
100.00	DOL	ALT	0.05	
101.00	DOL	ALT	0.01	
102.00	DOL	ALT	0.05	
103.00	DOL	ALT	0.01	
104.00	DOL	ALT	0.03	
105.00	DOL	ALT	0.18	
106.00	LST	ALT	0.10	
107.00	LST	ALT	0.14	
108.00	LST	ALT	0.18	
109.00	LST	ALT	0.05	
110.00	LST	ALT	0.05	
111.00	LST	ALT	0.03	
112.00	LST	ALT	0.14	
113.00	LST	ALT	0.09	
114.00	LST	ALT	0.09	
115.00	LST	ALT	0.07	
116.00	FLT		0.20	
117.00	FLT		0.14	
118.00	FLT		0.23	
119.00	FLT		0.45	
120.00	FLT		0.25	
121.00	FLT		0.27	
122.00	FLT		0.40	
123.00	FLT		0.40	
124.00	FLT		0.42	
125.00	FLT		0.20	
126.00	FLT		0.29	
127.00	LEP		1.79	
128.00	LEP		4.55	
129.00	LEP		0.42	
130.00	LEP		0.34	
131.00	LEP		0.29	
132.00	LEP		0.31	
133.00	LEP		0.23	
134.00	LEP		0.20	
135.00	LEP		0.23	
136.00	LEP		0.23	
137.00	LEP		0.40	
138.00	LEP		0.18	
139.00	LEP		0.34	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
140.00	LEP		0.21	
141.00	LEP		0.67	
142.00	LEP		0.23	
143.00	LEP		0.18	
144.00	LST		0.10	
145.00	LST		0.09	
146.00	LST		0.00	
147.00	LST		0.18	
148.00	LST		0.03	
149.00	LST		0.05	
150.00	LST		0.01	
151.00	LST		0.00	
152.00	LST		0.03	
153.00	LST		0.01	
154.00	LST		0.01	
155.00	LST		0.01	
156.00	LST		0.01	
157.00	LST		0.00	
158.00	LST		0.03	
159.00	LST		0.03	

BOX LOG

HOLE: Rau-09-40

BOX	FROM (m)	TO (m)
1	3.72	11.58
2	11.58	22.12
3	22.12	28.60
4	28.60	33.05
5	33.05	42.32
6	42.32	47.17
7	47.17	51.21
8	51.21	55.08
9	55.08	58.96
10	58.96	63.02
11	63.02	66.70
12	66.70	70.69
13	70.69	74.74
14	74.74	78.77
15	78.77	82.48
16	82.48	86.87
17	86.87	90.54
18	90.54	94.57
19	94.57	99.40
20	99.40	103.68
21	103.68	108.01
22	108.01	112.28
23	112.28	116.70
24	116.70	120.93
25	120.93	124.85
26	124.85	129.06
27	129.06	133.40
28	133.40	137.52
29	137.52	141.86
30	141.86	145.96
31	145.96	150.56
32	150.56	154.74
33	154.74	158.57
34	158.57	159.41
	159.41	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+350W

HOLE: Rau-09-41
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528311	7119352	1378	188.98

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-75	compass				

Core size: BTW
Casing depth: 3.04 (m) out

Drilling dates: July 27 - 30, 2009

Logged by: M. Dumala

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.05	3.05	OVB	
3.05	27.89	24.84	LST	Rubbly
27.89	71.63	43.74	LST	Fossiliferous
71.63	96.10	24.47	OX	QZ rubble over last 30 cm
96.10	97.54	1.44	LST	
97.54	98.58	1.04	OX	Clay rich
98.58	126.44	27.86	LST	Crackle, weak to moderate oxidation
126.44	136.67	10.23	OX	
136.67	143.55	6.88	LST	
143.55	144.80	1.25	OX	
144.80	149.20	4.40	LST	Brecciated
149.20	152.14	2.94	OX	
152.14	169.00	16.86	VOL	Oxidized altered volcanic
169.00	172.21	3.21	OX	
172.21	179.85	7.64	VOL	Altered
179.85	182.50	2.65	VOL	Oxidized and vuggy
182.50	188.98	6.48	LST	Brecciated, 30 cm sand seam at top

SAMPLES	
Numbers:	H884623-H884665, H884675-H884695
	Batches 29, 30, 31
Total:	64
Date sent:	
Certificate:	VO09087193, VO09087194, VO09088240

COMMENTS
Rods stuck at 600', blasted lower 50' off to free the string.

GEOLOGY LOG

HOLE: Rau-09-41

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.05	3.05	OVB																			
3.05	27.89	24.84	LST	RBL	BN	BD	15						MBL	m								Medium grey, moderately marbleized, banded, rubbly limestone with medium orange-brown, slightly gritty clay coating on some fractures. Banding of the limestone varies from 15 to 35 deg to CA.
				CLY																		3.05-14.80 m: Banding in the limestone at 15 deg to CA. Tan-beige clay coating, 1 mm-3 cm, on fractures. Clay is strongly altered carbonate. 15% clay, 85% LST.
				ALT		BD	25						He	w								14.80-20.82 m: Pink-red hematite (?) stain on fractures. Bedding occurs at 25 deg to CA.
						BD	30															20.82-27.89 m: Moderate recovery of rubbly limestone with thin layers of tan (altered carbonate) clay on fractures.
27.89	71.63	43.74	LST	FOS	BN	BD	20						MBL	m								Medium-grey, moderately marbleized, moderately fossiliferous, banded limestone with dustings of tan-beige altered carbonate clay on joints. Banding occurs at 20 deg to CA. (COLOUR OF CLAY: 7.5YR 7/6 - reddish yellow)
						BD	20															27.83-33.53 m: Increasing concentration of crinoids
						BD	5															33.53-35.20 m: Bedding shallows to 5 deg to CA.
						BD	30															35.20-37.20 m: Bedding steepens to 30 deg to CA.
						BD	0															37.30-44.04 m: Bedding is near parallel to CA with rubbly zones of fissile core, coated with gritty carbonate clay. Crinoids are 0.5-1 mm and are 5% abundant.
						BD	5															44.04 m: Grey fossiliferous limestone with shear/strain texture, near parallel to core axis. Fossils form resistive centres in foliation.
																						53.90-60.50 m: Muddy patches light brown clay. (COLOUR: 10YR-7/3 - very pale brown)
						BD	35															60.50-68.25 m: Less clay altered but still rubbly limestone with bedding at 35 deg to CA.
						BD	25						MBL	f								68.25-69.90 m: Slightly marbleized limestone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
													SID	m								69.90-71.63 m: Dark brown siderite rich clay zone.
71.63	95.80	24.17	OX	CLY																		Medium to dark red brown gritty clay oxide containing 5% sand sized quartz fragments. In general the clay is texturally quite massive.
																						71.63 m: COLOUR: 5YR 4/6 - yellowish red
																						74.00 m: COLOUR: 5YR 4/6 - yellowish red
																						76.20 m: COLOUR: 7.5YR 5/8 - strong brown
																						77.75 m: COLOUR: 7.5YR 4/6 - strong brown
																						79.25 m: COLOUR: 2.5YR 3/4 - dark reddish brown
																						80.77-89.92 m: About 1% quartz clasts. Orange brown. Trace vitreous yellow-silver mica flakes.
																						82.30 m: COLOUR: 5YR 4/6 - yellowish red
			VN	20																		83.00 m: Vein occurs at 20 deg to CA.
																						85.34 m: COLOUR: 7.5YR 5/8 - strong brown
			BD	35																		85.54 m: Faint banding in the oxide occurs at 35 deg to CA.
																						89.92-95.75 m: Strong red-brown with 1-2% quartz clasts. Trace mica occurs scattered throughout.
																						90.00 m: COLOUR: 5YR 5/8 - yellowish red
																						91.50 m: COLOUR: 2.5YR 4/6 - red
																						93.00 m: COLOUR: 2.5YR 3/6 - dark red
																						94.50 m: COLOUR: 2.5YR 2.5/4 - dark reddish brown
																						95.75 m: COLOUR: 7.5YR 4/6 - strong brown
95.80	96.10	0.30	VOL	ALT																		Very fissile and extremely broken up altered light yellow volcaniclastic. The interval contains rubbly quartz fragments.
96.10	97.54	1.44	LST		FO	FO	35		f	w												Grey, strongly foliated, fairly dolomitized limestone, with sericite along foliation at 35 deg to CA.
97.54	98.58	1.04	CLY																			Yellow-brown sandy clay with sand to pebble quartz fragments. (COLOUR: 10YR 6/6 - brownish yellow)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
98.58	113.65	15.07	LST		CR							m										Rubbly, slightly carbonate altered limestone.
113.65	152.14	38.49	LST	ALT	BN	BN	30		w			w										Weakly to strongly oxidized, dolomitized limestone banded and slightly brecciated with some rubbly patches and localized oxide clay.
						BN	25					m										122.76-126.44 m: Sandy red/brown clay with banded limestone.
												s										126.44-136.67 m: Red/brown sandy clay with 40% limestone rubble.
															t							128.56 m: 2cm quartz vein with oxidized pyrite
						BN	40		w			w										136.67-143.55 m: Banding in the limestone occurs at 40 deg to CA Narrow mud patches - yellow brown (sandy with quartz)
						BN	30															140.20-143.00 m: Slightly sucrosic texture
												s										143.55-144.80 m: Orange-brown sandy clay oxide.
					BX							m										144.80-149.20 m: Grey to light grey fluid brecciated limestone with muddy orange-brown oxide representing 40% or total interval.
												s										149.20-152.14 m: Dark brown, orange-brown sandy clay.
152.14	169.00	16.86	VOL	ALT	OX	FO	50			s		s										Strongly sericite altered volcaniclastic with zones of pinkish-red oxidation colouration. The entire interval is very soft.
																						153.85 m: Red colour.
																						153.85-156.82 m: Pale green colour.
																						156.82-164.00 m: Pink colour.
																						164.00-166.12 m: Brown-red oxidized volcaniclastic with rusty leopard pattern. Rust spots in sericite matrix, all clay altered.
169.00	172.21	3.21	OX																			Dark, bright red sandy oxide clay
172.21	182.88	10.67	VOL	ALT	BN	FO	45		m	w		m								Mag	w	Grey-green where not oxidized. Reddish-brown where oxidized moderately altered volcaniclastic that is variable magnetic.
						FO	80					s										178.30-179.85 m: Orange oxidized altered volcanic
						FO	70			m		l										179.85-182.50 m: Vuggy brick red altered volcanic, heavily oxidized.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						182.50-182.88 m: Grey uniform sand.
182.88	188.98	6.10	LST		BX	FX	60		m			t										Light grey strongly brecciated limestone with minor dolomitized narrow oxidation patches around joints. Larger dolomite particles have reddish colour. Small micro fractures occur throughout.
																						188.98 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-41

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.05	4.57	1.52	0.89	59	0.00	0	MS	MW	
4.57	6.10	1.53	1.02	67	0.00	0	MS	MW	
6.10	7.62	1.52	1.17	77	0.36	24	MS	MW	
7.62	9.14	1.52	1.52	100	0.29	19	MS	MW	
9.14	10.67	1.53	1.25	82	0.10	7	MS	MW	
10.67	12.19	1.52	1.21	80	0.34	22	MS	MW	
12.19	13.72	1.53	1.21	79	0.36	24	MS	MW	
13.72	15.24	1.52	1.52	100	0.16	11	MS	MW	
15.24	16.76	1.52	1.52	100	0.00	0	MS	MW	
16.76	18.29	1.53	1.13	74	0.00	0	MS	MW	
18.29	19.81	1.52	1.52	100	0.12	8	MS	MW	
19.81	21.34	1.53	1.52	99	0.10	7	MS	MW	
21.34	22.86	1.52	1.15	76	0.00	0	MS	MW	
22.86	24.38	1.52	1.43	94	0.10	7	MS	MW	
24.38	25.91	1.53	0.83	54	0.00	0	MS	SW	
25.91	26.37	0.46	0.32	70	0.00	0	MS	SW	
26.37	26.67	0.30	0.30	100	0.10	33	MS	SW	
26.67	26.82	0.15	0.12	80	0.00	0	MS	SW	
26.82	27.13	0.31	0.11	35	0.00	0	MS	SW	
27.13	27.43	0.30	0.10	33	0.00	0	MS	SW	
27.43	27.74	0.31	0.24	77	0.13	42	MS	SW	
27.74	27.89	0.15	0.12	80	0.00	0	MS	SW	
27.89	28.35	0.46	0.37	80	0.20	43	MS	SW	
28.35	28.65	0.30	0.30	100	0.10	33	MS	SW	
28.65	29.41	0.76	0.61	80	0.42	55	MS	SW	
29.41	29.57	0.16	0.16	100	0.16	100	MS	SW	
29.57	29.78	0.21	0.21	100	0.21	100	MS	SW	
29.78	30.48	0.70	0.41	59	0.14	20	MS	SW	
30.48	31.24	0.76	0.76	100	0.46	61	MS	SW	
31.24	32.00	0.76	0.53	70	0.16	21	MS	SW	
32.00	32.46	0.46	0.46	100	0.28	61	MS	SW	
32.46	33.53	1.07	1.06	99	0.86	80	MS	SW	
33.53	34.75	1.22	1.07	88	0.65	53	MS	SW	
34.75	35.20	0.45	0.40	89	0.10	22	MS	SW	
35.20	36.27	1.07	0.82	77	0.27	25	MS	SW	
36.27	37.19	0.92	0.73	79	0.20	22	MS	SW	
37.19	37.49	0.30	0.30	100	0.10	33	MS	SW	
37.49	38.71	1.22	1.17	96	0.94	77	MS	SW	
38.71	38.86	0.15	0.09	60	0.00	0	MS	SW	
38.86	39.32	0.46	0.46	100	0.12	26	MS	SW	
39.32	39.78	0.46	0.28	61	0.00	0	MS	SW	
39.78	40.39	0.61	0.61	100	0.30	49	MS	SW	
40.39	41.45	1.06	0.94	89	0.29	27	MS	SW	
41.45	42.67	1.22	1.22	100	1.16	95	MS	SW	
42.67	44.04	1.37	1.32	96	1.00	73	MS	SW	
44.04	45.42	1.38	1.34	97	1.11	80	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
45.42	46.79	1.37	1.33	97	1.25	91	MS	SW	
46.79	47.09	0.30	0.27	90	0.10	33	MS	SW	
47.09	48.00	0.91	0.91	100	0.34	37	MS	SW	
48.00	49.07	1.07	1.05	98	0.58	54	MS	SW	
49.07	50.08	1.01	1.01	100	0.54	53	MS	SW	
50.08	51.05	0.97	0.91	94	0.35	36	MS	SW	
51.05	52.43	1.38	1.38	100	0.64	46	MS	SW	
52.43	53.19	0.76	0.76	100	0.47	62	MS	SW	
53.19	54.25	1.06	0.83	78	0.50	47	MS	SW	
54.25	54.56	0.31	0.31	100	0.11	35	MS	SW	
54.56	55.17	0.61	0.61	100	0.30	49	MS	SW	
55.17	56.39	1.22	0.67	55	0.27	22	MS	MW	
56.39	57.91	1.52	1.03	68	0.48	32	MS	MW	
57.91	59.44	1.53	1.46	95	0.75	49	MS	MW	
59.44	60.96	1.52	1.46	96	0.75	49	MS	MW	
60.96	62.48	1.52	1.52	100	0.92	61	MS	MW	
62.48	64.01	1.53	1.45	95	0.50	33	MS	MW	
64.01	65.53	1.52	1.45	95	0.36	24	MS	MW	
65.53	67.06	1.53	1.49	97	0.27	18	MS	MW	
67.06	68.58	1.52	1.27	84	0.00	0	MS	MW	
68.58	70.10	1.52	1.37	90	0.94	62	MS	MW	
70.10	71.63	1.53	1.07	70	0.34	22	MS	MW	
71.63	73.15	1.52	0.88	58	0.00	0	EW	MW	
73.15	74.68	1.53	1.30	85	0.51	33	EW	EW	
74.68	76.20	1.52	0.53	35	0.00	0	EW	EW	
76.20	77.72	1.52	0.76	50	0.00	0	EW	EW	
77.72	79.25	1.53	1.52	99	0.47	31	EW	EW	
79.25	80.77	1.52	1.20	79	0.21	14	EW	EW	
80.77	82.30	1.53	1.01	66	0.10	7	EW	EW	
82.30	83.82	1.52	0.68	45	0.51	34	EW	EW	
83.82	85.34	1.52	1.13	74	0.00	0	EW	EW	
85.34	86.87	1.53	1.37	90	0.21	14	EW	EW	
86.87	88.39	1.52	0.70	46	0.00	0	EW	EW	
88.39	89.92	1.53	1.02	67	0.31	20	EW	EW	
89.92	91.44	1.52	1.20	79	0.11	7	EW	EW	
91.44	92.96	1.52	1.52	100	0.37	24	EW	EW	
92.96	94.49	1.53	1.46	95	0.35	23	EW	EW	
94.49	96.01	1.52	1.35	89	0.45	30	EW	EW	
96.01	97.54	1.53	1.12	73	0.92	60	MS	SW	
97.54	98.76	1.22	1.16	95	0.12	10	W	MW	
98.76	99.21	0.45	0.35	78	0.15	33	W	MW	
99.21	100.58	1.37	0.82	60	0.48	35	W	MW	
100.58	102.11	1.53	0.75	49	0.46	30	W	MW	
102.11	102.87	0.76	0.55	72	0.20	26	W	MW	
102.87	104.09	1.22	1.06	87	0.60	49	MS	SW	
104.09	104.70	0.61	0.61	100	0.22	36	MS	SW	
104.70	105.16	0.46	0.32	70	0.00	0	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
105.16	106.68	1.52	1.16	76	0.92	61	MS	SW	
106.68	107.14	0.46	0.38	83	0.00	0	MS	SW	
107.14	108.20	1.06	0.85	80	0.76	72	MS	SW	
108.20	108.51	0.31	0.26	84	0.11	35	MS	SW	
108.51	109.73	1.22	1.00	82	0.45	37	MS	SW	
109.73	110.79	1.06	0.94	89	0.42	40	MS	SW	
110.79	112.32	1.53	0.63	41	0.41	27	MS	SW	
112.32	113.39	1.07	0.78	73	0.41	38	MS	SW	
113.39	114.91	1.52	1.05	69	0.22	14	EW	HW	
114.91	116.89	1.98	0.98	49	0.30	15	EW	HW	
116.89	118.41	1.52	1.40	92	0.93	61	W	SW	
118.41	119.02	0.61	0.61	100	0.11	18	W	SW	
119.02	120.40	1.38	1.25	91	0.90	65	W	SW	
120.40	121.92	1.52	1.38	91	1.22	80	W	SW	
121.92	123.44	1.52	1.26	83	0.82	54	VW	HW	
123.44	124.51	1.07	0.88	82	0.51	48	VW	HW	
124.51	126.03	1.52	1.17	77	0.40	26	VW	HW	
126.03	127.31	1.28	0.74	58	0.29	23	VW	HW	
127.31	128.78	1.47	1.40	95	0.00	0	VW	HW	
128.78	129.08	0.30	0.26	87	0.00	0	VW	HW	
129.08	130.76	1.68	1.51	90	0.10	6	VW	HW	
130.76	132.59	1.83	0.71	39	0.00	0	VW	HW	
132.59	134.11	1.52	0.45	30	0.00	0	VW	HW	
134.11	135.64	1.53	0.77	50	0.00	0	VW	HW	
135.64	137.16	1.52	1.01	66	0.12	8	VW	HW	
137.16	138.68	1.52	1.41	93	0.85	56	VW	HW	
138.68	140.21	1.53	1.30	85	0.48	31	VW	HW	
140.21	143.26	3.05	1.55	51	0.49	16	VW	HW	
143.26	144.78	1.52	0.92	61	0.28	18	VW	HW	
144.78	146.30	1.52	0.56	37	0.36	24	VW	HW	
146.30	147.68	1.38	1.26	91	0.97	70	W	HW	
147.68	149.20	1.52	1.20	79	0.91	60	W	EW	
149.20	150.88	1.68	1.25	74	0.59	35	VW	EW	
150.88	151.49	0.61	0.20	33	0.00	0	VW	EW	
151.49	152.40	0.91	0.70	77	0.41	45	VW	EW	
152.40	152.86	0.46	0.34	74	0.20	43	VW	EW	
152.86	153.92	1.06	1.01	95	0.26	25	W	HW	
153.92	155.45	1.53	1.53	100	0.54	35	MS	HW	
155.45	156.82	1.37	1.25	91	0.94	69	W	HW	
156.82	157.89	1.07	0.98	92	0.65	61	W	HW	
157.89	158.80	0.91	0.85	93	0.56	62	W	HW	
158.80	160.02	1.22	0.76	62	0.58	48	W	HW	
160.02	161.54	1.52	0.61	40	0.44	29	W	HW	
161.54	162.00	0.46	0.25	54	0.00	0	W	HW	
162.00	162.92	0.92	0.91	99	0.20	22	W	HW	
162.92	163.68	0.76	0.76	100	0.56	74	W	HW	
163.68	164.59	0.91	0.91	100	0.50	55	W	HW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
164.59	165.05	0.46	0.25	54	0.14	30	W	HW	
165.05	166.12	1.07	0.67	63	0.42	39	W	HW	
166.12	167.64	1.52	1.40	92	1.12	74	VW	EW	
167.64	169.01	1.37	1.37	100	0.83	61	W	HW	
169.01	170.69	1.68	1.07	64	0.61	36	W	EW	
170.69	172.20	1.51	1.15	76	0.15	10	VW	EW	
172.20	173.74	1.54	1.53	99	0.82	53	VW	EW	
173.74	175.26	1.52	1.44	95	1.12	74	VW	HW	
175.26	176.78	1.52	1.45	95	0.70	46	W	HW	
176.78	178.31	1.53	1.35	88	0.31	20	W	HW	
178.31	179.83	1.52	1.40	92	0.79	52	W	HW	
179.83	181.36	1.53	1.50	98	0.70	46	VW	HW	
181.36	182.88	1.52	0.76	50	0.11	7	VW	EW	
182.88	184.40	1.52	1.43	94	0.97	64	MS	MW	
184.40	185.93	1.53	1.44	94	0.79	52	MS	MW	
185.93	187.45	1.52	1.52	100	0.98	64	MS	MW	
187.45	188.98	1.53	1.53	100	1.18	77	MS	MW	

SAMPLE LOG

HOLE: Rau-09-41

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
50.50	53.65	3.15	3.04	97	H884623	5.0	29	0.01	0.08	35	0.82	
53.65	56.39	2.74	1.93	70	H884624	3.0	29	0.01	0.17	304	2.97	
56.39	58.94	2.55	1.70	67	H884625	2.0	29	0.01	0.41	1240	24.00	
58.94	61.96	3.02	3.02	100	H884626	4.0	29	0.01	0.14	88	0.66	
61.96	65.01	3.05	2.66	87	H884627	3.5	29	0.01	0.15	113	3.36	
65.01	68.58	3.57	3.00	84	H884628	3.5	29	0.01	0.13	107	1.06	
68.58	71.63	3.05	2.25	74	H884629	3.5	29	0.03	0.26	92	15.05	
71.63	74.68	3.05	2.08	68	H884631	2.0	29	0.94	12.15	32600	873.00	
74.68	77.72	3.04	1.36	45	H884632	1.0	29	4.17	9.80	36700	817.00	
77.72	80.77	3.05	2.86	94	H884633	3.3	29	15.05	12.60	27900	454.00	
80.77	83.82	3.05	2.48	81	H884634	3.0	29	13.15	16.40	19800	249.00	
83.82	86.87	3.05	2.32	76	H884636	3.0	29	28.50	13.55	17100	559.00	
86.87	89.92	3.05	2.65	87	H884637	2.0	29	33.70	11.70	16600	595.00	
89.92	91.44	1.52	1.21	80	H884638	1.5	29	35.90	9.11	10800	639.00	
91.44	92.96	1.52	1.52	100	H884640	2.0	29	22.50	5.24	12200	461.00	
92.96	95.35	2.39	2.35	98	H884641	3.0	29	41.20	5.22	13600	599.00	
95.35	96.10	0.75	0.59	79	H884642	1.5	29	0.98	0.99	3880	39.70	
96.10	97.54	1.44	1.04	72	H884643	1.5	30	0.06	0.51	178	1.59	
97.54	98.58	1.04	0.90	87	H884644	0.5	30	0.06	1.20	5060	20.80	
98.58	100.58	2.00	1.37	69	H884645	2.0	30	0.04	0.52	422	1.60	
100.58	102.87	2.29	1.39	61	H884646	2.0	30	0.15	0.57	742	9.73	
102.87	105.16	2.29	2.05	90	H884647	2.5	30	0.09	0.32	273	4.44	
105.16	108.20	3.04	2.35	77	H884648	4.0	30	0.12	0.50	672	3.83	
108.20	110.79	2.59	2.20	85	H884649	3.5	30	0.06	0.41	896	1.66	
110.79	113.65	2.86	2.55	89	H884650	4.0	30	0.06	0.37	775	2.65	
113.65	116.89	3.24	2.30	71	H884652	2.5	30	0.29	0.84	8290	22.70	
116.89	119.80	2.91	2.76	95	H884653	4.0	30	0.11	0.29	1850	5.51	
119.80	122.76	2.96	2.67	90	H884654	4.5	30	0.09	0.14	613	2.22	
122.76	124.51	1.75	1.33	76	H884655	1.5	30	1.63	0.45	4560	69.10	
124.51	126.44	1.93	1.59	82	H884657	2.0	30	0.15	0.54	3380	4.39	
126.44	128.62	2.18	1.52	70	H884658	2.0	30	0.23	1.36	10100	108.50	

SAMPLE LOG

128.62	130.76	2.14	1.77	83	H884659	1.5	30	0.11	0.65	5710	41.80	
130.76	134.11	3.35	1.20	36	H884660	2.0	30	0.12	0.90	4870	28.30	
134.11	136.67	2.56	1.40	55	H884661	1.0	30	0.17	0.87	8710	47.10	
136.67	138.38	1.71	1.55	91	H884663	2.0	30	0.11	0.54	1060	2.24	
138.38	140.35	1.97	1.62	82	H884664	2.5	30	0.11	1.20	2490	11.40	
140.35	143.60	3.25	1.78	55	H884665	2.0	30	0.12	0.31	917	3.07	
143.60	144.78	1.18	0.55	47	H884675	0.5	30	2.38	1.17	14100	144.00	
144.78	147.68	2.90	1.81	62	H884677	2.0	30	0.14	0.53	3450	14.85	
147.68	149.20	1.52	1.18	78	H884678	2.0	30	0.10	0.47	1120	2.31	
149.20	152.14	2.94	1.71	58	H884679	2.0	31	0.37	1.85	12500	125.50	
152.14	153.92	1.78	1.60	90	H884680	2.0	31	1.37	2.00	2920	67.20	
153.92	156.82	2.90	2.80	97	H884681	4.0	31	<0.01	0.31	627	0.63	
156.82	159.04	2.22	1.95	88	H884682	2.5	31	<0.01	0.42	831	0.46	
159.04	161.54	2.50	1.12	45	H884684	1.0	31	0.01	0.32	1410	1.38	
161.54	163.68	2.14	1.81	85	H884685	2.0	31	0.13	3.52	3430	41.20	
163.68	166.12	2.44	1.87	77	H884686	2.5	31	0.18	5.67	4420	212.00	
166.12	169.01	2.89	2.68	93	H884687	4.0	31	0.18	3.03	2210	76.30	
169.01	172.21	3.20	2.23	70	H884689	3.0	31	0.51	45.30	9100	1020.00	
172.21	175.26	3.05	2.88	94	H884690	5.0	31	0.02	3.92	1545	11.55	
175.26	178.31	3.05	2.81	92	H884691	3.5	31	0.02	2.71	1015	1.40	
178.31	179.83	1.52	1.36	89	H884692	1.5	31	0.08	3.81	1915	3.72	
179.83	182.50	2.67	2.02	76	H884693	2.5	31	0.13	8.04	5870	19.30	
182.50	185.93	3.43	2.91	85	H884694	4.0	31	<0.01	1.21	591	2.77	
185.93	188.98	3.05	3.05	100	H884695	5.5	31	<0.01	0.44	201	1.47	
-	-	-			H884639	0.3	29	NSS	0.17	22000	470.00	Standard R-3
68.58	71.63	3.05	2.25	74	H884630	1.0	29	0.35	0.30	139	33.20	Duplicate
-	-	-			H884635	4.0	29	0.01	0.10	48	0.33	Blank
110.79	113.65	2.86	2.55	89	H884651	2.0	30	0.08	0.40	742	2.88	Duplicate
-	-	-			H884662	3.0	30	0.01	<0.01	10	0.18	Blank
-	-	-			H884676	4.5	30	0.01	<0.01	<5	0.16	Blank
-	-	-			H884683	0.3	31	1.41	1.66	26100	350.00	Standard R-2
-	-	-			H884688	3.5	31	<0.01	0.03	9	0.46	Blank

DENSITY LOG

HOLE: Rau-09-41

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
44.15	LST	FOS		14.8	4.2	548.7	346.1	2.95	2.71
69.80	LST	FOS		14.8	4.2	550.0	346.0	2.96	2.70
97.00	LST			14.7	4.2	516.7	316.9	2.80	2.59

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-41

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
4.00	LST	RBL	0.10	
5.00	LST	RBL	0.02	
6.00	LST	RBL	0.06	
7.00	LST	RBL	0.04	
8.00	LST	RBL	0.04	
9.00	LST	RBL	0.02	
10.00	LST	RBL	0.12	
11.00	LST	RBL	0.14	
12.00	LST	RBL	0.00	
13.00	LST	RBL	0.08	
14.00	LST	RBL	0.28	
15.00	LST	RBL	0.06	
16.00	LST	RBL	0.02	
17.00	LST	RBL	0.08	
18.00	LST	RBL	0.12	
19.00	LST	RBL	0.06	
20.00	LST	RBL	0.02	
21.00	LST	RBL	0.04	
22.00	LST	RBL	0.04	
23.00	LST	RBL	0.06	
24.00	LST	RBL	0.49	
25.00	LST	RBL	0.14	
26.00	LST	RBL	0.06	
27.00	LST	RBL	0.02	
28.00	LST	FOS	0.16	
29.00	LST	FOS	0.26	
30.00	LST	FOS	0.06	
31.00	LST	FOS	0.08	
32.00	LST	FOS	0.06	
33.00	LST	FOS	0.06	
34.00	LST	FOS	0.20	
35.00	LST	FOS	0.26	
36.00	LST	FOS	0.22	
37.00	LST	FOS	0.71	
38.00	LST	FOS	0.06	
39.00	LST	FOS	0.45	
40.00	LST	FOS	0.10	
41.00	LST	FOS	0.22	
42.00	LST	FOS	0.04	
43.00	LST	FOS	0.06	
44.00	LST	FOS	0.06	
45.00	LST	FOS	0.04	
46.00	LST	FOS	0.08	
47.00	LST	FOS	0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
48.00	LST	FOS	0.08	
49.00	LST	FOS	0.04	
50.00	LST	FOS	0.10	
51.00	LST	FOS	0.03	
52.00	LST	FOS	0.16	
53.00	LST	FOS	0.01	
54.00	LST	FOS	0.38	
55.00	LST	FOS	0.01	
56.00	LST	FOS	0.08	
57.00	LST	FOS	0.57	
58.00	LST	FOS	0.15	
59.00	LST	FOS	0.03	
60.00	LST	FOS	0.26	
61.00	LST	FOS	0.20	
62.00	LST	FOS	0.01	
63.00	LST	FOS	0.10	
64.00	LST	FOS	0.08	
65.00	LST	FOS	0.06	
66.00	LST	FOS	0.20	
67.00	LST	FOS	0.03	
68.00	LST	FOS	0.03	
69.00	LST	FOS	0.06	
70.00	LST	FOS	0.13	
71.00	LST	FOS	0.01	
72.00	OX	CLY	0.42	
73.00	OX	CLY	0.35	
74.00	OX	CLY	0.42	
75.00	OX	CLY	0.18	
76.00	OX	CLY	0.06	
77.00	OX	CLY	0.10	
78.00	OX	CLY	0.47	
79.00	OX	CLY	0.77	
80.00	OX	CLY	0.20	
81.00	OX	CLY	0.55	
82.00	OX	CLY	0.78	
83.00	OX	CLY	0.18	
84.00	OX	CLY	0.26	
85.00	OX	CLY	0.28	
86.00	OX	CLY	0.47	
87.00	OX	CLY	0.52	
88.00	OX	CLY	0.47	
89.00	OX	CLY	0.67	
90.00	OX	CLY	0.43	
91.00	OX	CLY	0.40	
92.00	OX	CLY	0.57	
93.00	OX	CLY	0.48	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
94.00	OX	CLY	1.36	
95.00	OX	CLY	1.52	
96.00	VOL	ALT	0.08	
97.00	LST		0.03	
98.00	CLY		0.01	
99.00	LST	CR	0.08	
100.00	LST	CR	0.02	
101.00	LST	CR	0.08	
102.00	LST	CR	0.14	
103.00	LST	CR	0.08	
104.00	LST	CR	0.10	
105.00	LST	CR	0.04	
106.00	LST	CR	0.10	
107.00	LST	CR	0.41	
108.00	LST	CR	0.43	
109.00	LST	CR	0.30	
110.00	LST	CR	0.04	
111.00	LST	CR	0.04	
112.00	LST	CR	0.06	
113.00	LST	CR	0.10	
114.00	LST	ALT	0.36	
115.00	LST	ALT	0.14	
116.00	LST	ALT	0.34	
117.00	LST	ALT	0.14	
118.00	LST	ALT	0.12	
119.00	LST	ALT	0.61	
120.00	LST	ALT	0.08	
121.00	LST	ALT	0.18	
122.00	LST	ALT	0.08	
123.00	LST	ALT	0.24	
124.00	LST	ALT	0.18	
125.00	LST	ALT	0.08	
126.00	LST	ALT	1.41	
127.00	LST	ALT	0.08	
128.00	LST	ALT	0.77	
129.00	LST	ALT	0.10	
130.00	LST	ALT	0.45	
131.00	LST	ALT	0.14	
132.00	LST	ALT	0.12	
133.00	LST	ALT	1.45	
134.00	LST	ALT	0.12	
135.00	LST	ALT	0.06	
136.00	LST	ALT	0.04	
137.00	LST	ALT	0.10	
138.00	LST	ALT	0.28	
139.00	LST	ALT	0.45	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
140.00	LST	ALT	0.12	
141.00	LST	ALT	0.06	
142.00	LST	ALT	0.34	
143.00	LST	ALT	0.10	
144.00	LST	ALT	0.38	
145.00	LST	ALT	0.06	
146.00	LST	ALT	0.47	
147.00	LST	ALT	0.10	
148.00	LST	ALT	0.06	
149.00	LST	ALT	0.32	
150.00	LST	ALT	0.34	
151.00	LST	ALT	1.04	
152.00	LST	ALT	0.69	
153.00	VOL	ALT	0.22	
154.00	VOL	ALT	0.18	
155.00	VOL	ALT	0.12	
156.00	VOL	ALT	0.34	
157.00	VOL	ALT	1.16	
158.00	VOL	ALT	0.24	
159.00	VOL	ALT	0.26	
160.00	VOL	ALT	0.22	
161.00	VOL	ALT	0.28	
162.00	VOL	ALT	0.14	
163.00	VOL	ALT	0.22	
164.00	VOL	ALT	0.41	
165.00	VOL	ALT	0.38	
166.00	VOL	ALT	0.18	
167.00	VOL	ALT	0.26	
168.00	VOL	ALT	0.26	
169.00	VOL	ALT	0.92	
170.00	OX		0.53	
171.00	OX		0.79	
172.00	OX		1.25	
173.00	VOL	ALT	49.30	
174.00	VOL	ALT	4.44	
175.00	VOL	ALT	1.66	
176.00	VOL	ALT	170.00	
177.00	VOL	ALT	158.00	
178.00	VOL	ALT	135.00	
179.00	VOL	ALT	3.05	
180.00	VOL	ALT	0.84	
181.00	VOL	ALT	0.86	
182.00	VOL	ALT	0.94	
183.00	LST		0.65	
184.00	LST		0.10	
185.00	LST		0.20	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
186.00	LST		0.61	
187.00	LST		0.18	
188.00	LST		0.28	

BOX LOG

HOLE: Rau-09-41

BOX	FROM (m)	TO (m)
1	3.05	9.00
2	9.00	14.60
3	14.60	19.30
4	19.30	23.65
5	23.65	28.88
6	28.88	33.90
7	33.90	38.99
8	38.99	43.90
9	43.90	49.35
10	49.35	54.56
11	54.56	60.92
12	60.92	66.30
13	66.30	73.15
14	73.15	79.82
15	79.82	85.58
16	85.58	92.40
17	92.40	97.98
18	97.98	104.50
19	104.50	110.53
20	110.53	116.75
21	116.75	122.27
22	122.27	128.70
23	128.70	136.63
24	136.63	143.60
25	143.60	151.65
26	151.65	157.42
27	157.42	164.45
28	164.45	170.69
29	170.69	176.21
30	176.21	181.67
31	181.67	187.76
32	187.76	188.98
	188.98	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+120W

HOLE: Rau-09-42
CLAIM: Rau 98f

Easting	Northing	Elev.	Depth (m)
528440	7119160	1272	141.12

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 7.62 (m) out

Drilling dates: July 28 - 30, 2009

Logged by: S. Magnusson

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.70	3.70	OVB	
3.70	3.96	0.26	LST	Altered
3.96	11.29	7.33	OX	Rubbly
11.29	27.50	16.21	DOL	Mineralized (pyrite)
27.50	32.42	4.92	VOL	Altered
32.42	75.53	43.11	DOL	Mineralized (pyrite)
75.53	90.62	15.09	LST	Altered
90.62	100.19	9.57	LST	Crackle
100.19	110.47	10.28	MBL	
110.47	126.31	15.84	LST	Fossiliferous
126.31	141.12	14.81	LEP	Leopard spotted volcaniclastic

SAMPLES

Numbers: H884594-H884622, H884666-H884674
H884696-H884702
Total: 45
Batches 28, 29, 30, 31
Certificate: VO09087122, VO09087193, VO09087194, VO09088240

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-42

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.70	3.70	OVB																			No Recovery.
3.70	3.96	0.26	LST	ALT	BN	BD	80						MBL	m								Medium-grey, slightly marbleized banded rubbly limestone. Possibly overburden. Angular 2 cm pieces dominate.
3.96	11.29	7.33	OX	RBL								I										Orange-red, slightly gritty clay with small 1 cm yellow (limonite) fragments.
																						3.96-5.49 m: Orange-brown clay with 1% yellow (limonite?), 2% pink-red (hematite?) fragile pebble clasts and 1% coarse sand sized quartz grains.
																						5.49-8.53 m: Increasing pink-red (hematite) of silt sized particles.
																						8.53-10.06 m: Medium grey, crackled, rubbly dolomite. Slightly oxidized/hematite staining on fracture surfaces, a mottled appearance.
																						10.06-11.29 m: Red-brown clay to sand sized, subrounded, 1 cm sized dolomite clasts. Polymictic pebble sized clasts surrounding the clay. (COLOUR: 7.5YR 4/6 - strong brown)
11.29	27.50	16.21	DOL	MX	BN	FO	60								f	m						Light grey, massive, medium grained dolomite with stringers of pyrite and arsenopyrite from trace to strongly abundant appearing along the foliation, ranging for fine to coarse grained. Occasional quartz and carbonate veinlets cross-cut the foliation.
						CN	50								m	f						11.29-15.94 m: sharp contact with above oxide unit at 50 deg to CA. 1 mm to 1 cm fine grained pyrite dominated veinlets (5%). Trace euhedral 2 mm to 1 cm solitary arsenopyrite grains in the dolomite. Orange-red oxide 2-10 mm coating on fractures. General abundance of veinlets decreases towards 15.94 m.
						FO	60															
															ms	w						15.94-17.68 m: Blotchy, irregular 1 cm to 3 cm pyrite dominate veins. Pyrite is medium to coarse grained, subhedral and interspersed with arsenopyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	65								ms	m						17.68-23.77 m: Zebra printed dolomite with abundant pyrite and arsenopyrite 1 mm to 1 cm stringers. Fair 0.5 to 2 mm euhedral arsenopyrite grains in dolomite matrix following foliation.
						VN	65								m	m						23.77-27.50 m: Trace healed carbonate stringers 5 deg to CA and trace 3 cm carbonate veins cross cutting mineralization.
27.50	32.42	4.92	VOL	MX	BN	FO	50			I	I				f	t						Heavily sericite altered volcaniclastic with 1-3 cm interlayers and patches of carbonate. Trace very fine grained biotite is "peppered" throughout. Medium grained subhedral pyrite and minor arsenopyrite occur along foliation and solitary within the sericite/carbonate. Sharp upper contact with dolomite occurs at 20 deg to CA.
						CN	20															
			VOL	ALT	BN					I		s										27.50-29.30 m: Moderately altered zone, showing dominantly green-brown sericite. Trace euhedral sulphides.
				MX		FO	60								m	f						29.30-32.42 m: 1-10 mm carbonate patches form a mosaic print pattern with weak pyrite and arsenopyrite stringers. Trace blotches of euhedral pyrite grains and 2-20 mm wide sericite bands along foliation increase to end of unit.
32.42	75.53	43.11	DOL	MX	BN	FO	60								ms	m						Light grey, coarse grained dolomite with moderate stringers of pyrite and arsenopyrite, and thin red-brown oxidation coating on joints.
						VN	25								t	w						32.42-36.18 m: Poorly mineralized zone with mostly 1-10 mm euhedral arsenopyrite grains. 1 mm healed calcite veinlets spaced roughly 6 per meter occur at 25 deg to CA.
															ms	m						36.18-40.42 m: Zebra striped pyrite and arsenopyrite veinlets 1 mm to 1 cm wide, fine to medium grained disseminated and trace solitary euhedral arsenopyrite grains.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															f	m						40.42-43.13 m: 0.5-1 cm subhedral arsenopyrite grains in small clusters, randomly orientated. Rare pyrite stringers occur along foliation. Dolomite grain size increases down interval, up to 1 cm.
						VN	70								m	m						43.13-49.38 m: Cream coloured coarse grained dolomite. Pyrite and arsenopyrite veinlets, with weak 1 cm euhedral arsenopyrite patches and crystals.
					CR	VN	75								s	w						49.38-50.78 m: Strong pyrite bands and blotches 1-3 cm thick and 1 mm pyrite grains between coarse dolomite grains.
						VN	85								w	t						50.78-57.15 m: Weakly mineralized zone with 0.5-1 cm coarse grains of dolomite. Rare 2 cm bands of pyrite at 85 deg to CA, decreasing in abundance down section.
					CR										ms	w						57.18-66.45 m: 1 to 3 cm fine to medium grained pyrite bands and irregular patches amongst 0.5-1 cm dolomite grains. Weak arsenopyrite. Rare 1cm quartz and sericite veins cross-cutting the mineralization.
						VN	80								ms	w						66.45-69.49 m: Tiger striped 1 mm to 1 cm pyrite and sericite bands at 80 deg to CA, 30 per meter. 10% coarse grained quartz patches amongst dolomite.
						FO	60								w	t						69.49-75.53 m: Cream coloured, coarse grained dolomite with light oxidation around crystal boundaries. Medium grained pyrite and fine grained arsenopyrite form small patches and stringers along the foliation. Rare 2-5 cm quartz veins randomly cross-cut. Dolomite becomes more dirty grey down the interval.
75.53	80.58	5.05	LST	ALT	BN	FO	50		m													Coarse grained, weakly carbonate altered, moderately dolomitized limestone.
						FO	50		m						f	t						77.11-78.29 m: Heavily carbonate altered zone. 3% pyrite in 1 mm stringers along foliation.
												f										78.29-80.26 m: Pale pink, lightly rhodochrosite altered zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
80.58	86.62	6.04	LST	ALT	BN	FO	50		w			w			t							Coarse grained, weakly dolomitized rhodochrosite altered limestone with some weak zones of brecciation. Trace pyrite rare 1 mm shallow angle healed carbonate stringers.
					CR																	
86.62	90.62	4.00	LST	ALT	BN	FO	40		ms			m			w	t						Pale pink, moderately carbonate altered, dolomitized limestone with weakly scattered medium grained pyrite veinlets 1mm wide at 80 deg to CA. Also trace 1 mm euhedral pyrite grains are distributed throughout. A thin orange-yellow clay coats joints.
90.62	100.19	9.57	LST		CR	VN	65					t			t							Medium grey, fine grained, lightly fluid-collapse brecciated zoned limestone. 2% 0.5 to 2 cm carbonate veins at 65 deg to CA. Trace 0.5 cm pyrite grains.
																						90.83-95.00 m: Trace 0.5 by 5 mm (rectangular) grains of dark black (biotite?), displaying local strain deformation along small carbonate flooding zones.
100.19	110.47	10.28	MBL		BN	FO	80															Light grey, medium grained, banded marble. The upper contact is gradational over about 1m.
															t	t						101.80-103.02 m: Trace euhedral, fine grained pyrite and arsenopyrite occurs peppered throughout
110.47	126.31	15.84	LST	FOS	BN	FO	55		w	t					t			Mag	w			Dark grey to black, mildly fossiliferous, strain-banded limestone with 2%, 1-5 mm crinoids, and trace disseminated pyrite. Aphanitic magnetite appears sporadically in zones.
						FO	60								w							110.47-114.34 m: Gradational contact, with 25% medium grained dolomite along foliation bands. Pyrite appears as fine disseminations to 1 cm blotches.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	65								w							114.34-123.45 m: Decreasing pyrite downhole. 4% 1 cm white carbonate stringers parallel to foliation, decreasing downhole, replaced by sparse low angle carbonate veinlets 0.5 mm thick.
					BX													Mag	I			122.45-123.10 m: slightly brecciated zone. It is highly magnetic, magnetite?
						FO	60			s												123.45-126.31 m: Gradational contact with lower "leopard print unit" (5% foliaform leopard print). Swalie bands of biotite and sericite account for ~ 60%.
126.31	141.12	14.81	LEP			FO	50			w												Grey and black, coarsely spotted leopard print volcaniclastic with 2% 1-5 cm sericite bands and 1% 1 cm carbonate veins parallel to foliation. Rare 1 mm carbonate veins at low angles cross cutting previous foliaform bands. Very trace green (chlorite?) alteration in some carbonate veins. Overall, 30% biotite, 60% carbonate.
						FO	65															126.31-133.50 m: Foliation is 65 deg to CA .
						FO	40															135.50-141.12 m: Foliation is 40 deg to CA .
																						141.12 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-42

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.70	3.96	0.26	0.26	100	0.00	0	MS	SW	
3.96	5.49	1.53	0.58	38	0.00	0	EW	EW	
5.49	7.01	1.52	0.71	47	0.00	0	EW	EW	
7.01	8.53	1.52	0.08	5	0.00	0	EW	EW	
8.53	10.06	1.53	0.42	27	0.00	0	EW	EW	
10.06	11.58	1.52	0.95	63	0.26	17	EW	EW	
11.58	13.11	1.53	1.33	87	0.89	58	MS	SW	
13.11	14.63	1.52	1.52	100	1.30	86	MS	SW	
14.63	16.15	1.52	1.50	99	0.92	61	MS	SW	
16.15	17.68	1.53	1.53	100	1.48	97	MS	SW	
17.68	19.20	1.52	1.45	95	0.98	64	MS	SW	
19.20	20.73	1.53	1.47	96	1.15	75	MS	SW	
20.73	22.25	1.52	1.35	89	1.02	67	MS	SW	
22.25	23.77	1.52	1.52	100	1.52	100	MS	SW	
23.77	25.30	1.53	1.42	93	1.18	77	MS	SW	
25.30	26.82	1.52	1.52	100	1.42	93	MS	SW	
26.82	28.35	1.53	1.30	85	0.55	36	W	HW	
28.35	29.87	1.52	1.47	97	0.32	21	W	HW	
29.87	31.39	1.52	1.27	84	0.81	53	MS	SW	
31.39	32.92	1.53	1.51	99	1.23	80	MS	SW	
32.92	34.44	1.52	1.52	100	1.50	99	MS	SW	
34.44	35.97	1.53	1.50	98	1.28	84	MS	SW	
35.97	37.49	1.52	1.52	100	1.52	100	MS	SW	
37.49	39.01	1.52	1.52	100	1.44	95	MS	SW	
39.01	40.54	1.53	1.45	95	1.40	92	MS	SW	
40.54	42.06	1.52	1.52	100	1.52	100	MS	SW	
42.06	43.59	1.53	1.50	98	1.30	85	MS	FR	
43.59	45.11	1.52	1.52	100	1.52	100	MS	FR	
45.11	46.63	1.52	1.51	99	1.51	99	MS	FR	
46.63	48.16	1.53	1.53	100	1.53	100	MS	FR	
48.16	49.68	1.52	1.52	100	1.52	100	MS	FR	
49.68	51.21	1.53	1.53	100	1.53	100	MS	FR	
51.21	52.73	1.52	1.52	100	1.48	97	MS	FR	
52.73	54.25	1.52	1.52	100	1.52	100	MS	FR	
54.25	55.78	1.53	1.50	98	1.50	98	MS	FR	
55.78	57.30	1.52	1.52	100	1.51	99	MS	FR	
57.30	58.83	1.53	1.50	98	1.40	92	MS	FR	
58.83	60.35	1.52	1.44	95	1.35	89	MS	FR	
60.35	61.87	1.52	1.52	100	1.52	100	MS	FR	
61.87	63.40	1.53	1.53	100	1.53	100	MS	FR	
63.40	64.92	1.52	1.52	100	1.48	97	MS	FR	
64.92	66.45	1.53	1.49	97	1.43	93	MS	FR	
66.45	67.97	1.52	1.52	100	1.52	100	MS	FR	
67.97	69.49	1.52	1.52	100	1.46	96	MS	FR	
69.49	71.02	1.53	1.45	95	1.45	95	MS	FR	
71.02	72.54	1.52	1.52	100	1.34	88	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.53	100	1.53	100	MS	FR	
74.07	75.59	1.52	1.52	100	1.52	100	MS	FR	
75.59	77.11	1.52	1.36	89	1.36	89	MS	FR	
77.11	78.64	1.53	1.10	72	0.74	48	MS	FR	
78.64	80.16	1.52	1.52	100	1.26	83	MS	SW	
80.16	81.69	1.53	1.53	100	1.48	97	MS	SW	
81.69	83.21	1.52	1.52	100	1.50	99	MS	SW	
83.21	84.73	1.52	1.52	100	1.44	95	MS	FR	
84.73	86.26	1.53	1.45	95	1.30	85	MS	FR	
86.26	87.78	1.52	1.52	100	1.48	97	MS	FR	
87.78	89.31	1.53	1.53	100	1.41	92	MS	FR	
89.31	90.83	1.52	1.52	100	1.48	97	MS	FR	
90.83	92.35	1.52	1.52	100	1.52	100	MS	FR	
92.35	93.88	1.53	1.53	100	1.45	95	MS	FR	
93.88	95.40	1.52	1.50	99	1.50	99	MS	FR	
95.40	96.93	1.53	1.53	100	1.53	100	MS	FR	
96.93	98.45	1.52	1.52	100	1.52	100	MS	FR	
98.45	99.97	1.52	1.52	100	1.33	88	MS	FR	
99.97	101.50	1.53	1.49	97	1.41	92	MS	FR	
101.50	103.02	1.52	1.52	100	1.52	100	MS	FR	
103.02	104.55	1.53	1.45	95	1.45	95	MS	FR	
104.55	106.07	1.52	1.52	100	1.52	100	MS	FR	
106.07	107.59	1.52	1.43	94	1.43	94	MS	FR	
107.59	109.12	1.53	1.53	100	1.53	100	MS	FR	
109.12	110.64	1.52	1.44	95	1.41	93	MS	FR	
110.64	112.17	1.53	1.53	100	1.42	93	MS	FR	
112.17	113.69	1.52	1.50	99	1.50	99	MS	FR	
113.69	115.21	1.52	1.52	100	1.52	100	MS	FR	
115.21	116.74	1.53	1.53	100	1.53	100	MS	FR	
116.74	118.26	1.52	1.45	95	1.45	95	MS	FR	
118.26	119.79	1.53	1.53	100	1.53	100	MS	FR	
119.79	121.31	1.52	1.52	100	1.40	92	MS	FR	
121.31	122.83	1.52	1.52	100	1.42	93	MS	FR	
122.83	124.36	1.53	1.53	100	1.53	100	MS	FR	
124.36	125.88	1.52	1.43	94	1.25	82	MS	FR	
125.88	127.41	1.53	1.53	100	1.53	100	MS	FR	
127.41	128.93	1.52	1.52	100	1.52	100	MS	FR	
128.93	130.45	1.52	1.52	100	1.52	100	MS	FR	
130.45	131.98	1.53	1.53	100	1.51	99	MS	FR	
131.98	133.50	1.52	1.52	100	1.52	100	MS	FR	
133.50	135.03	1.53	1.53	100	1.27	83	MS	FR	
135.03	136.55	1.52	1.52	100	1.47	97	MS	FR	
136.55	138.07	1.52	1.52	100	1.52	100	MS	FR	
138.07	139.60	1.53	1.53	100	1.53	100	MS	FR	
139.60	141.12	1.52	1.42	93	1.42	93	MS	FR	
	141.12	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-42

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.96	7.01	3.05	1.23	40	H884594	4.0	28	0.23	0.40	2260	170.50	
7.01	10.06	3.05	0.42	14	H884596	1.0	28	0.08	0.10	690	41.30	
10.06	11.29	1.23	0.67	54	H884597	2.0	28	1.85	0.22	18500	1130.00	
11.29	14.30	3.01	2.90	96	H884599	12.0	28	2.30	0.11	9580	414.00	
14.30	17.30	3.00	2.95	98	H884600	13.0	28	2.90	0.13	5820	184.50	
17.30	20.30	3.00	2.97	99	H884601	13.5	28	3.39	0.10	12600	179.50	
20.30	23.00	2.70	2.55	94	H884602	10.0	28	0.50	0.11	2850	80.40	
23.00	25.50	2.50	2.50	100	H884603	11.5	28	0.28	0.09	2600	98.50	
25.50	27.50	2.00	2.00	100	H884604	8.0	28	0.33	0.14	2800	36.30	
27.50	29.30	1.80	1.58	88	H884605	5.0	28	0.06	0.76	2670	32.60	
29.30	32.42	3.12	2.87	92	H884606	4.5	28	0.13	0.05	1255	57.10	
32.42	34.44	2.02	2.05	101	H884607	9.5	29	0.33	0.82	15300	39.10	
34.44	37.49	3.05	3.05	100	H884608	14.0	29	0.20	2.06	7210	36.20	
37.49	40.54	3.05	3.00	98	H884609	12.0	29	0.26	0.63	4040	91.80	
40.54	43.59	3.05	3.05	100	H884611	14.0	29	1.29	0.25	26000	46.60	
43.59	46.63	3.04	3.04	100	H884612	13.5	29	3.77	0.14	15700	86.40	
46.63	49.68	3.05	3.05	100	H884613	13.0	29	1.40	0.08	14300	83.70	
49.68	52.73	3.05	3.05	100	H884615	14.0	29	4.79	0.15	2250	262.00	
52.73	55.78	3.05	3.05	100	H884616	13.0	29	0.10	0.07	480	72.80	
55.78	58.83	3.05	3.05	100	H884617	14.0	29	1.69	0.14	9830	399.00	
58.83	61.87	3.04	3.02	99	H884618	14.5	29	1.26	0.18	9800	440.00	
61.87	64.92	3.05	3.05	100	H884619	14.0	29	0.14	0.20	1400	218.00	
64.92	67.97	3.05	2.97	97	H884620	13.5	29	0.05	0.17	713	349.00	
67.97	71.02	3.05	2.98	98	H884621	13.0	29	0.02	0.34	291	127.50	
71.02	74.07	3.05	3.04	100	H884622	12.0	29	0.04	0.15	363	22.30	
74.07	77.11	3.04	2.92	96	H884666	12.0	30	0.06	0.08	328	63.20	
77.11	78.29	1.18	0.73	62	H884667	12.0	30	0.04	0.20	2290	151.50	
78.29	80.58	2.29	2.29	100	H884668	9.0	30	<0.01	0.28	398	12.55	
80.58	83.60	3.02	3.02	100	H884669	13.0	30	0.01	0.38	336	11.25	
83.60	86.62	3.02	3.02	100	H884671	12.5	30	<0.01	0.14	292	0.65	
86.62	88.62	2.00	2.00	100	H884672	8.5	30	0.02	1.72	982	16.80	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
88.62	90.62	2.00	2.00	100	H884673	8.0	30	0.01	1.11	768	21.70	
90.62	93.60	2.98	2.90	97	H884674	12.5	30	<0.01	0.14	20	0.65	
107.59	110.47	2.88	2.87	100	H884696	11.5	31	0.56	0.17	38	45.50	
110.47	113.69	3.22	3.15	98	H884698	13.0	31	1.02	0.12	107	423.00	
113.69	116.74	3.05	3.05	100	H884699	13.0	31	0.12	0.24	56	23.30	
116.74	119.79	3.05	2.99	98	H884700	12.0	31	0.01	0.06	33	0.59	
119.79	122.83	3.04	3.02	99	H884701	13.0	31	<0.01	0.12	46	0.34	
122.83	125.88	3.05	3.05	100	H884702	13.0	31	<0.01	0.50	56	0.38	
-	-	-			H884595	0.3	28	5.61	0.16	46700	452.00	Standard R-3
-	-	-			H884598	4.0	28	<0.01	0.10	37	1.77	Blank
-	-	-			H884610	0.3	29	0.49	0.86	5410	96.30	Standard R-1
-	-	-			H884614	5.0	29	<0.01	0.01	11	0.32	Blank
-	-	-			H884670	0.3	30	0.55	0.87	5770	94.00	Standard R-1
107.59	110.47	2.88	2.87	100	H884697	5.0	31	0.20	0.20	17	37.90	Duplicate

DENSITY LOG

HOLE: Rau-09-42

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
16.80	DOL	MX	10% S	14.8	6.1	1373.4	981.8	3.15	3.51
36.60	DOL	MX	2% S	15.0	6.1	1288.8	913.5	2.92	3.43
40.60	DOL	MX	0.5% S	14.8	6.1	1258.0	834.4	2.89	2.97
58.83	DOL	MX	2% S	14.8	6.1	1289.2	919.1	2.96	3.48
75.00	VOL		0% S	14.8	6.1	1234.5	808.4	2.84	2.90

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-42

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
4.00	OX	RBL	0.35	
5.00	OX	RBL	0.63	
6.00	OX	RBL	0.23	
7.00	OX	RBL	0.28	
8.00	OX	RBL	0.16	
9.00	OX	RBL	0.10	
10.00	OX	RBL	0.11	
11.00	OX	RBL	0.35	
12.00	DOL	MX	0.31	
13.00	DOL	MX	0.28	
14.00	DOL	MX	0.36	
15.00	DOL	MX	1.00	
16.00	DOL	MX	1.10	
17.00	DOL	MX	0.28	
18.00	DOL	MX	1.02	
19.00	DOL	MX	0.42	
20.00	DOL	MX	0.60	
21.00	DOL	MX	0.50	
22.00	DOL	MX	0.33	
23.00	DOL	MX	0.43	
24.00	DOL	MX	0.30	
25.00	DOL	MX	0.33	
26.00	DOL	MX	0.26	
27.00	DOL	MX	0.43	
28.00	VOL	MX	0.11	
29.00	VOL	MX	0.35	
30.00	VOL	MX	0.72	
31.00	VOL	MX	0.43	
32.00	VOL	MX	0.08	
33.00	DOL	MX	0.33	
34.00	DOL	MX	0.16	
35.00	DOL	MX	0.99	
36.00	DOL	MX	0.23	
37.00	DOL	MX	0.26	
38.00	DOL	MX	0.20	
39.00	DOL	MX	0.43	
40.00	DOL	MX	0.30	
41.00	DOL	MX	0.36	
42.00	DOL	MX	0.35	
43.00	DOL	MX	0.33	
44.00	DOL	MX	0.33	
45.00	DOL	MX	0.23	
46.00	DOL	MX	0.40	
47.00	DOL	MX	0.45	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
48.00	DOL	MX	0.25	
49.00	DOL	MX	0.11	
50.00	DOL	MX	0.38	
51.00	DOL	MX	0.65	
52.00	DOL	MX	0.73	
53.00	DOL	MX	0.33	
54.00	DOL	MX	0.36	
55.00	DOL	MX	0.25	
56.00	DOL	MX	0.25	
57.00	DOL	MX	0.31	
58.00	DOL	MX	0.23	
59.00	DOL	MX	0.18	
60.00	DOL	MX	0.11	
61.00	DOL	MX	0.48	
62.00	DOL	MX	0.16	
63.00	DOL	MX	0.30	
64.00	DOL	MX	0.30	
65.00	DOL	MX	0.18	
66.00	DOL	MX	0.52	
67.00	DOL	MX	0.15	
68.00	DOL	MX	0.13	
69.00	DOL	MX	0.25	
70.00	DOL	MX	0.25	
71.00	DOL	MX	0.31	
72.00	DOL	MX	0.35	
73.00	DOL	MX	0.28	
74.00	DOL	MX	0.48	
75.00	DOL	MX	0.50	
76.00	LST		0.75	
77.00	LST		0.47	
78.00	LST		0.32	
79.00	LST		0.45	
80.00	LST		0.45	
81.00	LST		0.30	
82.00	LST		0.28	
83.00	LST		0.41	
84.00	LST		0.22	
85.00	LST		0.04	
86.00	LST		0.22	
87.00	LST		0.41	
88.00	LST		0.32	
89.00	LST		0.75	
90.00	LST		0.32	
91.00	LST		0.14	
92.00	LST		0.84	
93.00	LST		0.57	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
94.00	LST		0.20	
95.00	LST		0.08	
96.00	LST		0.24	
97.00	LST		0.24	
98.00	LST		0.20	
99.00	LST		0.71	
100.00	MBL		0.32	
101.00	MBL		0.06	
102.00	MBL		0.14	
103.00	MBL		0.41	
104.00	MBL		0.30	
105.00	MBL		0.00	
106.00	MBL		0.00	
107.00	MBL		0.06	
108.00	MBL		0.21	
109.00	MBL		0.05	
110.00	MBL		0.10	
111.00	LST	FOS	1.24	
112.00	LST	FOS	3.64	
113.00	LST	FOS	0.75	
114.00	LST	FOS	0.80	
115.00	LST	FOS	0.48	
116.00	LST	FOS	1.81	
117.00	LST	FOS	3.39	
118.00	LST	FOS	3.05	
119.00	LST	FOS	0.85	
120.00	LST	FOS	0.35	
121.00	LST	FOS	0.55	
122.00	LST	FOS	0.70	
123.00	LST	FOS	569.00	
124.00	LST	FOS	0.92	
125.00	LST	FOS	0.52	
126.00	LST	FOS	0.48	
127.00	LEP		0.45	
128.00	LEP		0.80	
129.00	LEP		0.69	
130.00	LEP		0.97	
131.00	LEP		0.77	
132.00	LEP		0.62	
133.00	LEP		0.60	
134.00	LEP		0.73	
135.00	LEP		0.63	
136.00	LEP		0.70	
137.00	LEP		0.80	
138.00	LEP		0.85	
139.00	LEP		0.70	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
140.00	LEP		0.69	
141.00	LEP		0.84	

BOX LOG

HOLE: Rau-09-42

BOX	FROM (m)	TO (m)
1	3.70	11.45
2	11.45	15.42
3	15.42	19.29
4	19.29	23.27
5	23.27	27.08
6	27.08	31.27
7	31.27	35.21
8	35.21	39.01
9	39.01	43.13
10	43.13	47.26
11	47.26	51.21
12	51.21	55.46
13	55.46	59.51
14	59.51	63.40
15	63.40	67.62
16	67.62	71.72
17	71.72	75.73
18	75.73	80.05
19	80.05	83.80
20	83.80	87.56
21	87.56	91.34
22	91.34	95.40
23	95.40	99.28
24	99.28	103.11
25	103.11	107.27
26	107.27	111.60
27	111.60	115.62
28	115.62	119.79
29	119.79	123.59
30	123.59	127.56
31	127.56	131.77
32	131.77	135.58
33	135.58	139.74
34	139.74	141.12
	141.12	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+120W

HOLE: Rau-09-43
CLAIM: Rau 97f

Easting	Northing	Elev.	Depth (m)
528418	7119140	1267	117.03

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ (150' NQ2)
Casing depth: 42.67 (m) in

Drilling dates: July 30 - August 4, 2009

Logged by: S. Magnusson

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	5.20	5.20	OVB	
5.20	8.95	3.75	DOL	Rubbly
8.95	42.06	33.11	OX	Clay rich
42.06	43.59	1.53	DOL	Oxidized
43.59	48.90	5.31	OX	
48.90	57.75	8.85	DOL	Oxidized
57.75	69.49	11.74	LST	Oxidized
69.49	73.60	4.11	LST	
73.60	76.10	2.50	LST	Oxidized
76.10	96.26	20.16	MBL	
96.26	99.60	3.34	LST	Fossiliferous
99.60	106.10	6.50	MBL	
106.10	117.03	10.93	LST	

SAMPLES

Numbers: H884703-H884726, H884764-H884768
Batches 31,32,33
Total: 29
Date sent:
Certificate: VO09088240, VO09088241, VA09089513

COMMENTS

unable to pull casing, lost 90' HQ rod

GEOLOGY LOG

HOLE: Rau-09-43

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	5.20	5.20	OVB																			No Recovery
5.20	8.95	3.75	DOL	RBL	BN	FO	70															Medium grey, coarse grained, banded rubbly dolomite. Increasing slight oxidation on joints towards 8.95 m, and increasing brecciation/crackled appearance.
																						5.49-8.00 m: Grey, gritty homogeneous unaltered dolomite.
8.95	42.06	33.11	OX	CLY		CN	70					I										Orange-brown gritty clay, oxidized mineralized dolomite with intervals of 5-10 cm semi-intact banded dolomite to measure foliation. Unit reacts with acid.
						FO	70															8.95-13.00 m: Orange-brown clay/sand with red-brown patches and some intact core pieces. Sharp contact with above dolomite at 70 deg TCA. At 10.20 m: Clear banding occurs at 75 deg to CA. (COLOUR: 5YR 4/4 - reddish brown)
						FO	40															13.00-17.68 m: light brown silt sized, gradually more competent towards 17.68 m. Maroon-brown inside of the clay core. At 17m clear banding occurs at 55 deg to CA(COLOUR: 7.5YR 4/4 brown)
						BD	55															
																		Qz	t			17.68-22.10 m: Red-brown clay with trace fine sand quartz grains and mica grains. Faint banding occurs but its orientation is indistinguishable (COLOUR: 7.5YR 4/6 - strong brown)
																						22.10-29.20 m: Poor recovery of runny, medium brown fine clay. (COLOUR: 7.5YR 3/4 - dark brown)
																		Qz	t			29.20-34.44 m: Red-brown sandy clay with trace quartz sand grains. (COLOUR 2.5YR 4/6)
																						34.44-37.49 m: Yellow brown clay with trace "galena grey" patches and moderate pink-red (hematite?) patches. (COLOUR:10YR 5/6 - yellowish brown)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						37.49-40.54 m: Medium brown clay with patches of chocolate brown (siderite?) and maroon-brown. (COLOUR: 5YR 4/4 - reddish brown)
						FO	70											Qz	w			40.54-42.06 m: Light chocolate brown moderately oxidized sandy-clay with weak quartz and mica grains. (COLOUR: 7.5YR 4/3 - brown)
42.06	43.59	1.53	DOL	OX	CR	FO	45															Cream-brown, crackled, coarse grained dolomite with minor quartz veins and moderately-strong oxidized sulphides.
43.59	48.90	5.31	OX			FO	60					s						Qz	t			Rusty orange-brown strongly oxidized, pitted dolomite. This zone is in competent pieces, does no react with acid much and is composed of 5% pits from sulphides. Minor limonite, hematite and rare silver, vitreous, radiating As rich mineral.
																						47.25-48.90 m: Rubbly, crumbly zone of sand to pebble sized. Same rusty-orange colour. (COLOUR 2.5YR 4/4)
48.90	57.75	8.85	DOL	OX	CR	FO	40					m			w	t						Brown to light cream, variably oxidized coarse-grained, lightly mineralized dolomite. Weathering is sporadic, from light to strong, often leaving 5 mm pits(1-2%) from sulphides. 3% 1-5 mm disseminated euhedral pyrite grains, some along fractures. 1% 1 mm 10-25 deg TCA carbonate stringers cross-cutting, with 1 mm sulphide oxidation halos.
				MX																		
57.75	69.49	11.74	LST	OX	CR	FO	50		ms						t							Brown to medium grey, fairly oxidized, moderately dolomitized, crackled limestone. Oxidized trace 1 mm euhedral disseminated patches of pyrite remain Cross-cutting low angle (1% abundance) healed 1 mm carbonate veinlets host trace fine grained pyrite About 30% coarse grained dolomite veins with random orientations, decreasing in abundance dow section. This is a large gradational contact.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
69.49	73.60	4.11	LST		BX				w													Light grey limestone fluid breccia, weak to trace dolomite alteration. Minor alteration/bleaching near upper contact.
73.60	76.10	2.50	LST	OX	BX	FO	45		ms			m										Pale grey, slightly oxidized dolomitized limestone. Rubbly and strongly oxidized upper contact, similar but smaller lower contact. Weak foliation at 45 deg to CA.
76.10	96.26	20.16	MBL			CN	60			n			Hem	w								Marbleized limestone, more limestone near upper contact, and it becomes white in the first meter.
						FO	50			t			Hem	f								78.80-79.50 m: grey limestone.
						FO	50			w												Weak to moderate hematite alteration. Sericite altered bands.
96.26	99.60	3.34	LST	FOS	BN	FO	50															Banded and strained fossiliferous limestone.
99.60	106.10	6.50	MBL			CN	50			t			Hem	f								Abrupt contact <10 cm. Hematite stained marble with sericite altered bands. Gougy hematite mud near lower contact.
106.10	117.03	10.93	LST		BN	FO	60								t							Light grey, banded limestone, slight marbleization near upper contact.
																						106.25-108.50 m: rubbly with hematite mud. Trace pyrite along fractures and foliation.
																						117.03 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-43

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
5.20	5.49	0.29	0.29	100	0.00	0	MS	SW	
5.49	7.01	1.52	0.14	9	0.00	0	EW	EW	
7.01	8.53	1.52	0.13	9	0.00	0	EW	EW	
8.53	10.06	1.53	0.70	46	0.21	14	EW	EW	
10.06	11.58	1.52	1.20	79	0.00	0	EW	EW	
11.58	13.11	1.53	0.52	34	0.00	0	EW	EW	
13.11	14.63	1.52	1.52	100	0.00	0	EW	EW	
14.63	16.15	1.52	0.49	32	0.10	7	EW	EW	
16.15	17.68	1.53	0.61	40	0.10	7	EW	EW	
17.68	19.20	1.52	0.85	56	0.00	0	EW	EW	
19.20	20.73	1.53	1.20	78	0.00	0	EW	EW	
20.73	22.25	1.52	0.97	64	0.00	0	EW	EW	
22.25	23.77	1.52	0.13	9	0.00	0	EW	EW	
23.77	25.30	1.53	0.55	36	0.00	0	EW	EW	
25.30	26.82	1.52	0.00	0	0.00	0	EW	EW	
26.82	28.35	1.53	0.07	5	0.00	0	EW	EW	
28.35	29.87	1.52	1.00	66	0.00	0	EW	EW	
29.87	31.39	1.52	0.95	63	0.00	0	EW	EW	
31.39	32.92	1.53	1.15	75	0.00	0	EW	EW	
32.92	34.44	1.52	0.96	63	0.00	0	EW	EW	
34.44	35.97	1.53	1.12	73	0.00	0	EW	EW	
35.97	37.49	1.52	1.25	82	0.00	0	EW	EW	
37.49	39.01	1.52	1.31	86	0.00	0	EW	EW	
39.01	40.54	1.53	0.76	50	0.00	0	EW	EW	
40.54	42.06	1.52	1.06	70	0.20	13	EW	EW	
42.06	43.59	1.53	1.53	100	1.21	79	W	HW	
43.59	45.11	1.52	1.50	99	1.09	72	W	HW	
45.11	46.63	1.52	1.52	100	1.27	84	W	HW	
46.63	48.16	1.53	1.10	72	0.48	31	W	HW	
48.16	49.68	1.52	0.84	55	0.00	0	EW	EW	
49.68	51.21	1.53	0.95	62	0.49	32	MS	MW	
51.21	52.73	1.52	0.89	59	0.47	31	MS	MW	
52.73	54.25	1.52	1.49	98	1.07	70	MS	MW	
54.25	55.78	1.53	1.41	92	1.16	76	MS	MW	
55.78	57.30	1.52	1.48	97	1.31	86	MS	MW	
57.30	58.83	1.53	1.36	89	1.11	73	MS	MW	
58.83	60.35	1.52	1.52	100	1.32	87	MS	MW	
60.35	61.87	1.52	1.34	88	1.18	78	MS	SW	
61.87	63.40	1.53	1.51	99	1.41	92	MS	SW	
63.40	64.92	1.52	1.52	100	1.24	82	MS	SW	
64.92	66.45	1.53	1.53	100	1.23	80	MS	SW	
66.45	67.97	1.52	1.40	92	0.99	65	MS	SW	
67.97	69.49	1.52	1.52	100	1.42	93	MS	SW	
69.49	71.02	1.53	1.12	73	0.97	63	MS	SW	
71.02	72.54	1.52	1.50	99	0.76	50	MS	SW	Reduced to NQ core.
72.54	75.59	3.05	2.45	80	1.35	44	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
75.59	78.64	3.05	2.76	90		0	MS	SW	
78.64	81.69	3.05	2.55	84	0.79	26	MS	SW	
81.69	84.73	3.04	3.04	100	1.81	60	MS	SW	
84.73	87.78	3.05	2.94	96	2.39	78	MS	SW	
87.78	90.83	3.05	3.02	99	2.07	68	MS	SW	
90.83	93.88	3.05	2.23	73	1.15	38	MS	SW	
93.88	96.93	3.05	3.05	100	2.00	66	MS	SW	
96.93	99.97	3.04	3.04	100	2.41	79	MS	SW	
99.97	103.02	3.05	2.67	88	1.51	50	MS	SW	
103.02	106.07	3.05	2.70	89	0.96	31	MS	SW	
106.07	109.12	3.05	2.64	87	0.88	29	MS	SW	
109.12	112.17	3.05	3.05	100	1.45	48	MS	SW	
112.17	115.21	3.04	2.72	89	1.10	36	MS	SW	
115.21	117.03	1.82	1.82	100	0.76	42	MS	SW	
	117.03	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-43

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
8.95	11.58	2.63	1.45	55	H884703	3.5	31	0.85	0.15	18000	146.00	
11.58	13.00	1.42	0.67	47	H884704	1.5	31	0.55	0.11	28000	75.10	
13.00	14.40	1.40	1.40	100	H884706	4.0	31	5.02	0.15	16400	116.50	
14.40	17.68	3.28	1.36	41	H884707	4.0	31	0.18	0.10	5360	82.40	
17.68	20.73	3.05	2.15	70	H884708	4.5	31	2.41	0.41	30200	152.50	
20.73	22.25	1.52	1.05	69	H884709	2.5	31	1.67	0.27	19100	94.20	
22.25	25.30	3.05	0.70	23	H884710	2.0	31	0.31	0.19	6390	74.60	No recovery (25.30-26.82)
26.82	29.87	3.05	1.15	38	H884711	2.5	31	1.72	0.11	14100	752.00	
29.87	32.92	3.05	2.40	79	H884712	6.0	31	4.41	0.21	11900	955.00	
32.92	35.97	3.05	2.20	72	H884713	7.5	31	8.18	1.35	19200	2250.00	
35.97	39.01	3.04	2.57	85	H884715	6.5	32	1.02	0.70	11000	278.00	
39.01	41.70	2.69	1.61	60	H884716	4.0	32	0.67	0.31	6160	467.00	
41.70	43.59	1.89	1.77	94	H884717	6.0	32	0.11	0.13	2120	38.00	
43.59	46.63	3.04	3.04	100	H884718	11.0	32	1.63	0.59	13600	382.00	
46.63	48.90	2.27	1.66	73	H884719	3.5	32	0.45	0.44	12300	396.00	
48.90	51.21	2.31	1.41	61	H884721	3.0	32	0.17	0.22	1460	23.40	
51.21	54.25	3.04	2.33	77	H884722	7.0	32	0.07	0.16	926	16.70	
54.25	57.30	3.05	2.89	95	H884723	10.0	32	0.03	0.19	500	71.50	
57.30	60.35	3.05	2.93	96	H884724	11.0	32	0.04	0.12	433	10.45	
60.35	63.40	3.05	2.86	94	H884725	11.5	32	<0.01	0.08	97	14.90	
63.40	66.45	3.05	3.05	100	H884726	12.0	32	0.01	0.12	235	19.15	
66.45	69.49	3.04	3.01	99	H884764	11.0	33	<0.01	0.85	160	3.80	
69.49	72.54	3.05	2.46	81	H884766	8.0	33	<0.01	0.97	60	11.15	
72.54	76.10	3.56	2.84	80	H884767	7.5	33	0.01	0.72	944	3.51	
76.10	78.64	2.54	2.34	92	H884768	6.0	33	<0.01	0.30	207	0.34	
-	-	-			H884705	4.0	31	<0.01	0.07	37	0.40	Blank
-	-	-			H884714	0.3	31	5.04	0.11	21700	461.00	Standard R-3
-	-	-			H884720	4.0	32	0.01	0.06	18	0.56	Blank
66.45	69.49	3.04	3.01	99	H884765	5.5	33	<0.01	0.88	171	3.42	Duplicate

DENSITY LOG

HOLE: Rau-09-43

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
54.50	DOL	OX		14.4	6.1	1132.0	717.6	2.67	2.73
59.90	LST	DOL		14.3	6.1	1043.5	632.2	2.48	2.54
63.50	LST	DOL		15.0	6.1	1226.5	794.7	2.78	2.84
67.00	LST	DOL		14.2	6.1	1117.2	706.2	2.67	2.72
84.90	MBL			15.0	5.1	824.6	520.9	2.71	2.72

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-43

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
6.00	DOL	RBL	1.24	
7.00	DOL	RBL	0.80	
8.00	DOL	RBL	0.06	
9.00	OX	CLY	0.06	
10.00	OX	CLY	0.11	
11.00	OX	CLY	0.47	
12.00	OX	CLY	0.35	
13.00	OX	CLY	0.20	
14.00	OX	CLY	0.36	
15.00	OX	CLY	0.35	
16.00	OX	CLY	0.40	
17.00	OX	CLY	0.25	
18.00	OX	CLY	0.18	
19.00	OX	CLY	0.31	
20.00	OX	CLY	0.28	
21.00	OX	CLY	0.21	
22.00	OX	CLY	0.25	
23.00	OX	CLY	0.18	
24.00	OX	CLY	0.13	
25.00	OX	CLY	0.10	
26.00	OX	CLY		
27.00	OX	CLY	0.20	
28.00	OX	CLY	0.20	
29.00	OX	CLY	0.87	
30.00	OX	CLY	0.38	
31.00	OX	CLY	0.50	
32.00	OX	CLY	0.73	
33.00	OX	CLY	0.20	
34.00	OX	CLY	0.48	
35.00	OX	CLY	0.48	
36.00	OX	CLY	0.36	
37.00	OX	CLY	0.42	
38.00	OX	CLY	0.20	
39.00	OX	CLY	0.35	
40.00	OX	CLY	0.42	
41.00	OX	CLY	0.33	
42.00	OX	CLY	0.28	
43.00	DOL	ALT	0.21	
44.00	OX		0.68	
45.00	OX		0.85	
46.00	OX		0.95	
47.00	OX		0.85	
48.00	OX		0.43	
49.00	DOL	MX	0.28	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
50.00	DOL	MX	0.20	
51.00	DOL	MX	0.16	
52.00	DOL	MX	0.40	
53.00	DOL	MX	0.33	
54.00	DOL	MX	0.16	
55.00	DOL	MX	0.36	
56.00	DOL	MX	0.30	
57.00	DOL	MX	0.33	
58.00	LST	OX	0.10	
59.00	LST	OX	0.20	
60.00	LST	OX	0.26	
61.00	LST	OX	0.15	
62.00	LST	OX	0.16	
63.00	LST	OX	0.21	
64.00	LST	OX	0.33	
65.00	LST	OX	0.21	
66.00	LST	OX	0.05	
67.00	LST	OX	0.13	
68.00	LST	OX	0.20	
69.00	LST	OX	0.11	
70.00	LST		0.16	
71.00	LST		0.11	
72.00	LST		0.03	
73.00	LST		0.07	
74.00	LST	OX	0.05	
75.00	LST	OX	0.20	
76.00	LST	OX	0.42	
77.00	MBL		0.05	
78.00	MBL		0.31	
79.00	MBL		0.05	
80.00	MBL		0.18	
81.00	MBL		0.05	
82.00	MBL		0.03	
83.00	MBL		0.03	
84.00	MBL		0.05	
85.00	MBL		0.12	
86.00	MBL		0.31	
87.00	MBL		0.23	
88.00	MBL		0.10	
89.00	MBL		0.16	
90.00	MBL		0.23	
91.00	MBL		0.05	
92.00	MBL		0.09	
93.00	MBL		0.36	
94.00	MBL		0.10	
95.00	MBL		0.07	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
96.00	MBL		0.31	
97.00	LST		0.25	
98.00	LST		0.10	
99.00	LST		0.14	
100.00	LST		0.03	
101.00	LST		0.05	
102.00	LST		0.58	
103.00	LST		0.01	
104.00	LST		0.14	
105.00	LST		0.03	
106.00	LST		0.05	
107.00	LST		0.05	
108.00	LST		0.18	
109.00	LST		0.07	
110.00	LST		0.29	
111.00	LST		0.05	
112.00	LST		0.12	
113.00	LST		0.21	
114.00	LST		0.07	
115.00	LST		0.14	
116.00	LST		0.40	
117.00	LST		0.03	

HOLE: Rau-09-43

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	5.20	12.80			
2	12.80	17.68			
3	17.68	22.10			
4	22.10	30.20			
5	30.20	34.30			
6	34.30	38.35			
7	38.35	42.75			
8	42.75	46.24			
9	46.24	51.15			
10	51.15	55.71			
11	55.71	59.76			
12	59.76	63.92			
13	63.92	67.97			
14	67.97	72.20			
15	72.20	76.70			
16	76.70	80.69			
17	80.69	84.53			
18	84.53	88.88			
19	88.88	93.83			
20	93.83	97.48			
21	97.48	101.35			
22	101.35	105.93			
23	105.93	109.91			
24	109.91	114.00			
25	114.00	117.03			
	117.03	E.O.H.			

RAU PROJECT

ZONE: Tiger
SECTION: 09+850W

HOLE: Rau-09-44
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528627	7118971	1306.16	288.04

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-83	compass				

Core size: BTW
Casing depth: 1.54 (m) out

Drilling dates: August 1 - 4, 2009

Logged by: M. Dumala

Target:

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.35	4.35	OVB	
4.35	13.61	9.26	VOL	Oxidized
13.61	138.20	124.59	LST	
138.20	141.73	3.53	VOL	Mineralized
141.73	166.28	24.55	VOL	with magnetite
166.28	183.59	17.31	VOL	
183.59	206.75	23.16	DOL	Mineralized
206.75	208.45	1.70	LST	
208.45	231.83	23.38	DOL	
231.83	259.80	27.97	LST	Dolomitized
259.80	288.04	28.24	LST	Brecciated

SAMPLES

Numbers: H884727-H884763, H884769-H884790
Batches 32, 33, 34
Total: 59
Date sent:
Certificate: VO09088241, VA09089513, VA09086498

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-44

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	4.35	4.35	OVB																			No recovery.
4.35	13.61	9.26	VOL	OX	BN	FO	30			s	s	w			w	t		Mag	f			Light brown to pale green, slightly oxidized, strained calcified volcaniclastic, with 40% sericite, 35% biotite, 20% calcite and 5% magnetite and sulphides. Increasing strained texture and calcification towards bottom of the unit. Unit is moderately magnetic, with aphanitic magnetite (refe to the magnetic susceptibility readings).
																						4.35-4.70 m: Pale orange, strongly oxidized, rubbly section, surficial weathering.
						FO	25								t	n						4.70-8.07 m: 60% sericite, 30% biotite and 10% calcite in a sericite matrix, with 1-5 mm biotite "polka dots" with strained foliation, also featuring 0.5-1 cm calcite clasts.
										s	w				ms							8.07-9.77 m: 7% 0.5-1 cm blotchy, strained, anhedral pyrite blobs encased in quartz, 0.5 mm bordering around the pyrite grains.
										s	s				n	n						9.77-12.60 m: highly strained biotite surrounding sericite bands with 25% calcite flooding patches. Rubbly 4 cm contact with limestone.
13.61	27.70	14.09	LST		CR							w			t							Medium grained, crackled limestone with trace pyrite. A variable crackled and patchy brecciated texture overprints the original banding, with oxidatio on the joints. Trace 1 mm randomly oriented healed carbonate stringers occur.
															s							15.70-15.80 m: Coarse pyrite almost dark brown, magnetic, aphanitic matrix and surrounding blobs.- magnetite?
						FO	30															15.80-17.80 m: Lightly crackled limestone with foliation at 30 deg to CA.
					BN	FO	50															26.00-27.70 m: Banded limestone at 50 deg to CA.
27.70	36.21	8.51	LST		BN																	Medium grey, variably oxidized, chloroform banded, mottled limestone with zones of crackled limestone. 3 mm to 1 cm chloroform bands with fibrous edges form this texture.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
												ms			t							29.90-31.09 m: Rusty brown, moderately weathered, slightly pitted zone
						FO	40					s										33.70-35.36 m: Highly weathered rusty brown, strongly (1mm) pitted, slightly rubbly oxidized zone.
36.21	67.63	31.42	LST		CR	FO	50					t			t							Medium grey, variably crackled, poorly mineralized limestone with slight oxidation on joints. A sporadic light crackle and fluid brecciation overprints the original banding. Rare 1-10 mm carbonate veinlets cross-cut the unit at random orientations.
						FO	50															37.80 m: Foliation at 50 deg to CA.
						FO	60															41.15 m: Foliation at 60 deg to CA.
						FO	40															45.30 m: Foliation at 40 deg to CA.
						FO	45								ms							44.58-44.73 m and 46.00-46.25 m: slightly altered, pyrite rich 1 cm foliaform bands.
						FO	50															54.86-67.63 m: Foliation at 50 deg to CA.
67.63	89.99	22.36	LST		BX	BN	50				ms				t							Medium grey and white fluid collapse brecciated limestone. Brecciated texture consists of medium grey 2-10 mm clasts with 60% matrix supported. Moderate 0.5-1 cm multigenerational carbonate veins foliaform and later cross-cutting at multiple angles.
																						70.91-71.00 m: Small rubbly, oxidized zone with 10% quartz on a plane at 30 deg to CA, and coarse sand-sized clasts - fault?
																						74.10 m: 2 cm of medium grained, subhedral pyrite on clay coated joint, 85 deg to CA.
						FO	20															82.40 m: Foliation at 20 deg to CA.
						FO	35															83.15 m: Foliation at 35 deg to CA.
						BN	55															86.96 m: Foliation at 55 deg to CA.
																						86.30-87.80 m: Darker grey carbonate breccia matrix around limestone pieces with thin white alteration rims - later or higher temperature.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
89.99	123.70	33.71	LST		CR	FO	50				f											Dark grey, poorly mineralized, hydrothermally disturbed, variable textured limestone. Some relict banding exists, overprinted by small, meter scaled events of fluid collapse breccia, crackled and mosai strained textured, with carbonate and quartz veining.
																						92.95-97.30 m: Grey, elongate mottled, camo-spotted limestone with minor brecciation.
												w			f							98.55-100.58 m: slight brecciation of lightly oxidized limestone, with 6% carbonate stringers containing pyrite rimmed quartz in larger veins.
																						101.80-102.27 m: 10% 1 cm carbonate rounded clasts containing pyrite and quartz inside. Looks almost amygdaloidal.
						FO	30				w											105.57-108.20 m: 5% carbonate nodules, becoming pyrite poor and more brecciated downhole.
																						108.20-113.00 m: Unique brecciation and convolute textures.
															f							118.20-120.00 m: 3% 1 cm anhedral pyrite blobs in fluid breccia.
123.70	138.20	14.50	LST		BN	FO	20						MBL	w	t							Dark grey strain banded limestone with strained carbonate fluid breccia zones. The unit becomes more strained, brecciated and marbleized at the end of the unit. Pinched carbonate clasts 4% occur along the foliation.
						FO	25															123.70-129.39 m: weak strain bands at 25 deg to CA.
						FO	0															129.39-130.40 m: change in foliation angle to 0 deg to CA.
						FO	20															130.40-132.44 m: Foliation at 20 deg to CA.
													MBL	w								132.44-137.83: Fluid collapse breccia, becoming slightly marbleized.
			MBL			FO	40								t							137.83-138.20 m: light grey, fine grained, recrystallized marble, gradational contact with volcaniclastic.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
138.20	141.73	3.53	VOL	MX	BN	FO	40			s					m							Pale green, mineralized sericite-rich volcaniclastic. Unit becomes more biotite rich at depth. Moderate fine grained pyrite occurs disseminated throughout.
															l							139.40-140.03 m: Massive fine-grained pyrite, thickly disseminated in sericite.
																						140.52-141.73 m: Moderately crackle brecciated with biotite towards a gradational contact.
141.73	166.28	24.55	VOL		FO	FO	30			s			Bio	I				Mag	m			Medium to dark grey, strain banded biotite rich volcaniclastic. This gradational unit begins with 1-4 cm biotite lenses (and peppered) that are moderately strained, poorly defining foliation, to gradually more peppered and banded with increasing sericite and magnetite. Pyrite is found along foliation, and subjected to the same strain.
						FO	35			t			Bio	60	t							141.73-153.92 m: Convolute 60% biotite strained lenses. Trace pyrite and sericite.
																						149.00-166.28 m: Gradational increase in the concentration of fine grained magnetite. The magnetic susceptibility is significantly increased in this zone.
						Of	35			f			Bio	40	t							153.92-158.85 m: Evenly banded volcaniclastic with strained biotite foliaforms.
						FO	30			m			Bio	I	t							158.85-166.28 m: Increasing sericite, biotite becoming less abundant and more fine grained.
166.28	183.59	17.31	VOL	ALT	BN	FO	40			l					w	t						Light green, banded, sericite-rich volcaniclastic with aphanitic magnetite, 5% "peppered" biotite, minor chlorite alteration and very trace fuchsite? (chrome mica, emerald green). Medium to coarse grained pyrite and trace arsenopyrite appear in foliaform 0.5-2 cm bands and in disseminated form. Strained in the foliation. Upper and lower contacts are gradational for a few meters.
						FO	40			s					f							170.69-176.95 m: Zone becoming more biotite rich with 1% chlorite alteration along bands and with pyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	75			n					s		t					176.95-179.00 m: Medium-grained dolomite with minor quartz intersection, hosting 13% pyrite as fine to medium grained bands 1-5 cm thick 75 deg to CA.
															ms							179.00-183.59 m: Cream-pale green sericite dominant with rare fuchsite? (emerald green grains) and moderate to strong pyrite content. Also, 30 cm quartz flooding zones, hosting moderate pyrite.
183.59	206.75	23.16	DOL	MX	BN	BD	45								s	t						Light grey, coarse grained, recrystallized, mineralized, quartz rich dolomite. 15% medium grained, subhedral pyrite forming 1 cm bands and disseminated patches. Some regions of smoky grey shattered quartz. 20 cm gradational contact with volcanic unit. Trace white, soft crystalline 0.5 mm sucrosic mineral, especially noticeable on fresh fractures - gypsum (Trace pale yellow UV-reactive grains - not scheelite)
																						189.70-191.69 m: 30-60% smoky grey "impact shattered" coarse grained quartz with an equal concentration of pyrite as the rest of the unit.
															f							197.82-199.55 m: 90% massive, coarse grained quartz with a 15 cm patch of pyrite in a chlorite altered carbonate fluid intrusion. Rare 0.5 mm carbonate stringers.
						BD	35								w							199.55-203.13 m: 2% pyrite. Banding occurs at 35 deg to CA.
206.75	208.45	1.70	LST		BN	BD	35															Alternating 1 mm swaley grey and black banded limestone, amongst the dolomite. Irregular 0 deg to CA contact with upper dolomite and 60 deg to CA irregular contact with lower dolomite.
						CN	0															
						CN	60															
208.45	231.83	23.38	DOL		CR	FO	35								w							Light to medium grey, slightly crackled coarse grained, slightly mineralized dolomite.
						FO	30								f							208.45-212.22 m: 4% pyrite.
						FO	35								n							212.22-212.95 m: 35 deg to CA 0.5 cm vugs in coarse grained quartz. (dissolved carbonate?)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	30								I							219.40-220.20 m: 20% pyrite in fine disseminations.
						FO	30															224.60-231.85 m: 4% pyrite, equally distributed as 1 mm subhedral grains. Gradational contact with lowe limestone.
231.83	259.80	27.97	LST	DOL	CR	FO	30								f							Medium grey, lightly to moderately dolomitized, slightly crackled limestone. Crackled banding reveals foliation as sporadic clusters of fine to medium grained pyrite form disseminations.
						FO	30															232.00 m: foliation at 30 deg to CA.
						FO	25															233.60 m: foliation at 25 deg to CA.
						FO	40															238.50 m: foliation at 40 deg to CA.
						FO	35															242.01m: foliation at 35 deg to CA.
						FO	40															255.70 m: foliation at 40 deg to CA.
						FO	25															259.60 m: foliation at 25 deg to CA.
259.80	288.04	28.24	LST		BX										t							Medium grey, fine grained solution breccia. This reworked "milled" breccia contains 3% 1 mm subrounded, non-fissile black fragments (silicic material?) in a fine grained white and grey matrix. Rare 1 mm charcoal coloured bands reveal banding About 2 meter gradational contact with dolomitized limestone.
						FO	20															259.80-278.89 m: foliation at 20 deg to CA.
						FO	30															278.89-288.04 m: foliation at 30 deg to CA.
																						275.84-284.10 m: Not only a milled breccia, but increased centimetre scale carbonate veins, producing a crackled, mottled texture overprinting the milled breccia. Same texture, but to a lesser extent in other zones of this unit.
																						288.04 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-44

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
4.35	4.57	0.22	0.22	100	0.00	0	MS	SW	
4.57	6.10	1.53	1.53	100	1.20	78	MS	SW	
6.10	9.14	3.04	2.96	97	2.77	91	MS	SW	
9.14	12.19	3.05	2.18	71	1.91	63	MS	SW	
12.19	14.94	2.75	2.75	100	2.35	85	MS	SW	
14.94	17.98	3.04	3.02	99	2.80	92	MS	SW	
17.98	21.03	3.05	3.05	100	1.62	53	MS	SW	
21.03	23.77	2.74	2.39	87	1.95	71	MS	SW	
23.77	26.82	3.05	2.97	97	2.22	73	MS	FR	
26.82	27.43	0.61	0.57	93	0.36	59	MS	FR	
27.43	30.18	2.75	2.28	83	0.90	33	MS	FR	
30.18	31.09	0.91	0.58	64	0.00	0	MS	HW	
31.09	33.53	2.44	2.44	100	1.25	51	MS	HW	
33.53	35.36	1.83	1.31	72	0.12	7	S	HW	
35.36	38.10	2.74	2.74	100	2.55	93	MS	FR	
38.10	41.15	3.05	2.93	96	2.34	77	MS	FR	
41.15	44.20	3.05	3.05	100	2.77	91	MS	FR	
44.20	47.24	3.04	3.04	100	2.72	89	MS	FR	
47.24	49.38	2.14	2.02	94	1.33	62	MS	FR	
49.38	51.82	2.44	2.44	100	1.42	58	MS	FR	
51.82	54.86	3.04	3.04	100	2.68	88	MS	FR	
54.86	57.91	3.05	3.05	100	2.90	95	MS	FR	
57.91	60.66	2.75	2.75	100	2.41	88	MS	FR	
60.66	60.81	0.15	0.15	100	0.15	100	MS	FR	
60.81	64.01	3.20	3.15	98	3.15	98	MS	FR	
64.01	67.06	3.05	3.05	100	2.95	97	MS	FR	
67.06	68.88	1.82	1.82	100	1.70	93	MS	FR	
68.88	71.63	2.75	2.72	99	1.85	67	MS	FR	
71.63	74.68	3.05	2.90	95	2.60	85	MS	FR	
74.68	75.74	1.06	0.83	78	0.64	60	MS	FR	
75.74	77.72	1.98	1.78	90	1.73	87	MS	FR	
77.72	79.71	1.99	1.99	100	1.37	69	MS	FR	
79.71	82.30	2.59	2.59	100	2.37	92	MS	FR	
82.30	85.34	3.04	3.04	100	3.02	99	MS	FR	
85.34	87.93	2.59	2.51	97	2.25	87	MS	FR	
87.93	89.92	1.99	1.99	100	1.99	100	MS	FR	
89.92	91.74	1.82	1.55	85	1.00	55	MS	FR	
91.74	94.49	2.75	2.68	97	2.51	91	MS	FR	
94.49	97.54	3.05	3.00	98	2.80	92	MS	FR	
97.54	100.58	3.04	2.75	90	2.28	75	MS	SW	
100.58	102.72	2.14	2.14	100	1.82	85	MS	SW	
102.72	105.16	2.44	2.37	97	1.33	55	MS	SW	
105.16	108.20	3.04	3.04	100	3.02	99	MS	FR	
108.20	111.25	3.05	3.05	100	2.98	98	MS	FR	
111.25	114.30	3.05	2.91	95	2.75	90	MS	FR	
114.30	117.35	3.05	3.05	100	2.93	96	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
117.35	120.40	3.05	3.05	100	3.03	99	MS	FR	
120.40	122.22	1.82	1.82	100	1.82	100	MS	FR	
122.22	124.36	2.14	1.94	91	1.84	86	MS	FR	
124.36	126.49	2.13	1.95	92	1.95	92	MS	FR	
126.49	129.39	2.90	2.90	100	2.90	100	MS	FR	
129.39	132.44	3.05	3.05	100	3.02	99	MS	FR	
132.44	135.64	3.20	3.17	99	2.97	93	MS	FR	
135.64	138.68	3.04	3.04	100	2.95	97	MS	FR	
138.68	141.73	3.05	3.05	100	2.75	90	MS	FR	
141.73	144.78	3.05	3.05	100	3.00	98	MS	FR	
144.78	147.83	3.05	3.05	100	2.78	91	MS	FR	
147.83	150.88	3.05	3.05	100	2.82	92	MS	FR	
150.88	153.92	3.04	3.04	100	2.90	95	MS	FR	
153.92	156.67	2.75	2.75	100	2.64	96	MS	FR	
156.67	159.56	2.89	2.89	100	2.68	93	MS	FR	
159.56	161.54	1.98	1.96	99	1.80	91	MS	FR	
161.54	163.98	2.44	2.44	100	2.11	86	MS	FR	
163.98	165.51	1.53	1.53	100	1.05	69	MS	FR	
165.51	166.73	1.22	1.05	86	0.90	74	MS	FR	
166.73	167.64	0.91	0.91	100	0.28	31	MS	FR	
167.64	169.47	1.83	1.75	96	1.31	72	MS	FR	
169.47	170.69	1.22	1.22	100	0.58	48	MS	FR	
170.69	172.67	1.98	1.60	81	0.72	36	MS	FR	
172.67	172.97	0.30	0.26	87	0.00	0	MS	FR	
172.97	174.19	1.22	1.13	93	0.91	75	MS	FR	
174.19	174.65	0.46	0.36	78	0.00	0	MS	FR	
174.65	175.87	1.22	1.22	100	0.57	47	MS	FR	
175.87	177.09	1.22	0.70	57	0.10	8	MS	FR	
177.09	179.53	2.44	2.44	100	1.97	81	MS	FR	
179.53	181.05	1.52	1.52	100	0.80	53	MS	FR	
181.05	182.88	1.83	1.83	100	0.91	50	MS	FR	
182.88	185.93	3.05	3.05	100	1.88	62	MS	FR	
185.93	188.98	3.05	3.05	100	2.74	90	MS	FR	
188.98	192.02	3.04	3.04	100	2.50	82	MS	FR	
192.02	194.77	2.75	2.75	100	2.67	97	MS	FR	
194.77	197.82	3.05	3.02	99	2.72	89	MS	FR	
197.82	200.86	3.04	3.04	100	2.31	76	MS	FR	
200.86	204.22	3.36	3.26	97	3.00	89	MS	FR	
204.22	207.26	3.04	2.77	91	2.55	84	MS	FR	
207.26	210.31	3.05	2.85	93	2.35	77	MS	FR	
210.31	210.92	0.61	0.61	100	0.59	97	MS	FR	
210.92	211.68	0.76	0.76	100	0.51	67	MS	FR	
211.68	214.73	3.05	3.05	100	2.87	94	MS	FR	
214.73	217.78	3.05	3.05	100	2.91	95	MS	FR	
217.78	220.37	2.59	2.59	100	2.44	94	MS	FR	
220.37	223.42	3.05	2.89	95	2.81	92	MS	FR	
223.42	226.47	3.05	3.05	100	3.00	98	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
226.47	229.51	3.04	3.04	100	3.02	99	MS	FR	
229.51	232.71	3.20	3.18	99	2.91	91	MS	FR	
232.71	235.76	3.05	3.05	100	3.02	99	MS	FR	
235.76	238.96	3.20	3.16	99	3.11	97	MS	FR	
238.96	242.01	3.05	3.05	100	2.92	96	MS	FR	
242.01	245.06	3.05	3.05	100	2.71	89	MS	FR	
245.06	248.41	3.35	3.03	90	2.43	73	MS	FR	
248.41	251.46	3.05	3.05	100	2.88	94	MS	FR	
251.46	254.51	3.05	3.02	99	2.75	90	MS	FR	
254.51	257.56	3.05	3.05	100	3.05	100	MS	FR	
257.56	260.60	3.04	3.04	100	2.97	98	MS	FR	
260.60	263.65	3.05	3.05	100	2.83	93	MS	FR	
263.65	266.70	3.05	3.02	99	2.85	93	MS	FR	
266.70	269.75	3.05	3.05	100	2.96	97	MS	FR	
269.75	272.80	3.05	3.02	99	2.94	96	MS	FR	
272.80	275.84	3.04	3.04	100	2.38	78	MS	FR	
275.84	278.89	3.05	3.05	100	3.03	99	MS	FR	
278.89	280.42	1.53	1.53	100	1.43	93	MS	FR	
280.42	283.46	3.04	3.04	100	2.85	94	MS	FR	
283.46	286.51	3.05	3.05	100	2.71	89	MS	FR	
286.51	288.04	1.53	1.53	100	1.13	74	MS	FR	
	288.04	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-44

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
4.70	8.07	3.37	3.32	99	H884727	6.5	32	<0.01	0.14	105	0.75	
8.07	9.77	1.70	1.70	100	H884728	3.0	32	0.01	0.49	386	8.84	
9.77	12.60	2.83	1.98	70	H884729	3.5	32	<0.01	0.46	89	0.31	
12.60	13.61	1.01	1.01	100	H884730	2.0	32	0.01	0.09	47	1.18	
13.61	16.23	2.62	2.62	100	H884732	4.5	32	0.01	0.12	82	356.00	
16.23	19.20	2.97	2.95	99	H884733	5.0	32	0.01	0.02	37	1.64	
19.20	22.20	3.00	2.97	99	H884735	5.0	32	0.01	0.05	107	2.53	
22.20	25.20	3.00	2.74	91	H884736	5.5	32	<0.01	0.05	171	0.91	
25.20	26.14	0.94	0.94	100	H884737	1.5	32	<0.01	0.04	162	0.24	
26.14	28.50	2.36	2.35	100	H884738	4.0	32	<0.01	0.05	421	0.40	
28.50	31.45	2.95	2.16	73	H884739	3.0	32	<0.01	0.24	2000	136.00	
31.45	33.69	2.24	2.24	100	H884740	4.5	32	<0.01	0.07	586	2.32	
33.69	35.36	1.67	1.35	81	H884741	2.0	32	0.02	0.69	11200	5.10	
35.36	38.10	2.74	2.74	100	H884744	4.5	32	<0.01	0.02	130	0.72	
135.20	138.20	3.00	3.00	100	H884745	5.0	32	0.02	0.34	32	0.52	
138.20	140.52	2.32	2.32	100	H884746	5.0	32	0.02	0.24	87	0.95	
140.52	141.73	1.21	1.21	100	H884747	2.0	32	<0.01	<0.01	7	0.09	
141.73	144.78	3.05	3.05	100	H884748	6.0	32	<0.01	<0.01	5	0.05	
144.78	147.83	3.05	3.05	100	H884749	5.5	32	<0.01	<0.01	4	0.06	
147.83	150.88	3.05	3.04	100	H884750	6.5	32	<0.01	<0.01	4	0.06	
150.88	153.92	3.04	3.01	99	H884751	6.0	33	<0.01	0.01	2	0.04	
153.92	157.02	3.10	2.99	96	H884752	6.0	33	<0.01	<0.01	2	0.04	
157.02	160.12	3.10	3.10	100	H884753	6.0	33	0.01	0.07	3	0.07	
160.12	163.22	3.10	3.09	100	H884754	5.5	33	<0.01	<0.01	2	0.03	
163.22	166.28	3.06	2.84	93	H884755	5.5	33	<0.01	<0.01	2	0.10	
166.28	169.30	3.02	2.94	97	H884756	5.0	33	<0.01	0.01	22	0.92	
169.30	172.30	3.00	2.72	91	H884757	5.0	33	<0.01	0.10	39	58.40	
172.30	175.30	3.00	2.65	88	H884758	5.0	33	<0.01	<0.01	28	0.68	
175.30	176.95	1.65	1.24	75	H884759	2.0	33	0.02	<0.01	69	0.45	
176.95	179.00	2.05	2.05	100	H884760	5.0	33	0.33	0.35	1060	1215.00	
179.00	181.66	2.66	2.62	98	H884762	4.5	33	0.02	<0.01	111	3.72	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
181.66	183.59	1.93	1.70	88	H884763	3.5	33	0.30	0.05	166	17.30	
183.59	185.93	2.34	2.34	100	H884769	5.0	33	4.66	0.24	1240	162.50	
185.93	188.98	3.05	2.99	98	H884770	6.5	33	6.95	0.13	1100	255.00	
188.98	192.02	3.04	3.04	100	H884771	6.0	33	0.69	0.08	611	68.30	
192.02	194.77	2.75	2.75	100	H884772	5.5	33	0.15	0.10	597	112.00	
194.77	197.82	3.05	2.95	97	H884773	6.0	33	14.05	0.21	588	195.50	
197.82	200.86	3.04	3.00	99	H884775	5.5	33	0.04	0.10	69	10.20	
200.86	203.86	3.00	2.85	95	H884776	5.5	33	2.27	0.32	278	37.40	
203.86	206.75	2.89	2.55	88	H884777	5.0	33	3.77	0.13	521	116.50	
206.75	208.45	1.70	1.68	99	H884778	3.0	33	0.36	0.25	124	31.30	
208.45	211.50	3.05	2.86	94	H884780	6.0	33	2.52	1.82	581	57.90	
211.50	214.50	3.00	2.74	91	H884781	6.0	33	3.26	0.34	358	89.50	
214.50	217.50	3.00	3.00	100	H884782	6.0	33	0.10	0.05	133	6.52	
217.50	220.37	2.87	2.87	100	H884783	6.0	33	7.97	0.19	542	154.50	
220.37	223.42	3.05	2.90	95	H884785	6.0	33	0.20	0.10	143	15.90	
223.42	226.47	3.05	3.05	100	H884786	6.5	33	0.05	0.07	336	13.45	
226.47	229.51	3.04	3.04	100	H884787	6.0	34	0.33	0.29	334	61.80	
229.51	231.83	2.32	2.21	95	H884788	4.0	34	0.11	0.12	199	31.40	
231.83	234.83	3.00	3.00	100	H884789	6.0	34	0.03	0.15	106	24.30	
234.83	237.83	3.00	2.96	99	H884790	6.0	34	0.14	0.11	196	26.90	
237.83	240.28	2.45	2.41	98	H885386	11.0	60	0.02	0.42	78	29.00	
240.28	242.01	1.73	1.73	100	H885387	4.0	60	0.01	0.11	46	7.51	
242.01	245.06	3.05	3.05	100	H885388	5.5	60	0.03	0.09	12	1.65	
245.06	248.41	3.35	3.05	91	H885389	5.0	60	0.02	0.15	69	5.78	
248.41	250.23	1.82	1.82	100	H885390	4.0	60	0.01	0.11	98	27.10	
250.23	251.99	1.76	1.22	69	H885391	3.5	60	<0.01	0.15	49	4.96	
-	-	-			H884731	0.3	32	0.52	0.92	5060	101.00	Standard R-1
16.23	19.20	2.97	2.95	99	H884734	2.5	32	<0.01	0.02	43	0.65	Duplicate
-	-	-			H884742	0.3	32	1.53	1.85	26600	357.00	Standard R-2
-	-	-			H884743	4.0	32	<0.01	0.03	19	0.33	Blank
-	-	-			H884761	0.3	33	5.56	0.19	39400	461.00	Standard R-3
-	-	-			H884774	4.0	33	<0.01	0.03	<5	0.34	Blank

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H884779	0.3	33	0.47	0.79	5880	101.00	Standard R-1
-	-	-			H884784	4.0	33	0.01	0.04	<5	0.32	Blank

DENSITY LOG

HOLE: Rau-09-44

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
6.30	VOL			14.8	4.2	564.9	362.4	2.75	2.79
10.40	VOL			14.6	4.2	569.4	368.5	2.81	2.83
51.90	LST			14.4	4.2	566.1	367.8	2.84	2.85
60.90	LST			14.6	4.2	565.9	366.3	2.80	2.84
85.20	LST			15.0	4.2	578.4	374.2	2.78	2.83
94.30	LST			14.7	4.2	577.4	373.8	2.84	2.84
108.45	LST			14.6	4.2	572.3	370.0	2.83	2.83
141.10	VOL			14.6	4.2	572.5	371.0	2.83	2.84
145.00	VOL			14.6	4.2	607.2	404.5	3.00	3.00
178.80	DOL			14.6	4.2	611.1	408.8	3.02	3.02
185.40	DOL			14.6	4.2	588.9	384.2	2.91	2.88
195.55	DOL			14.9	4.2	651.1	444.9	3.15	3.16
207.43	LST			14.8	4.2	584.8	378.3	2.85	2.83
213.69	DOL			14.4	4.2	576.5	375.2	2.89	2.86
225.53	DOL			14.8	4.2	608.0	400.8	2.97	2.93
241.27	LST			14.6	4.2	570.0	364.6	2.82	2.78
251.77	LST			14.8	4.2	590.6	383.9	2.88	2.86
266.74	LST			14.6	4.2	582.3	378.0	2.88	2.85
279.80	LST			14.8	4.2	589.6	381.8	2.88	2.84
285.70	LST			14.8	4.2	589.1	381.7	2.87	2.84

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-44

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
5.00	VOL	ALT	0.36	
6.00	VOL	ALT	13.3	
7.00	VOL	ALT	4.92	
8.00	VOL	ALT	5.69	
9.00	VOL	ALT	3.25	
10.00	VOL	ALT	5.55	
11.00	VOL	ALT	3.66	
12.00	VOL	ALT	0.73	
13.00	VOL	ALT	3.93	
14.00	LST		0.06	
15.00	LST		0.36	
16.00	LST		0.14	
17.00	LST		0.59	
18.00	LST		0.06	
19.00	LST		0.06	
20.00	LST		0.04	
21.00	LST		0.06	
22.00	LST		0.24	
23.00	LST		0.08	
24.00	LST		0.24	
25.00	LST		0.04	
26.00	LST		0.02	
27.00	LST		0.06	
28.00	LST		0.1	
29.00	LST		0.38	
30.00	LST		0.16	
31.00	LST		0.2	
32.00	LST		0.24	
33.00	LST		0.06	
34.00	LST		0.47	
35.00	LST		0.41	
36.00	LST		0.08	
37.00	LST		0.04	
38.00	LST		0.08	
39.00	LST		0.06	
40.00	LST		0.02	
41.00	LST		0.86	
42.00	LST		0.04	
43.00	LST		0.12	
44.00	LST		0.08	
45.00	LST		0.06	
46.00	LST		0.04	
47.00	LST		0.06	
48.00	LST		0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
49.00	LST		0.08	
50.00	LST		0.06	
51.00	LST		0.04	
52.00	LST		0.04	
53.00	LST		0.04	
54.00	LST		0.06	
55.00	LST		0.12	
56.00	LST		0.04	
57.00	LST		0.02	
58.00	LST		0	
59.00	LST		0.06	
60.00	LST		0.08	
61.00	LST		0.06	
62.00	LST		0.06	
63.00	LST		0.06	
64.00	LST		0.02	
65.00	LST		0.16	
66.00	LST		0.16	
67.00	LST		0.04	
68.00	LST		0.06	
69.00	LST		0.2	
70.00	LST		0.04	
71.00	LST		0.36	
72.00	LST		0.14	
73.00	LST		0.06	
74.00	LST		0.04	
75.00	LST		0.04	
76.00	LST		0.04	
77.00	LST		0.08	
78.00	LST		0.04	
79.00	LST		0.04	
80.00	LST		0.04	
81.00	LST		0.02	
82.00	LST		0.16	
83.00	LST		0.53	
84.00	LST		0.08	
85.00	LST		0.04	
86.00	LST		0.22	
87.00	LST		0.24	
88.00	LST		0.08	
89.00	LST		0.22	
90.00	LST		0.45	
91.00	LST		0.08	
92.00	LST		0.02	
93.00	LST		0.02	
94.00	LST		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
95.00	LST		0.43	
96.00	LST		0.04	
97.00	LST		0.02	
98.00	LST		0.04	
99.00	LST		0.16	
100.00	LST		0.06	
101.00	LST		0.16	
102.00	LST		0.16	
103.00	LST		0.04	
104.00	LST		0.04	
105.00	LST		0.2	
106.00	LST		0.1	
107.00	LST		0.3	
108.00	LST		0.02	
109.00	LST		0.04	
110.00	LST		0.06	
111.00	LST		0.12	
112.00	LST		0.02	
113.00	LST		0.02	
114.00	LST		0.02	
115.00	LST		0.08	
116.00	LST		0.1	
117.00	LST		0	
118.00	LST		0.04	
119.00	LST		0.28	
120.00	LST		0.06	
121.00	LST		0.04	
122.00	LST		0.26	
123.00	LST		0.06	
124.00	LST		0.04	
125.00	LST		0.02	
126.00	LST		0.04	
127.00	LST		0.18	
128.00	LST		0.1	
129.00	LST		0.04	
130.00	LST		0.02	
131.00	LST		0.02	
132.00	LST		0.1	
133.00	LST		0.16	
134.00	LST		0.24	
135.00	LST		0.08	
136.00	LST		0.22	
137.00	LST		0.02	
138.00	LST		0.1	
139.00	VOL	MX	0.12	
140.00	VOL	MX	0.24	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
141.00	VOL	MX	0.16	
142.00	VOL		0.79	
143.00	VOL		0.77	
144.00	VOL		1.25	
145.00	VOL		0.77	
146.00	VOL		0.59	
147.00	VOL		1.04	
148.00	VOL		0.61	
149.00	VOL		1.8	
150.00	VOL		1.61	
151.00	VOL		62.3	
152.00	VOL		79	
153.00	VOL		47.2	
154.00	VOL		102	
155.00	VOL		73.9	
156.00	VOL		124	
157.00	VOL		181	
158.00	VOL		28.5	
159.00	VOL		1.98	
160.00	VOL		53.4	
161.00	VOL		58.3	
162.00	VOL		135	
163.00	VOL		73.3	
164.00	VOL		27.6	
165.00	VOL		1.78	
166.00	VOL		1.57	
167.00	VOL	ALT	0.49	
168.00	VOL	ALT	0.79	
169.00	VOL	ALT	0.38	
170.00	VOL	ALT	3.07	
171.00	VOL	ALT	7.44	
172.00	VOL	ALT	5.63	
173.00	VOL	ALT	14.8	
174.00	VOL	ALT	3.13	
175.00	VOL	ALT	0.49	
176.00	VOL	ALT	0.16	
177.00	VOL	ALT	0.69	
178.00	VOL	ALT	18.3	
179.00	VOL	ALT	1.27	
180.00	VOL	ALT	1.2	
181.00	VOL	ALT	0.3	
182.00	VOL	ALT	0.18	
183.00	VOL	ALT	0.08	
184.00	DOL	MX	0.63	
185.00	DOL	MX	0.45	
186.00	DOL	MX	1.27	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
187.00	DOL	MX	0.9	
188.00	DOL	MX	0.32	
189.00	DOL	MX	0.2	
190.00	DOL	MX	0.59	
191.00	DOL	MX	0.71	
192.00	DOL	MX	0.38	
193.00	DOL	MX	0.53	
194.00	DOL	MX	0.79	
195.00	DOL	MX	0.34	
196.00	DOL	MX	0.84	
197.00	DOL	MX	0.53	
198.00	DOL	MX	0.02	
199.00	DOL	MX	0.04	
200.00	DOL	MX	1.7	
201.00	DOL	MX	3.95	
202.00	DOL	MX	2.66	
203.00	DOL	MX	1.47	
204.00	DOL	MX	4.83	
205.00	DOL	MX	0.61	
206.00	DOL	MX	1.43	
207.00	LST		0.26	
208.00	LST		0.14	
209.00	DOL		0.18	
210.00	DOL		0.38	
211.00	DOL		0.1	
212.00	DOL		0.14	
213.00	DOL		0.28	
214.00	DOL		0.04	
215.00	DOL		0.08	
216.00	DOL		0.04	
217.00	DOL		0.18	
218.00	DOL		2.15	
219.00	DOL		0.38	
220.00	DOL		0.3	
221.00	DOL		0.53	
222.00	DOL		0.04	
223.00	DOL		0.26	
224.00	DOL		0.18	
225.00	DOL		1.49	
226.00	DOL		0.49	
227.00	DOL		0.51	
228.00	DOL		0.71	
229.00	DOL		0.38	
230.00	DOL		1.35	
231.00	DOL		3.69	
232.00			0.18	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
233.00			0.43	
234.00			0.51	
235.00			0	
236.00			2.99	
237.00			0.16	
238.00			0.16	
239.00			0.14	
240.00			0.04	
241.00			0.28	
242.00			8.38	
243.00			1.16	
244.00			0.06	
245.00			1.04	
246.00			5.49	
247.00			0.59	
248.00			0.04	
249.00			0.06	
250.00			0.77	
251.00			0.08	
252.00			0.08	
253.00			0.12	
254.00			0.02	
255.00			0.06	
256.00			0.06	
257.00			0.04	
258.00			1.14	
259.00			0.08	
260.00			0.1	
261.00			0.08	
262.00			1.06	
263.00			0.06	
264.00			0.04	
265.00			0.14	
266.00			0.08	
267.00			0.04	
268.00			0.06	
269.00			0.04	
270.00			0.04	
271.00			0.06	
272.00			0.04	
273.00			0.57	
274.00			0.08	
275.00			0.12	
276.00			0.2	
277.00			0.04	
278.00			0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
279.00			0.04	
280.00			0.04	
281.00			0.04	
282.00			0.04	
283.00			0.14	
284.00			0.28	
285.00			0.08	
286.00			0.32	
287.00			0.24	
288.00			0.04	

BOX LOG

HOLE: Rau-09-44

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	4.35	10.01	36	200.20	206.23
2	10.01	16.23	37	206.23	211.68
3	16.23	22.04	38	211.68	217.30
4	22.04	27.70	39	217.30	223.22
5	27.70	33.06	40	223.22	228.81
6	33.06	38.54	41	228.81	234.37
7	38.54	44.20	42	234.37	240.28
8	44.20	49.63	43	240.28	245.99
9	49.63	54.06	44	245.99	251.99
10	54.06	60.36	45	251.99	257.77
11	60.36	66.16	46	257.77	263.46
12	66.16	71.45	47	263.46	269.21
13	71.45	77.45	48	269.21	274.82
14	77.45	82.82	49	274.82	280.63
15	82.82	88.60	50	280.63	286.41
16	88.60	94.49	51	286.41	288.04
17	94.49	100.58		288.04	E.O.H.
18	100.58	106.02			
19	106.02	111.68			
20	111.68	117.61			
21	117.61	123.18			
22	123.18	129.13			
23	129.13	134.94			
24	134.94	140.52			
25	140.52	146.22			
26	146.22	151.82			
27	151.82	157.76			
28	157.76	163.20			
29	163.20	168.38			
30	168.38	173.52			
31	173.52	178.35			
32	178.35	183.45			
33	183.45	188.98			
34	188.98	194.63			
35	194.63	200.20			

RAU PROJECT

ZONE: Tiger
SECTION: 9+895W

HOLE: Rau-09-45
CLAIM: Rar 56

Easting	Northing	Elev.	Depth (m)
528606.34	7119005.61	1291	227.08

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-65	compass				

Core size: BTW
Casing depth: 4.57 (m) out

Drilling dates:

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.86	1.86	OVB	
1.86	60.96	59.10	LST	
60.96	77.15	16.19	LST	Fossiliferous
77.15	88.24	11.09	VOL	Altered
88.24	160.54	72.30	DOL	Mineralized
160.54	194.15	33.61	LST	Altered (marblized)
194.15	227.08	32.93	LEP	Leppord spotted volcaniclastic

SAMPLES

Numbers: H884845-H884894
Batches 35, 36
Total: 50
Date sent:
Certificate:

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-45

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.86	1.86	OVB																			
1.86	60.96	59.10	LST		BR	FR	40															Medium grey massive to banded limestone with varying degrees of solution collapse brecciation. The matrix of the breccia is fine to medium grained white calcite with occasional faint yellow stain on fractures.
																						6.40-9.45 m: Quite rubbly zone with yellow/brown stain alteration.
																						13.12-15.47 m: Within the breccia there are dark grey 1-2 mm rims that carefully surround the clasts (reaction rims??) In this interval calcite dominates over limestone 65 % Ca, 35% LST.
																						15.47-17.09 m: Very rubbly to clay altered interval.
						VN	40															28.02-31.80 m: Interval of more massive limestone with faint fluid alteration texture. Qz +/- Ca veins cu at 75 deg to CA.
						VN	75															
						VN	50															31.80-42.22 m: Light-medium and medium grey mottled camo-print limestone. The lighter camo patches are very rounded and may represent bleaches/altered patches. Brecciation overprints this texture. Ca veins also cut the texture at 50 deg to CA. Thin Ca filled fractures occur at 30 deg to CA. Late Qz +/- Ca veins 0.2-0.8 cm thick cut earlier Ca veins. Qz +/- Ca veins occur at 35 deg to CA.
						FR	30															
						VN	35															
				ALT		BD	60		m						t							42.22-60.96 m: Moderately - strongly fluid collapse brecciated dolomitized limestone with sections that are non-brecciated, banded dolomitized limestone. Bands occur at 60 deg to CA. Ca veins cut at 80 deg to CA. Trace pyrite occurs on some fractures as a sporadic dusting. At 53.20 m the limestone becomes less dolomitized.
						VN	80															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	80															
60.96	77.15	16.19	LST	FOS	BN	BD	55															Medium to dark grey banded, fossiliferous limestone. Contacts with upper and lower units are gradual. Banding is strong at 55 deg to CA. Fossils are weak to fair in concentration and include crinoid stem fragments and rare coral mound fragments. Banding is most defined in zones that have gritty interlayers.
																						60.96-61.98 m: Rubble zone with weak orange brown alteration stain on some fractured surfaces.
						BD	55								w							61.98-67.40 m: Dark grey limestone with crinoid stem and coral mound fragments. A fain banded texture occurs at 55 deg to CA. Very fine grained pyrite occurs disseminated throughout (weak). Ca patches and bands are concordant to banding in general. very thin Ca filled fractures occur at 5 deg to CA. Crinoid stem fragments are weakly deformed.
						FR	5															
						VN	65	90														
						BD	55															67.40-77.15 m: Light to dark grey strongly banded limestone. Bands are distinguished by light grey more gritty looking limestone banded with medium and dark grey micritic limestone. The gritty bands contain crinoid stem fragments. Banded in some areas is tightly convoluted (soft sediment deformation?) particularly at 73.60-74.50 m. Only rare very thin Ca veinlets cut the unit at 65 deg to CA. These veinlets cut the deformation. The lower contact with the volcaniclastic is gradual with the addition of sericite bands occurring in the bottom 50 cm.
						VN	65	35														

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
77.15	88.24	11.09	VOL	ALT	FO	FO	55			ms							s					Light green strongly foliated sericite altered volcaniclastic with strong concentration of pyrrhotite occurring as small 1-22 mm patches scattered throughout the non-sericite altered bands. The bands within are not perfect, rather they feather in and out. Bright emerald green fuchsite occurs as small 1-2 mm specks within the sericite - weak to trace overall. The foliation occurs at 55 deg to CA most often but slight variation occurs from 50-65 deg to CA. Pyrrhotite veinlets cut the foliation at 40 to CA and 180 deg to FO. The fractured surfaces are soft and have a talc-like coating on them.
						VN	40	180							m							86.26-88.24 m: Begin to get concentrated disseminated pyrite zones - moderate overall.
88.24	181.90	93.66	DOL	MX	BN	BD	60								l	f	w					Medium grained dolomite with medium grained patchy bands of pyrite (~ 20% overall) and medium to coarse grained pyrrhotite that appears to cut the pyrite in some cases. The pyrrhotite occurs as more irregular patches. Arsenopyrite occurs as coarse to very coarse grained subhedral crystals and patches. Quartz occurs as patches within the dolomite.
																						88.24-102.50 m: Banding of sulphides is somewhat irregular and particularly patchy. The host rock is more medium grey crackled limestone. The bandin is variable from 30-60 deg to CA. Semi-massive zones of pyrite 10-20 cm occur. Qz patches are quite common (~5%).
															60							102.50-108.92 m: Semi-massive medium grained sub-anhedral pyrite with interstitial Qz +/- Ca. From 103.73 m the mineralization has a less semi-massive more heavily patchy banded texture.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BN	50								ms	f	w					108.92-160.54 m : Very coarse grained dolomite with thin 0.2-1 cm bands of pyrite +/- pyrrhotite +/- arsenopyrite. The pyrite is finer grained. Banding is variable but most commonly 50 deg to CA. At 118.23 m there is a cluster of very coarse grained pyrite (~ 2 cm in diameter). From 128.20-129.00 m there is an increase in the concentration of pyrrhotite to fair. Bright yellow-orange (school -bus orange) oxide power coats some of the fractured surfaces.
						CN	10															Within the unit zones of 5-15 cm ling semi-massive pyrite occur although infrequently. The pyrite in these zones is sometimes very coarse grained.
																						Medium grey banded limestone with varying degree of marbleization from weak to strong. Banding is variable and sometimes indistinguishable but commonly occurs at 40 deg to CA.
						BD	60								f	w	t					160.54-181.90 m: Decrease in the concentration of pyrite and pyrrhotite, with a slight increase in the concentration of arsenopyrite. Quartz appears to cut the pyrite bands (a photo was taken). The banding is much more faint at 60 deg to CA. No veins occur cutting the unit.
																						At 181.30 m: fractures begin to have an orange red alteration coating on them.
																						At 181.70 m: blood red hematite alteration occurs.
181.90	194.15	12.25	LST	ALT	BN	BD	40						MBL	m								Medium grey banded limestone with varying degree of marbleization, from weak to strong. Banding is variable and sometimes indistinguishable but commonly occurs at 40 deg to CA. Upper contact is sharp but undulating at ~10 deg to CA, also slightly rubbly.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	20															181.90-184.85 - poker chip fracturing. Banding occurs at 85 deg to CA. There is a gradual shallowing of the core axis until 186.60 m when banding becomes 40 deg then by 188 m it is 20 deg to CA. In this area the core is moderately to strongly marbleized.
													MBL	s								189.70-194.15 m - strongly marbleized limestone. In some cases completely recrystallized to white/light grey marble. Lower contact is gradual over 15 cm.
						CN	10															The lower contact is sharp but undulates at roughly 10 deg to CA with a slight rubble zone after it.
194.15	227.08	32.93	LEP	ALT	FO	FO	40					w	SID	w	t							Medium grey leopard printed volcaniclastic with calcite bands occurring throughout. The foliation runs at roughly 40 deg to CA. The white Ca bands 0.3-1 cm thick are concordant with foliation. The dark parts of the unit are rich in very fine grained biotite. Medium orange-red-brown gritty clay oxide i a few areas dark maroon-black siderite fragments occur. Yellow mica flakes also coat some areas.
										f												202.13-205.23 m: Wavy green-grey (sericite) bands cut the limestone at between 10-30 deg to CA. A very fine flow texture exists within these bands.
						FO	45			f												210.02-210.88 m: Medium grey with a brown green tint sericite altered zone. Original textures have been destroyed. Foliation occurs at 45 deg to CA. The contact with the leopard rock is sharp but undulating around 20 deg to CA. There is a 2 mm wide zone of selective alteration of the edge.
						CN	20															
						VN	60															217.26 m: 3 mm calcite vein containing patchy pyrite.
						FO	45															219.15 m - Foliation runs at 45 degrees to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	40			w			MAG	m								225.60-227.08 m: The leopard pattern becomes less calcite rich, and contains moderate magnetite - quite fine grained. FO runs at 40 deg to CA. Calcite veins 0.2-0.6 cm cut at 60 deg to CA. Weak sericite selective alteration occurs - weak overall.
																						227.08 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-45

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.86	2.13	0.27	0.27	100	0.00	0	MS	SW	
2.13	3.35	1.22	0.29	24	0.00	0	MS	SW	
3.35	6.40	3.05	2.29	75	0.42	14	MS	SW	
6.40	9.45	3.05	2.19	72	0.24	8	W	MW	
9.45	12.50	3.05	2.79	91	0.59	19	MS	MW	
12.50	15.54	3.04	2.73	90	1.66	55	MS	SW	
15.54	18.59	3.05	2.54	83	1.29	42	W	MW	
18.59	21.64	3.05	2.96	97	1.35	44	MS	SW	
21.64	24.69	3.05	2.82	92	1.65	54	MS	SW	
24.69	27.74	3.05	3.05	100	3.05	100	MS	SW	
27.74	30.78	3.04	3.04	100	2.67	88	MS	SW	
30.78	33.83	3.05	2.99	98	2.64	87	MS	SW	
33.83	36.88	3.05	2.98	98	1.90	62	MS	SW	
36.88	38.40	1.52	1.52	100	2.57	169	MS	SW	
38.40	41.15	2.75	2.75	100	2.75	100	MS	FR	
41.15	43.89	2.74	2.51	92	1.99	73	MS	FR	
43.89	46.33	2.44	2.44	100	2.13	87	MS	FR	
46.33	48.77	2.44	2.44	100	1.71	70	MS	FR	
48.77	51.82	3.05	3.02	99	3.02	99	MS	FR	
51.82	54.86	3.04	3.04	100	2.72	89	MS	FR	
54.86	57.91	3.05	2.98	98	2.98	98	MS	FR	
57.91	60.96	3.05	3.05	100	2.57	84	MS	FR	
60.96	64.01	3.05	3.05	100	1.30	43	MS	SW	
64.01	67.06	3.05	3.05	100	1.85	61	MS	FR	
67.06	70.10	3.04	3.01	99	2.78	91	MS	FR	
70.10	73.15	3.05	3.05	100	3.05	100	MS	FR	
73.15	76.20	3.05	3.04	100	2.75	90	MS	FR	
76.20	79.25	3.05	3.02	99	2.70	89	MS	FR	
79.25	82.30	3.05	2.94	96	2.24	73	MS	FR	
82.30	82.91	0.61	0.61	100	0.20	33	MS	FR	
82.91	84.89	1.98	1.91	96	1.08	55	MS	FR	
84.89	85.80	0.91	0.82	90	0.25	27	MS	FR	
85.80	86.26	0.46	0.43	93	0.00	0	MS	FR	
86.26	87.02	0.76	0.76	100	0.23	30	MS	FR	
87.02	89.92	2.90	2.90	100	2.65	91	MS	FR	
89.92	90.83	0.91	0.91	100	0.91	100	MS	FR	
90.83	92.96	2.13	2.10	99	2.08	98	MS	FR	
92.96	96.01	3.05	3.04	100	2.97	97	MS	FR	
96.01	99.06	3.05	3.00	98	2.75	90	MS	FR	
99.06	102.11	3.05	3.05	100	2.95	97	MS	FR	
102.11	103.63	1.52	1.52	100	1.46	96	MS	FR	
103.63	106.68	3.05	3.05	100	2.94	96	MS	FR	
106.68	109.73	3.05	3.00	98	2.85	93	MS	FR	
109.73	112.78	3.05	3.05	100	2.90	95	MS	FR	
112.78	114.30	1.52	1.45	95	1.18	78	MS	FR	
114.30	117.35	3.05	3.05	100	2.75	90	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
117.35	120.40	3.05	3.05	100	2.99	98	MS	FR	
120.40	123.44	3.04	3.04	100	2.71	89	MS	FR	
123.44	126.49	3.05	3.05	100	2.77	91	MS	FR	
126.49	129.54	3.05	3.05	100	2.96	97	MS	FR	
129.54	132.59	3.05	3.05	100	2.85	93	MS	FR	
132.59	135.64	3.05	3.05	100	2.87	94	MS	FR	
135.64	138.68	3.04	3.04	100	2.82	93	MS	FR	
138.68	140.21	1.53	1.15	75	0.50	33	MS	FR	
140.21	143.26	3.05	2.91	95	2.90	95	MS	FR	
143.26	146.30	3.04	3.00	99	2.78	91	MS	FR	
146.30	149.35	3.05	3.05	100	3.05	100	MS	FR	
149.35	152.40	3.05	3.05	100	2.99	98	MS	FR	
152.40	155.45	3.05	3.05	100	3.05	100	MS	FR	
155.45	158.50	3.05	3.05	100	3.02	99	MS	FR	
158.50	161.54	3.04	3.04	100	3.04	100	MS	FR	
161.54	164.59	3.05	3.05	100	3.01	99	MS	FR	
164.59	167.64	3.05	2.96	97	2.96	97	MS	FR	
167.64	170.69	3.05	3.05	100	3.05	100	MS	FR	
170.69	173.74	3.05	3.05	100	3.00	98	MS	FR	
173.74	176.78	3.04	3.05	100	3.00	99	MS	FR	
176.78	179.83	3.05	3.02	99	3.02	99	MS	FR	
179.83	182.88	3.05	2.76	90	2.46	81	MS	FR	
182.88	185.93	3.05	3.05	100	0.32	10	MS	FR	
185.93	188.98	3.05	3.05	100	2.97	97	MS	FR	
188.98	191.26	2.28	2.21	97	2.07	91	MS	FR	
191.26	193.55	2.29	2.29	100	2.29	100	MS	FR	
193.55	196.60	3.05	2.91	95	2.43	80	MS	FR	
196.60	199.64	3.04	2.89	95	2.75	90	MS	FR	
199.64	201.17	1.53	1.53	100	1.50	98	MS	FR	
201.17	204.22	3.05	3.05	100	3.05	100	MS	FR	
204.22	206.04	1.82	1.82	100	1.65	91	MS	FR	
206.04	208.18	2.14	2.10	98	2.10	98	MS	FR	
208.18	209.70	1.52	1.52	100	1.11	73	MS	FR	
209.70	210.92	1.22	0.93	76	0.80	66	MS	FR	
210.92	213.36	2.44	2.44	100	2.34	96	MS	FR	
213.36	216.41	3.05	3.05	100	2.96	97	MS	FR	
216.41	219.46	3.05	3.05	100	3.09	101	MS	FR	
219.46	222.50	3.04	3.04	100	2.99	98	MS	FR	
222.50	225.55	3.05	3.05	100	3.05	100	MS	FR	
225.55	227.08	1.53	1.51	99	1.51	99	MS	FR	
	227.08	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-45

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
71.00	74.00	3.00	3.00	100	H884845	5.5	35	0.04	0.03	66	1.56	
74.00	77.15	3.15	3.15	100	H884846	5.5	35	0.02	0.07	66	0.68	
77.15	80.27	3.12	3.05	98	H884847	6.0	35	0.01	<0.01	16	0.63	
80.27	82.91	2.64	2.64	100	H884848	4.5	35	0.04	<0.01	15	0.37	
82.91	85.80	2.89	2.78	96	H884849	4.5	35	0.03	<0.01	9	0.45	
85.80	88.24	2.44	2.38	98	H884851	4.5	35	0.07	<0.01	94	4.26	
88.24	90.83	2.59	2.59	100	H884852	5.5	35	0.73	0.32	3100	273.00	
90.83	93.80	2.97	2.95	99	H884853	6.5	35	1.14	0.17	2020	349.00	
93.80	96.01	2.21	2.21	100	H884854	5.0	35	0.38	0.19	2030	190.50	
96.01	99.06	3.05	3.05	100	H884855	6.0	35	0.18	0.12	1050	121.50	
99.06	101.00	1.94	1.92	99	H884857	4.5	35	2.47	0.28	3500	862.00	
101.00	102.50	1.50	1.50	100	H884858	4.0	35	0.87	0.09	38600	326.00	
102.50	103.73	1.23	1.23	100	H884859	2.5	36	0.67	0.24	3770	645.00	
103.73	106.00	2.27	2.27	100	H884860	6.0	36	0.93	0.22	2880	637.00	
106.00	108.92	2.92	2.82	97	H884861	7.0	36	0.57	0.15	3520	481.00	
108.92	111.44	2.52	2.52	100	H884862	6.0	36	1.57	0.09	24200	248.00	
111.44	114.30	2.86	2.86	100	H884864	6.5	36	2.28	0.11	5980	136.50	
114.30	117.35	3.05	3.05	100	H884865	6.0	36	0.12	0.09	595	70.70	
117.35	120.40	3.05	3.05	100	H884866	6.0	36	0.13	0.10	613	163.50	
120.40	123.44	3.04	3.04	100	H884867	7.0	36	1.12	0.09	1140	148.50	
123.44	126.49	3.05	3.05	100	H884869	6.5	36	0.13	0.11	1110	169.50	
126.49	129.54	3.05	3.05	100	H884870	6.5	36	0.39	0.15	16500	54.60	
129.54	132.59	3.05	3.05	100	H884871	6.0	36	0.21	0.14	4890	35.80	
132.59	135.64	3.05	3.05	100	H884872	6.0	36	0.14	0.13	1200	91.40	
135.64	138.68	3.04	3.04	100	H884873	6.5	36	0.21	0.11	1020	104.00	
138.68	140.21	1.53	1.05	69	H884874	2.0	36	0.13	0.07	835	40.70	
140.21	143.26	3.05	2.87	94	H884875	6.0	36	0.18	0.19	1440	136.00	
143.26	146.30	3.04	3.00	99	H884876	6.5	36	0.12	0.12	1280	169.00	
146.30	149.35	3.05	3.05	100	H884877	6.0	36	0.13	0.10	3080	82.40	
149.35	152.40	3.05	3.05	100	H884878	7.0	36	0.08	0.18	1280	242.00	
152.40	155.45	3.05	3.05	100	H884879	6.0	36	0.07	0.21	1050	505.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
155.45	158.50	3.05	3.05	100	H884880	6.5	36	0.65	0.13	19200	161.00	
158.50	160.50	2.00	2.00	100	H884881	5.0	36	0.59	0.36	12300	232.00	
160.50	163.00	2.50	2.50	100	H884882	5.0	36	0.10	2.32	2400	119.50	
163.00	166.00	3.00	3.00	100	H884883	6.0	36	0.08	5.34	3370	99.40	
166.00	169.00	3.00	2.90	97	H884884	6.0	36	0.43	1.22	24700	158.50	
169.00	172.00	3.00	3.00	100	H884887	6.0	36	0.38	0.42	13600	196.50	
172.00	175.00	3.00	3.00	100	H884888	6.5	36	0.20	0.09	12900	57.10	
175.00	178.00	3.00	2.98	99	H884889	6.0	36	0.29	0.10	10600	45.00	
178.00	180.00	2.00	1.96	98	H884891	4.0	36	1.42	0.12	11800	46.50	
180.00	181.90	1.90	1.90	100	H884892	3.5	36	0.75	1.18	1800	163.00	
181.90	184.85	2.95	2.85	97	H884893	4.0	36	0.01	0.08	245	1.47	
184.85	187.49	2.64	2.60	98	H884894	5.0	36	<0.01	0.01	25	0.38	
82.91	85.80	2.89	2.78	96	H884850	2.0	35	0.07	<0.01	8	0.34	Duplicate
-	-	-			H884856	0.3	35	5.55	0.18	49300	470.00	Standard R-3
-	-	-			H884863	0.3	36	0.50	0.83	5460	89.40	Standard R-1
-	-	-			H884868	4.0	36	0.01	0.01	<5	0.48	Blank
166.00	169.00	3.00	2.90	97	H884885	3.0	36	0.28	1.79	18800	175.50	Duplicate
-	-	-			H884886	4.0	36	<0.01	0.12	28	0.82	Blank
-	-	-			H884890	0.3	36	1.60	1.75	27200	324.00	Standard R-2

DENSITY LOG

HOLE: Rau-09-45

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
50.38	LST			14.8	4.2	585.6	380.6	2.86	2.86
58.15	LST			14.7	4.2	582.4	379.6	2.86	2.87
65.03	LST			14.7	4.2	562.5	357.2	2.76	2.74
77.20	VOL			14.4	4.2	580.2	377.9	2.91	2.87
81.96	VOL			14.6	4.2	616.2	411.1	3.05	3.00
91.34	DOL	MX		14.5	4.2	782.3	580.4	3.89	3.87
94.91	DOL	MX		14.7	4.2	866.9	664.0	4.26	4.27
99.65	DOL	MX		14.8	4.2	734.9	527.4	3.58	3.54
132.86	DOL	MX		14.4	4.2	596.0	393.2	2.99	2.94

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-45

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
2.00	LST		0.32	
3.00	LST		0.02	
4.00	LST		0.06	
5.00	LST		0.18	
6.00	LST		0.02	
7.00	LST		0.22	
8.00	LST		0.06	
9.00	LST		0.02	
10.00	LST		0.02	
11.00	LST		0.02	
12.00	LST		0.20	
13.00	LST		0.18	
14.00	LST		0.10	
15.00	LST		0.06	
16.00	LST		0.12	
17.00	LST		0.22	
18.00	LST		0.06	
19.00	LST		0.04	
20.00	LST		0.20	
21.00	LST		0.12	
22.00	LST		0.22	
23.00	LST		0.04	
24.00	LST		0.32	
25.00	LST		0.02	
26.00	LST		0.06	
27.00	LST		0.04	
28.00	LST		0.02	
29.00	LST		0.08	
30.00	LST		0.04	
31.00	LST		0.08	
32.00	LST		0.10	
33.00	LST		0.02	
34.00	LST		0.06	
35.00	LST		0.06	
36.00	LST		0.12	
37.00	LST		0.04	
38.00	LST		0.02	
39.00	LST		0.10	
40.00	LST		0.04	
41.00	LST		0.06	
42.00	LST		0.38	
43.00	LST		0.08	
44.00	LST		0.08	
45.00	LST		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
46.00	LST		0.04	
47.00	LST		0.04	
48.00	LST		0.06	
49.00	LST		0.02	
50.00	LST		0.04	
51.00	LST		0.02	
52.00	LST		0.06	
53.00	LST		0.12	
54.00	LST		0.10	
55.00	LST		0.12	
56.00	LST		0.24	
57.00	LST		0.06	
58.00	LST		0.08	
59.00	LST		0.06	
60.00	LST		0.06	
61.00	LST		0.18	
62.00	LST		0.10	
63.00	LST		0.88	
64.00	LST		0.08	
65.00	LST		0.06	
66.00	LST		0.26	
67.00	LST		0.36	
68.00	LST		0.24	
69.00	LST		0.08	
70.00	LST		0.61	
71.00	LST		0.14	
72.00	LST		0.12	
73.00	LST		0.59	
74.00	LST		0.45	
75.00	LST		0.32	
76.00	LST		0.20	
77.00	LST		0.36	
78.00	DOL	MX	2.09	
79.00	DOL	MX	2.64	
80.00	DOL	MX	1.16	
81.00	DOL	MX	1.16	
82.00	DOL	MX	3.85	
83.00	DOL	MX	0.75	
84.00	DOL	MX	0.69	
85.00	DOL	MX	6.65	
86.00	DOL	MX	0.67	
87.00	DOL	MX	0.55	
88.00	DOL	MX	0.51	
89.00	DOL	MX	0.30	
90.00	DOL	MX	1.06	
91.00	DOL	MX	0.14	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
92.00	DOL	MX	1.37	
93.00	DOL	MX	0.08	
94.00	DOL	MX	0.96	
95.00	DOL	MX	0.32	
96.00	DOL	MX	0.30	
97.00	DOL	MX	0.84	
98.00	DOL	MX	0.73	
99.00	DOL	MX	0.57	
100.00	DOL	MX	0.61	
101.00	DOL	MX	0.26	
102.00	DOL	MX	0.49	
103.00	DOL	MX	2.02	
104.00	DOL	MX	0.38	
105.00	DOL	MX	0.14	
106.00	DOL	MX	0.28	
107.00	DOL	MX	0.90	
108.00	DOL	MX	0.88	
109.00	DOL	MX	0.53	
110.00	DOL	MX	0.18	
111.00	DOL	MX	0.18	
112.00	DOL	MX	0.22	
113.00	DOL	MX	0.34	
114.00	DOL	MX	2.99	
115.00	DOL	MX	0.04	
116.00	DOL	MX	0.45	
117.00	DOL	MX	0.28	
118.00	DOL	MX	0.49	
119.00	DOL	MX	0.24	
120.00	DOL	MX	1.29	
121.00	DOL	MX	0.61	
122.00	DOL	MX	0.61	
123.00	DOL	MX	0.92	
124.00	DOL	MX	0.30	
125.00	DOL	MX	1.04	
126.00	DOL	MX	2.13	
127.00	DOL	MX	0.63	
128.00	DOL	MX	0.47	
129.00	DOL	MX	17.90	
130.00	DOL	MX	1.76	
131.00	DOL	MX	3.42	
132.00	DOL	MX	2.52	
133.00	DOL	MX	0.92	
134.00	DOL	MX	1.98	
135.00	DOL	MX	0.30	
136.00	DOL	MX	0.57	
137.00	DOL	MX	0.67	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
138.00	DOL	MX	0.61	
139.00	DOL	MX	0.43	
140.00	DOL	MX	0.26	
141.00	DOL	MX	0.28	
142.00	DOL	MX	0.24	
143.00	DOL	MX	0.28	
144.00	DOL	MX	0.36	
145.00	DOL	MX	0.38	
146.00	DOL	MX	0.45	
147.00	DOL	MX	0.32	
148.00	DOL	MX	0.30	
149.00	DOL	MX	0.47	
150.00	DOL	MX	0.26	
151.00	DOL	MX	0.51	
152.00	DOL	MX	0.16	
153.00	DOL	MX	51.90	
154.00	DOL	MX	0.28	
155.00	DOL	MX	0.36	
156.00	DOL	MX	0.34	
157.00	DOL	MX	0.24	
158.00	DOL	MX	1.55	
159.00	DOL	MX	0.79	
160.00	DOL	MX	0.16	
161.00	DOL	MX	0.24	
162.00	DOL	MX	0.20	
163.00	DOL	MX	0.22	
164.00	DOL	MX	3.42	
165.00	DOL	MX	0.34	
166.00	DOL	MX	1.98	
167.00	DOL	MX	0.69	
168.00	DOL	MX	2.97	
169.00	DOL	MX	0.36	
170.00	DOL	MX	3.91	
171.00	DOL	MX	2.07	
172.00	DOL	MX	0.61	
173.00	DOL	MX	0.65	
174.00	DOL	MX	2.25	
175.00	DOL	MX	0.84	
176.00	DOL	MX	1.49	
177.00	DOL	MX	1.51	
178.00	DOL	MX	2.11	
179.00	DOL	MX	1.12	
180.00	DOL	MX	0.63	
181.00	DOL	MX	0.69	
182.00	LST		1.18	
183.00	LST		0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
184.00	LST		0.02	
185.00	LST		0.06	
186.00	LST		0.04	
187.00	LST		0.08	
188.00	LST		0.10	
189.00	LST		0.51	
190.00	LST		0.08	
191.00	LST		0.24	
192.00	LST		0.24	
193.00	LST		0.10	
194.00	LST		2.17	
195.00	LEP		1.23	
196.00	LEP		0.41	
197.00	LEP		0.45	
198.00	LEP		0.63	
199.00	LEP		0.86	
200.00	LEP		1.57	
201.00	LEP		1.04	
202.00	LEP		0.57	
203.00	LEP		0.45	
204.00	LEP		0.51	
205.00	LEP		0.38	
206.00	LEP		0.59	
207.00	LEP		0.55	
208.00	LEP		0.71	
209.00	LEP		0.73	
210.00	LEP		0.53	
211.00	LEP		1.33	
212.00	LEP		1.88	
213.00	LEP		0.69	
214.00	LEP		0.43	
215.00	LEP		0.51	
216.00	LEP		4.89	
217.00	LEP		0.75	
218.00	LEP		0.67	
219.00	LEP		0.61	
220.00	LEP		0.55	
221.00	LEP		1.27	
222.00	LEP		2.09	
223.00	LEP		38.60	
224.00	LEP		67.90	
225.00	LEP		14.70	
226.00	LEP		321.00	
227.00	LEP		26.40	

BOX LOG

HOLE: Rau-09-45

BOX	FROM (m)	TO (m)
1	1.86	8.75
2	8.75	14.53
3	14.53	20.24
4	20.24	25.86
5	25.86	31.35
6	31.35	37.10
7	37.10	42.22
8	42.22	47.89
9	47.89	53.60
10	53.60	59.37
11	59.37	64.67
12	64.67	70.33
13	70.33	76.08
14	76.08	81.81
15	81.81	87.02
16	87.02	92.70
17	92.70	98.46
18	98.46	104.10
19	104.10	109.98
20	109.98	115.58
21	115.58	121.06
22	121.06	126.80
23	126.80	132.59
24	132.59	138.43
25	138.43	144.27
26	144.27	149.92
27	149.92	155.62
28	155.62	161.38
29	161.38	167.25
30	167.25	172.76
31	172.76	178.33
32	178.33	184.17
33	184.17	189.75
34	189.75	195.52
35	195.52	201.17

BOX	FROM (m)	TO (m)
36	201.17	206.70
37	206.70	208.18
38	208.18	213.68
39	213.68	219.46
40	219.46	225.06
41	225.06	227.08
	227.08	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 10+170W

HOLE: Rau-09-46
CLAIM: Rau 98f

Easting	Northing	Elev.	Depth (m)
528439	7119227	1300	148.74

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 9.14 (m) out

Drilling dates: August 4 - 8, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.80	3.8	OVB	
3.80	14.63	10.83	DOL	Altered
14.63	41.44	26.81	OX	Rubbly
41.44	72.84	31.4	OX	Clay rich
72.84	77.12	4.28	LEP	Altered
77.12	111.95	34.83	DOL	Mineralized
111.95	136.14	24.19	LST	Altered
136.14	148.74	12.6	LEP	Volcaniclastic

SAMPLES

Numbers: H884812-H884844, H884895-H884926
Batches 34, 35, 37
Total: 65
Date sent:
Certificate: V09086498, V09089512, V09087328

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-46

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.80	3.80	OVB																			
3.80	14.63	10.83	DOL	ALT	CR							ms										Coarse grained dolomite with strong crackle brecciation and moderately-strongly clay oxidation alteration. The entire interval, particularly the clay zones, fizz with acid.
																						8.53-10.06 m: medium brown clay - very poor recovery. (COLOUR: 10YR 4/3 - brown)
																						13.11 -14.63 m: Medium brown clay with 20 cm fragment of strongly altered dolomite. (COLOUR: 10YR 4/3 brown).
14.63	41.44	26.81	OX	RBL																		Intermixed strongly oxidized rubble/clay and moderately rubbly, slightly altered medium grey limestone 50% OX, 50 % LMST.
																						14.63-16.15 m: Poor recovery zone. 10 cm limestone fragment, 10 cm limonite fragment, limonite rubble and quartz rubble
																						16.15-18.14 m: Dark-red-brown limonite rubble (COLOUR: 5YR 2.5/1 - dark reddish brown).
																						18.14-20.73 m: Medium to dark orange-red brown oxide gritty rubbly with moderate yellow mica flakes scattered throughout. The bottom 30 cm had 5 % rounded quartz fragments up to 1 cm in diameter. (COLOUR - 7.5 YR 3/4 - dark brown).
																						20.73-22.25 m: Yellow-orange-brown oxide clay with moderate-strong yellow mica flakes and some green grey patches. Fine grained-pebble quartz occurs. Recovery very poor! (COLOUR: 10YR 5/8 - yellowish brown).
																						22.25-23.77 m: no recovery.
																						23.77-25.30 m: Quartz rubble with minor oxide fragments. Poor recovery 85% quartz.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
													Hem	f								25.30-37.49 m: Intermixed slightly to strongly altered grey solution collapse brecciated limestone. Entire zone is quite fractured/rubbly. Red hematite alteration coats many of the fractured surfaces. The most pure limestone (with visible fluid collapse brecciation) fizzes strongly with acid, while the rest fizzes fairly to not at all. Yellow mica flakes are scattered throughout but are more concentrated in zones of alteration.
																						37.49-40.54 m: Quartz rubble zone with 15 cm of dark brown gritty clay and a 5 cm fragment of siderite.
																						40.54-41.44 m: Dark brown gritty limonite with yellow mica flakes coating larger rubble fragments.
41.44	72.84	31.40	OX	CLY																		Medium orange-red-brown gritty clay oxide. In a few areas dark maroon-black siderite fragments occur. Yellow mica flakes coat some areas.
																						51.21-53.75 m: Siderite rubble/fracture zone. Competent core with some vuggy surfaces.
																						64.92-66.45 m: poor recovery.
																						66.45-69.49 m: NO recovery.
																						71.02-72.54 m: NO recovery.
72.84	77.12	4.28	LEP	ALT	FO	FO	60															Mixture of marble bands and leopard print volcaniclastic all of which have been moderately decalcified. The unit looks pure but barely fizzes with acid therefore the reasoning for it being dolomitized.
																						73.06-74.70 m: Leopard print decalcified volcaniclastic with FO at 60 deg to CA.
																						74.70-74.88 m: White dolomitized marble with slight yellow/orange alteration tint.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	75															74.88-76.62 m: Dark grey leopard unit with inter-patches of white dolomitized marble. Within the marble banding occurs at 75 deg to CA. Within the limestone the banding is slightly variable. Lower contact with the dolomite is very sharp at 60° to CA but occurs in the opposite quadrant to the FO in the limestone.
						FO	60															
						FO	55															74.50m: The FO in the limestone occurs at 55 deg to CA.
						CN	40															74.65-74.80 m: Marble horizon. Upper and lower contacts sharp at 40 deg to CA.
						FO	60															75.59 m the FO occurs at 60 deg to CA.
						FO	75															76.50 m: Banding of dark grey silty beds in the marble occurs at 75 deg to CA.
77.12	111.95	34.83	DOL	MX											f							Coarse grained dolomite with patches and bands of fine to medium grained eu-subhedral pyrite. Associated with the pyrite bands are purple/brown very fine grained (silty?) wavy bands. The dolomite appears to potentially be vein controlled in part.
						BD	65															78.20-78.60 m: Banded dolomitized limestone at 65 deg to CA. Upper and lower contacts are bound by a band of coarse grained subhedral pyrite. The lower contact is at 65 deg to CA, and occurs at 300 deg to bedding. Swirly 0.5-1.5 cm medium purple/grey silt horizons occurs within the dolomite. In some areas they are strongly structurally deformed. Their angles vary within the core as follows:
						CN	65	300														
																						80.65 m: FO is 50 deg to CA.
																						81.42 m: FO is 75 deg to CA.
																						86.60 m: FO is 60 deg to CA.
																						92.27 m: FO is 90 deg to CA.
																						82.69 m: There is a gradual darkening of the dolomite with the addition of dark grey interlayers. Some of these interlayers contain crinoid stem fragments.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															w							84.35 m:-98.90 m: The coarse grained dolomitization becomes less intense. More intermixed dolomitized limestone and silty layers occur with fine to medium grained dolomite patches The concentration of pyrite has decreased to weak and mainly occurs as irregular fine grained patches and disseminations and rare bands.
						BD	60															93.83 m: Py bands occur at 60° to CA.
																						97.95 m: 10 cm zone of crackle brecciation.
						VN	15															94.20-94.33 m: Coarse grained while dolomite vein cuts at 15° to CA.
						VN	30															94.58-94.74 m: Coarse grained white dolomite vein cuts at 30° to CA.
						VN	10															95.98-96.38 Coarse grained while dolomite vein cut at 10° to CA.
																						98.90-111.95 m: Coarse grained white dolomite. Pyrite occurs as fine grained patches and bands, fair overall.
						CN	70															102.44-103.14 m: Interval of semi-massive fine to medium grained pyrite. The lower contact is sharp at 70 deg to CA.
																						103.35-104.00 m: Very coarse grained quartz veins cut the dolomite at 20 deg to CA.
																						Purple-grey silty horizons cut the dolomite at 70 deg to CA. They appear to be easily deformed, particularly from 110.95-111.55 m.
111.95	136.14	24.19	LST	ALT	BN	BD	60		ms						w	w						Medium to dark grey banded dolomitized weakly fossiliferous limestone. Bands include dark grey very fine grained grey limestone and medium grey medium grained limestone. Bands occur at 60 deg to CA. A faint structural fabric occurs at 55 deg to CA. Thin 1-3 mm Ca filled fractures (tension gashes(?)) occur at 35° to CA. Pyrite and pyrrhotite occur as fine grained disseminations and small patches throughout.
				FOS	FO	FO	55	270														
						FR	35															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						117.83-119.07 m: Coarse grained dolomite stockwork veins brecciate the limestone. This zones is quite fractured with orange brown alteration stains on the fractured surfaces.
			DOL	MX		BN	60								f	t						120.85-126.25 m: Coarse grained dolomite which has a pale pink/orange alteration tint. Bands of pyrite occur at 60 deg to CA with a fair concentration overall. Trace patchy pyrrhotite occurs scattered as small patches. Upper and lower contacts are not sharp but the limestone below appears lighter (possible more dolomitized).
						BN	50															126.25-135.22 m: Medium grey dolomitized limestone with crinoid stem fragments common (including star crinoids) which are quite broken up.
																						Dark grey bands occur at 50 deg to CA. Pyrite and pyrrhotite occur as fine grained disseminations and small patches. Minor purple/grey silty thin horizons occur.
																						133.55 m: Black slightly graphitic later - 20 cm thick caps 60 cm of white marble. Within the graphitic layer. There is a coarse grained vuggy calcite vein.
																						135.22-136.14 m: There is a transition into mixed dolomitized limestone and the leopard print rock.
136.14	148.74	12.60	LEP			FO	50															Medium grey-medium 'grained' leopard print unit. A very faint structural overprint occurs at 50 deg to CA.
						VN	50															0.2-1 cm calcite veins cut the unit at 50 deg to CA.
																						145.82-147.83 m: Dark grey interval with wispy layers of dark blue/grey silty material.
																						148.74 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-46

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.80	3.96	0.16	0.16	100	0.00	0	W	HW	
3.96	5.49	1.53	0.06	4	0.00	0	W	HW	
5.49	7.01	1.52	0.08	5	0.00	0	W	HW	
7.01	8.53	1.52	0.28	18	0.10	7	W	HW	
8.53	10.06	1.53	0.23	15	0.00	0	W	HW	
10.06	11.58	1.52	1.08	71	0.27	18	W	HW	
11.58	13.11	1.53	0.63	41	0.25	16	W	HW	
13.11	14.63	1.52	1.20	79	0.00	0	EW	EW	
14.63	16.15	1.52	0.21	14	0.00	0	EW	EW	
16.15	17.68	1.53	0.28	18	0.00	0	EW	EW	
17.68	19.20	1.52	1.04	68	0.00	0	EW	EW	
19.20	20.73	1.53	1.53	100	0.00	0	EW	EW	
20.73	22.25	1.52	0.08	5	0.00	0	EW	EW	
22.25	23.77	1.52	0.00	0	0.00	0	EW	EW	
23.77	25.30	1.53	0.17	11	0.00	0	EW	EW	
25.30	26.82	1.52	1.15	76	0.23	15	EW	EW	
26.82	28.35	1.53	0.24	16	0.00	0	EW	EW	
28.35	29.87	1.52	1.10	72	0.00	0	EW	EW	
29.87	31.39	1.52	1.23	81	0.25	16	EW	EW	
31.39	32.92	1.53	1.27	83	0.13	8	EW	EW	
32.92	34.44	1.52	0.65	43	0.00	0	EW	EW	
34.44	35.97	1.53	1.47	96	0.16	10	EW	EW	
35.97	37.49	1.52	0.14	9	0.00	0	EW	EW	
37.49	39.01	1.52	0.28	18	0.00	0	EW	EW	
39.01	40.54	1.53	0.21	14	0.00	0	MS	MW	
40.54	42.06	1.52	0.92	61	0.00	0	EW	EW	
42.06	43.59	1.53	1.17	76	0.00	0	EW	EW	
43.59	45.11	1.52	0.71	47	0.00	0	EW	EW	
45.11	46.63	1.52	0.40	26	0.00	0	EW	EW	
46.63	48.16	1.53	0.10	7	0.00	0	EW	EW	
48.16	49.68	1.52	0.25	16	0.00	0	EW	EW	
49.68	51.21	1.53	0.85	56	0.10	7	EW	EW	
51.21	54.25	3.04	2.28	75	0.81	27	EW	EW	
54.25	55.78	1.53	1.34	88	0.30	20	EW	EW	
55.78	57.30	1.52	1.35	89	0.49	32	EW	EW	
57.30	58.83	1.53	1.28	84	0.22	14	EW	EW	
58.83	60.35	1.52	1.07	70	0.31	20	EW	EW	
60.35	61.87	1.52	0.68	45	0.29	19	EW	EW	
61.87	63.40	1.53	1.26	82	0.61	40	EW	EW	
63.40	64.92	1.52	0.72	47	0.15	10	EW	EW	
64.92	66.45	1.53	0.08	5	0.00	0	EW	EW	
66.45	67.97	1.52	0.00	0	0.00	0	EW	EW	
67.97	69.49	1.52	0.00	0	0.00	0	EW	EW	
69.49	71.02	1.53	0.28	18	0.00	0	EW	EW	
71.02	72.54	1.52	0.00	0	0.00	0	EW	EW	
72.54	74.07	1.53	1.49	97	0.77	50	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
74.07	75.59	1.52	1.52	100	1.26	83	MS	FR	
75.59	78.64	3.05	3.05	100	2.51	82	MS	FR	
78.64	81.69	3.05	3.05	100	2.82	92	MS	FR	
81.69	84.73	3.04	3.04	100	2.63	87	MS	FR	
84.73	87.78	3.05	3.05	100	3.03	99	MS	FR	
87.78	90.83	3.05	3.00	98	2.85	93	MS	FR	
90.83	93.88	3.05	3.05	100	2.67	88	MS	FR	
93.88	96.93	3.05	3.05	100	2.70	89	MS	FR	
96.93	99.97	3.04	2.82	93	2.45	81	MS	FR	
99.97	103.02	3.05	3.05	100	3.05	100	MS	FR	
103.02	106.07	3.05	3.05	100	3.05	100	MS	FR	
106.07	109.12	3.05	3.05	100	3.05	100	MS	FR	
109.12	112.17	3.05	3.05	100	2.96	97	MS	FR	
112.17	115.21	3.04	2.95	97	2.90	95	MS	FR	
115.21	118.26	3.05	3.00	98	2.41	79	MS	FR	
118.26	121.31	3.05	3.05	100	2.50	82	MS	FR	
121.31	124.36	3.05	2.85	93	2.63	86	MS	FR	
124.36	127.41	3.05	3.05	100	2.77	91	MS	FR	
127.41	130.45	3.04	3.04	100	2.95	97	MS	FR	
130.45	133.50	3.05	3.05	100	2.74	90	MS	FR	
133.50	136.55	3.05	3.05	100	2.65	87	MS	FR	
136.55	139.60	3.05	3.05	100	2.57	84	MS	FR	
139.60	142.65	3.05	3.05	100	2.72	89	MS	FR	
142.65	145.69	3.04	2.95	97	2.87	94	MS	FR	
145.69	148.74	3.05	3.05	100	2.50	82	MS	FR	
	148.74	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-46

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.80	5.49	1.69	0.35	21	H884812	1.0	34	0.10	1.26	338	13.90	
5.49	7.01	1.52	0.11	7	H884814	0.5	34	0.08	1.66	649	13.25	
7.01	8.53	1.52	0.36	24	H884815	0.5	34	0.17	3.90	2870	50.60	
8.53	10.06	1.53	0.29	19	H884816	0.5	34	0.14	4.77	1140	61.20	
10.06	13.11	3.05	1.73	57	H884818	6.0	34	0.10	0.25	1020	33.50	
13.11	14.63	1.52	1.40	92	H884819	4.5	34	0.29	0.27	3260	79.10	
14.63	16.15	1.52	0.24	16	H884820	1.0	34	3.67	0.33	>10000	296.00	
16.15	18.14	1.99	0.75	38	H884821	2.0	34	9.39	0.19	>10000	794.00	
18.14	20.73	2.59	1.97	76	H884823	7.0	35	10.55	0.54	23200	684.00	
20.73	22.25	1.52	0.10	7	H884824	0.5	35	2.76	0.87	5140	765.00	
23.77	25.30	1.53	0.10	7	H884825	1.0	35	0.24	11.45	2980	142.00	
25.30	28.35	3.05	1.78	58	H884826	6.5	35	0.38	0.14	8840	62.00	
28.35	31.39	3.04	2.57	85	H884827	9.0	35	0.21	0.42	3610	23.30	
31.39	34.44	3.05	2.08	68	H884829	7.0	35	0.10	0.12	2490	31.50	
34.44	35.97	1.53	1.48	97	H884830	5.5	35	0.28	0.18	3480	12.70	
35.97	37.49	1.52	0.12	8	H884831	0.5	35	0.22	0.10	4590	10.70	
37.49	40.54	3.05	0.60	20	H884832	1.5	35	0.08	0.05	1620	8.51	
40.54	41.44	0.90	0.63	70	H884833	1.5	35	0.51	0.16	10400	959.00	
41.44	43.59	2.15	1.70	79	H884834	3.5	35	12.75	0.27	73400	388.00	
43.59	46.63	3.04	1.12	37	H884835	3.0	35	2.86	0.22	29900	463.00	
46.63	48.16	1.53	0.10	7	H884836	0.5	35	10.05	0.37	46800	1650.00	
48.16	49.68	1.52	0.20	13	H884837	1.0	35	3.17	1.62	31900	503.00	
49.68	51.21	1.53	0.97	63	H884838	3.0	35	8.69	0.37	59500	354.00	
51.21	53.75	2.54	1.21	48	H884840	5.0	35	10.25	0.18	49200	1320.00	
53.75	55.78	2.03	1.76	87	H884841	7.0	35	33.50	0.44	30800	1940.00	
55.78	58.83	3.05	2.35	77	H884842	8.0	35	6.92	0.30	32900	1190.00	
58.83	61.87	3.04	1.57	52	H884844	4.0	35	12.95	0.38	28400	1250.00	
61.87	64.92	3.05	1.86	61	H884895	5.5	37	11.30	0.22	>10000	1330.00	
64.92	66.45	1.53	0.07	5	H884896	0.5	37	1.76	1.56	>10000	343.00	
69.49	71.02	1.53	0.25	16	H884897	0.5	37	1.96	7.06	>10000	403.00	
72.54	72.84	0.30	0.12	40	H884898	0.5	37	1.21	0.41	6840	157.50	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
72.84	74.88	2.04	2.04	100	H884899	7.0	37	0.02	0.20	156	2.00	
74.88	77.12	2.24	2.24	100	H884900	6.5	37	0.02	0.07	54	0.60	
77.12	80.00	2.88	2.80	97	H884901	8.0	37	0.01	0.09	308	275.00	
80.00	83.00	3.00	3.01	100	H884902	9.0	37	0.04	0.19	297	260.00	
83.00	86.00	3.00	3.05	102	H884903	8.5	37	0.27	0.17	445	67.80	
86.00	89.00	3.00	2.99	100	H884904	9.0	37	0.33	0.09	2120	94.70	
89.00	92.00	3.00	2.95	98	H884906	8.5	37	0.63	0.16	2950	13.20	
92.00	95.00	3.00	2.08	69	H884908	9.0	37	0.17	0.13	4050	85.20	
95.00	96.93	1.93	1.92	99	H884909	5.0	37	0.02	0.07	311	54.40	
96.93	98.90	1.97	1.73	88	H884910	5.0	37	0.02	0.08	251	8.60	
98.90	100.86	1.96	1.93	98	H884911	6.0	37	<0.01	0.20	479	56.60	
100.86	102.44	1.58	1.58	100	H884912	6.0	37	0.11	0.16	1140	185.00	
102.44	103.14	0.70	0.68	97	H884913	3.0	37	0.25	0.23	3040	740.00	
103.14	106.07	2.93	2.91	99	H884915	8.5	37	0.01	0.06	100	46.90	
106.07	109.12	3.05	2.96	97	H884916	9.0	37	0.02	0.10	130	324.00	
109.12	111.95	2.83	2.75	97	H884918	8.0	37	0.09	0.14	143	416.00	
111.95	114.95	3.00	2.97	99	H884919	9.0	37	0.50	0.15	389	431.00	
114.95	117.83	2.88	2.88	100	H884920	8.5	37	0.46	0.37	157	312.00	
117.83	120.85	3.02	2.76	91	H884921	8.5	37	0.01	0.22	86	4.96	
120.85	123.45	2.60	2.30	88	H884922	7.0	37	0.02	1.86	857	66.90	
123.45	126.25	2.80	2.80	100	H884924	8.0	37	0.01	1.84	305	70.40	
126.25	129.00	2.75	2.75	100	H884925	8.5	37	0.02	0.47	157	80.40	
129.00	131.84	2.84	2.84	100	H884926	8.0	37	0.02	0.09	51	183.50	
-	-	-			H884813	0.3	34	5.40	0.21	>10000	442.00	Standard R-3
8.53	10.06	1.53	0.29	19	H884817	0.5	34	0.21	8.91	1650	52.40	Duplicate
-	-	-			H884822	3.5	34	0.05	0.02	83	2.18	Blank
-	-	-			H884828	0.3	35	0.47	0.90	6390	104.00	Standard R-1
-	-	-			H884839	4.0	35	0.06	0.01	125	1.00	Blank
-	-	-			H884843	4.0	35	0.13	0.01	171	8.33	Blank
-	-	-			H884905	0.3	37	0.59	0.79	5710	93.20	Standard R-1
-	-	-			H884907	4.0	37	<0.01	0.14	14	0.42	Blank
-	-	-			H884914	4.0	37	0.03	0.05	5	1.37	Blank

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
106.07	109.12	3.05	2.96	97	H884917	4.0	37	0.01	0.12	148	715.00	Duplicate
-	-	-			H884923	0.3	37	5.42	0.22	>10000	466.00	Standard R-3

DENSITY LOG

HOLE: Rau-09-46

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
102.80	DOL	MX		15.1	6.1	1354.9	988.9	3.05	3.70
106.10	DOL	MX		15.0	5.1	863.8	561.1	2.84	2.85
124.50	LST	ALT		14.9	5.1	859.8	562.4	2.85	2.89
128.75	LST	ALT		14.9	5.1	875.5	572.2	2.90	2.89
139.64	LEP			14.6	5.1	832.5	535.4	2.81	2.80
142.90	LEP			15.0	5.1	862.1	558.5	2.84	2.84
148.54	LEP			14.6	5.1	857.5	558.6	2.90	2.87

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-46

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
4.00	DOL	ALT	0.00	
5.00	DOL	ALT	0.05	
6.00	DOL	ALT	0.00	
7.00	DOL	ALT	0.06	
8.00	DOL	ALT	0.31	
9.00	DOL	ALT	0.33	
10.00	DOL	ALT	0.20	
11.00	DOL	ALT	0.31	
12.00	DOL	ALT	0.30	
13.00	DOL	ALT	0.18	
14.00	DOL	ALT	0.23	
15.00	OX	RBL	0.10	
16.00	OX	RBL	0.47	
17.00	OX	RBL	0.40	
18.00	OX	RBL	0.26	
19.00	OX	RBL	0.47	
20.00	OX	RBL	0.45	
21.00	OX	RBL	0.33	
22.00	OX	RBL	0.28	
23.00	OX	RBL		no recovery
24.00	OX	RBL	0.58	
25.00	OX	RBL	0.55	
26.00	OX	RBL	0.26	
27.00	OX	RBL	0.30	
28.00	OX	RBL	0.42	
29.00	OX	RBL	0.13	
30.00	OX	RBL	0.11	
31.00	OX	RBL	0.08	
32.00	OX	RBL	0.23	
33.00	OX	RBL	0.10	
34.00	OX	RBL	0.05	
35.00	OX	RBL	0.16	
36.00	OX	RBL	1.27	
37.00	OX	RBL	0.45	
38.00	OX	RBL	0.35	
39.00	OX	RBL	0.03	
40.00	OX	RBL	0.08	
41.00	OX	RBL	0.25	
42.00	OX	CLY	0.21	
43.00	OX	CLY	0.42	
44.00	OX	CLY	0.63	
45.00	OX	CLY	0.38	
46.00	OX	CLY	0.18	
47.00	OX	CLY	0.13	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
48.00	OX	CLY	0.48	
49.00	OX	CLY	3.20	
50.00	OX	CLY	0.99	
51.00	OX	CLY	0.45	
52.00	OX	CLY	0.95	
53.00	OX	CLY	0.30	
54.00	OX	CLY	0.52	
55.00	OX	CLY	0.78	
56.00	OX	CLY	0.63	
57.00	OX	CLY	0.78	
58.00	OX	CLY	0.25	
59.00	OX	CLY	0.65	
60.00	OX	CLY	0.42	
61.00	OX	CLY	0.50	
62.00	OX	CLY	0.55	
63.00	OX	CLY	0.72	
64.00	OX	CLY	0.67	
65.00	OX	CLY	0.13	
66.00	OX	CLY		
67.00	OX	CLY		
68.00	OX	CLY		
69.00	OX	CLY		
70.00	OX	CLY	1.39	
71.00	OX	CLY	0.01	
72.00	OX	CLY	0.55	
73.00	LEP	ALT	1.05	
74.00	LEP	ALT	0.43	
75.00	LEP	ALT	0.67	
76.00	LEP	ALT	1.59	
77.00	LEP	ALT	0.25	
78.00	DOL	MX	0.33	
79.00	DOL	MX	0.33	
80.00	DOL	MX	0.50	
81.00	DOL	MX	0.75	
82.00	DOL	MX	0.43	
83.00	DOL	MX	0.57	
84.00	DOL	MX	0.48	
85.00	DOL	MX	0.43	
86.00	DOL	MX	0.68	
87.00	DOL	MX	1.32	
88.00	DOL	MX	0.97	
89.00	DOL	MX	0.73	
90.00	DOL	MX	3.02	
91.00	DOL	MX	1.81	
92.00	DOL	MX	0.92	
93.00	DOL	MX	1.49	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
94.00	DOL	MX	0.21	
95.00	DOL	MX	1.37	
96.00	DOL	MX	0.25	
97.00	DOL	MX	0.18	
98.00	DOL	MX	0.01	
99.00	DOL	MX	0.33	
100.00	DOL	MX	3.24	
101.00	DOL	MX	5.39	
102.00	DOL	MX	0.26	
103.00	DOL	MX	0.14	
104.00	DOL	MX	0.03	
105.00	DOL	MX	1.37	
106.00	DOL	MX	0.82	
107.00	DOL	MX	0.69	
108.00	DOL	MX	1.37	
109.00	DOL	MX	2.72	
110.00	DOL	MX	1.44	
111.00	DOL	MX	0.91	
112.00	LST	ALT	8.72	
113.00	LST	ALT	2.79	
114.00	LST	ALT	1.44	
115.00	LST	ALT	3.67	
116.00	LST	ALT	0.91	
117.00	LST	ALT	4.33	
118.00	LST	ALT	0.47	
119.00	LST	ALT	0.31	
120.00	LST	ALT	0.10	
121.00	LST	ALT	0.29	
122.00	LST	ALT	0.43	
123.00	LST	ALT	0.20	
124.00	LST	ALT	0.67	
125.00	LST	ALT	0.32	
126.00	LST	ALT	0.51	
127.00	LST	ALT	0.56	
128.00	LST	ALT	0.53	
129.00	LST	ALT	3.87	
130.00	LST	ALT	4.44	
131.00	LST	ALT	1.39	
132.00	LST	ALT	0.86	
133.00	LST	ALT	1.66	
134.00	LST	ALT	0.27	
135.00	LST	ALT	0.53	
136.00	LST	ALT	0.43	
137.00	LEP		0.53	
138.00	LEP		0.31	
139.00	LEP		0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
140.00	LEP		0.34	
141.00	LEP		0.36	
142.00	LEP		0.75	
143.00	LEP		0.42	
144.00	LEP		0.45	
145.00	LEP		0.45	
146.00	LEP		0.47	
147.00	LEP		0.67	
148.00	LEP		0.29	

BOX LOG

HOLE: Rau-09-46

BOX	FROM (m)	TO (m)
1	3.80	13.72
2	13.72	20.33
3	20.33	28.51
4	28.51	32.13
5	32.13	35.97
6	35.97	43.59
7	43.59	53.11
8	53.11	57.10
9	57.10	62.15
10	62.15	73.84
11	73.84	77.68
12	77.68	81.96
13	81.96	85.82
14	85.82	90.10
15	90.10	94.08
16	94.08	98.37
17	98.37	102.70
18	102.70	106.43
19	106.43	110.68
20	110.68	114.94
21	114.94	119.07
22	119.07	123.45
23	123.45	127.65
24	127.65	131.84
25	131.84	136.14
26	136.14	140.38
27	140.38	144.83
28	144.83	148.74
	148.74	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 9+895W

HOLE: Rau-09-47
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528558.7	7118964.4	1270	88.39

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-70	compass				

Core size: BTW
Casing depth: 38.10 (m) in

Drilling dates: August 7 - 11, 2009

Logged by: J. Lane

Target:

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.42	3.42	OVB	
3.42	34.28	30.86	OX	Clay
34.28	41.60	7.32	MBL	
41.60	88.39	46.79	OX	Rubbly

SAMPLES	
Numbers:	H884927-H884950, H885501-H885526
	Batches 37, 38, 39
Total:	50
Date sent:	
Certificate:	V09087328, V09088877, V09088876

COMMENTS

rod/casing stuck

GEOLOGY LOG

HOLE: Rau-09-47

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.42	3.42	OVB																			
3.42	34.28	30.86	OX	CLY								s	SID	m								Very rubbly siderite and limonite fragments with minor gritty clay fragments. Some areas have rubbly quartz fragments sub-angular, up to 1 cm in diameter. Colour varies from dark brown-almost black to medium brown, and medium yellow-orange brown.
																						3.42-15.54 m: Dark brown- almost black siderite and dark grey moderately siderite altered limestone The siderite is slightly vuggy on the outer surface Within the limestone crackle brecciation occurs. (COLOUR: 7.5 YR 2.5/2 - very dark brown).
																						15.54-16.92 m: Medium orange brown gritty oxide clay. (COLOUR 7.5 YR 4/6 - strong brown)
																						16.92-18.59 m: Yellow orange-brown altered volcaniclastic(?). Very fissile in parts. Does contain 15 cm section of red-orange-brown oxide.
																						18.49-28.96 m: Medium orange-red-brown to dark red-orange-brown oxide with significant siderite rubble ~ 70%.
															f							28.96-34.28 m: Weakly to strongly oxidized dolomitized limestone. The less altered forms contain blebs and subhedral crystals or pyrite up to 0.3 cm.
																						31.25-31.75 m: Least altered dolomitized limestone Contains veinlets at 35 deg to CA.
34.28	41.60	7.32	MBL		BN	BD	40															White marble with a few silty bands running at 40 deg to CA. From 36.00-36.38 m a 14 cm irregular vein (?) that is medium grey brown with possible flecks of siderite (?) within it. There appears to be an interval foliation at 50 deg to CA.
						FO	50															38.50-38.86 m: Medium brown oxidized, rubbly clay with taupe patches.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						39.00-40.23 m: Orange brown oxide clay with gritty fragments.
41.60	88.39	46.79	OX	RBL																		Very dark red/purple brown limonite rubble with coatings of medium to dark orange brown oxide clay (COLOUR 5YR 2.5/1 - black). Larger more competent fragments of limonite have vuggy surfaces. Slight colour variations exist between mustard yellow, to green brown to bright orange brown clay oxide coatings.
																						60.43-61.47 m: Orange-red very gritty oxide clay. The broken surfaces have a patchy appearance witl medium to dark red brown more limonitic oxide and quite bright medium orange-brown more clay like oxide.
																						61.47-63.04 m: Mixture of very dark brown-black limonite with yellow-orange-brown (mustard yellow) gritty clay. There appears to be a layered relationship between the two. The yellow clay becomes less abundant towards the bottom.
																						63.04-64.60 m: Dark brown limonite with some areas that have a green grey-brown tinge to them. Some broken surfaces show bright orange-red brown oxide clay pockets and horizons.
																						64.40-67.51 m: Mainly rubbly dark brown limonite with some small pockets of bright orange-brown oxide clay.
						BD	75															67.51-74.07 m: Medium to dark reddish-brown limonite rubble with medium brown oxide clay coatings and small pockets of bright yellow-orange clay. Banding occurs at 75 deg to CA.
																						74.68-78.79 m: Dark to very dark reddish brown-black limonite rubble with very occasional pockets o bright orange brown oxide.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						78.79-83.53 m: Dark red-brown limonite oxide with very vuggy bauxite (?) texture with red-orange-brown oxide coating on drilled surface. Fractures surface has a bi-modal appearance with limonite with orange brown oxide clay filling many of the voids.
																						83.53-88.39 m: Rubbly limonite oxide with not as much of a vuggy texture and more rubbly.
																						88.39 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-47

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.54	3.66	0.12	0.12	100	0.00	0	MS	HW	
3.66	4.27	0.61	0.18	30	0.00	0	MS	HW	
4.27	4.72	0.45	0.28	62	0.11	24	MS	HW	
4.72	5.03	0.31	0.31	100	0.00	0	MS	HW	
5.03	6.10	1.07	0.43	40	0.00	0	MS	HW	
6.10	6.40	0.30	0.25	83	0.00	0	MS	HW	
6.40	6.71	0.31	0.14	45	0.00	0	MS	HW	
6.71	7.32	0.61	0.29	48	0.21	34	MS	HW	
7.32	9.14	1.82	0.75	41	0.50	27	MS	HW	
9.14	10.06	0.92	0.51	55	0.12	13	MS	HW	
10.06	11.58	1.52	0.20	13	0.00	0	MS	HW	
11.58	12.19	0.61	0.24	39	0.00	0	MS	HW	
12.19	12.65	0.46	0.40	87	0.00	0	MS	HW	
12.65	13.11	0.46	0.31	67	0.00	0	MS	HW	
13.11	14.48	1.37	0.13	9	0.00	0	MS	HW	
14.48	15.54	1.06	0.40	38	0.17	16	MS	HW	
15.54	16.92	1.38	1.00	72	0.00	0	EW	EW	
16.92	18.59	1.67	0.81	49	0.11	7	EW	EW	
18.59	19.66	1.07	0.38	36	0.14	13	EW	EW	
19.66	20.88	1.22	0.21	17	0.00	0	EW	EW	
20.88	21.34	0.46	0.42	91	0.00	0	EW	EW	
21.34	22.40	1.06	1.06	100	0.13	12	EW	EW	
22.40	23.93	1.53	1.40	92	0.00	0	EW	EW	
23.93	25.30	1.37	0.75	55	0.14	10	EW	EW	
25.30	25.91	0.61	0.61	100	0.21	34	EW	EW	
25.91	27.43	1.52	1.23	81	0.16	11	EW	EW	
27.43	28.96	1.53	1.53	100	0.20	13	EW	EW	
28.96	30.02	1.06	1.06	100	0.90	85	MS	EW	
30.02	30.48	0.46	0.42	91	0.26	57	MS	EW	
30.48	32.00	1.52	1.43	94	1.39	91	MS	SW	
32.00	33.53	1.53	1.15	75	0.59	39	VW	SW	
33.53	33.83	0.30	0.28	93	0.00	0	VW	SW	
33.83	35.05	1.22	1.22	100	0.68	56	VW	SW	
35.05	36.42	1.37	1.24	91	0.99	72	MS	FR	
36.42	37.03	0.61	0.57	93	0.26	43	MS	FR	
37.03	38.10	1.07	1.07	100	0.62	58	MS	FR	
38.10	38.86	0.76	0.57	75	0.28	37	MS	FR	
38.86	40.23	1.37	0.51	37	0.16	12	EW	FR	
40.23	41.00	0.77	0.73	95	0.56	73	MS	FR	
41.00	42.37	1.37	0.93	68	0.36	26	MS	FR	
42.37	42.82	0.45	0.38	84	0.00	0	MS	FR	
42.82	44.20	1.38	1.18	86	0.12	9	EW	EW	
44.20	44.65	0.45	0.37	82	0.00	0	EW	EW	
44.65	45.11	0.46	0.16	35	0.00	0	EW	EW	
45.11	45.42	0.31	0.18	58	0.00	0	EW	EW	
45.42	45.87	0.45	0.42	93	0.10	22	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
45.87	46.33	0.46	0.29	63	0.00	0	EW	EW	
46.33	47.24	0.91	0.68	75	0.00	0	EW	EW	
47.24	47.85	0.61	0.35	57	0.00	0	EW	EW	
47.85	48.16	0.31	0.21	68	0.00	0	EW	EW	
48.16	48.77	0.61	0.12	20	0.00	0	EW	EW	
48.77	49.38	0.61	0.25	41	0.00	0	EW	EW	
49.38	49.83	0.45	0.45	100	0.11	24	EW	EW	
49.83	50.60	0.77	0.31	40	0.00	0	EW	EW	
50.60	51.82	1.22	1.12	92	0.10	8	EW	EW	
51.82	53.34	1.52	1.31	86	0.37	24	EW	EW	
53.34	53.80	0.46	0.41	89	0.20	43	EW	EW	
53.80	54.41	0.61	0.57	93	0.00	0	EW	EW	
54.41	55.63	1.22	1.18	97	0.27	22	EW	EW	
55.63	56.69	1.06	0.88	83	0.00	0	EW	EW	
56.69	57.15	0.46	0.46	100	0.00	0	EW	EW	
57.15	57.30	0.15	0.15	100	0.00	0	EW	EW	
57.30	57.76	0.46	0.25	54	0.00	0	EW	EW	
57.76	58.52	0.76	0.66	87	0.10	13	EW	EW	
58.52	59.13	0.61	0.43	70	0.00	0	EW	EW	
59.13	60.66	1.53	1.53	100	0.51	33	EW	EW	
60.66	62.18	1.52	1.52	100	0.81	53	EW	EW	
62.18	63.86	1.68	1.68	100	0.33	20	EW	EW	
63.86	65.53	1.67	1.57	94	0.95	57	EW	EW	
65.53	66.60	1.07	0.90	84	0.00	0	EW	EW	
66.60	67.51	0.91	0.61	67	0.00	0	EW	EW	
67.51	69.95	2.44	1.00	41	0.27	11	EW	EW	
69.95	71.63	1.68	0.32	19	0.00	0	EW	EW	
71.63	72.69	1.06	0.24	23	0.00	0	EW	EW	
72.69	74.07	1.38	0.60	43	0.11	8	EW	EW	
74.07	74.68	0.61	0.56	92	0.10	16	EW	EW	
74.68	76.20	1.52	0.51	34	0.00	0	EW	EW	
76.20	76.96	0.76	0.23	30	0.00	0	EW	EW	
76.96	77.72	0.76	0.76	100	0.00	0	EW	EW	
77.72	78.79	1.07	0.28	26	0.00	0	HW	MS	
78.79	80.47	1.68	1.60	95	0.84	50	HW	MS	
80.47	81.99	1.52	1.52	100	1.38	91	HW	MS	
81.99	83.82	1.83	1.47	80	0.70	38	HW	MS	
83.82	85.19	1.37	0.83	61	0.00	0	HW	MS	
85.19	86.87	1.68	0.56	33	0.00	0	HW	MS	
86.87	88.39	1.52	0.22	14	0.00	0	HW	MS	

SAMPLE LOG

HOLE: Rau-09-47

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.42	5.03	1.61	0.98	61	H884927	1.5	37	0.22	4.51	2630	16.65	
5.03	7.32	2.29	1.15	50	H884928	2.0	37	0.18	2.85	278	15.85	
7.32	9.14	1.82	0.78	43	H884929	1.5	37	0.03	4.80	397	22.50	
9.14	11.58	2.44	0.87	36	H884930	1.5	37	0.03	17.15	445	90.70	
11.58	13.11	1.53	1.21	79	H884931	2.0	38	0.01	7.02	471	17.00	
13.11	15.54	2.43	0.63	26	H884932	1.0	38	0.01	24.10	343	149.00	
15.54	16.92	1.38	0.82	59	H884933	1.0	38	0.19	179.00	1895	581.00	
16.92	18.59	1.67	0.69	41	H884934	1.0	38	0.04	36.80	1120	1060.00	
18.59	20.88	2.29	0.68	30	H884936	1.0	38	0.01	17.30	991	1060.00	
20.88	23.93	3.05	3.05	100	H884937	5.5	38	0.02	6.71	439	1350.00	
23.93	25.91	1.98	1.26	64	H884938	3.5	38	0.03	2.30	1475	2170.00	
25.91	27.43	1.52	1.10	72	H884940	2.0	38	0.03	35.80	2340	2200.00	
27.43	28.96	1.53	1.48	97	H884941	2.0	38	0.48	9.39	473	878.00	
28.96	32.00	3.04	2.95	97	H884942	4.5	38	0.27	1.82	192	76.40	
32.00	34.28	2.28	1.70	75	H884943	2.5	38	0.03	2.66	664	1380.00	
34.28	37.03	2.75	2.52	92	H884945	4.0	38	<0.01	0.25	113	6.75	
37.03	39.00	1.97	1.77	90	H884946	3.0	38	0.05	0.08	200	3.26	
39.00	40.23	1.23	0.35	28	H884947	0.5	38	0.11	1.59	>10000	6.67	
40.23	41.60	1.37	1.36	99	H884949	2.5	38	<0.01	0.13	167	0.49	
41.60	44.20	2.60	1.77	68	H884950	3.0	38	0.03	0.58	>10000	1.48	
44.20	47.24	3.04	1.85	61	H885501	3.5	38	0.06	0.55	>10000	11.50	
47.24	49.83	2.59	1.36	53	H885502	2.0	38	0.04	0.40	>10000	13.85	
49.83	51.82	1.99	1.32	66	H885503	2.0	38	5.05	0.41	>10000	415.00	
51.82	54.41	2.59	2.24	86	H885504	4.0	38	2.25	0.46	>10000	207.00	
54.41	57.30	2.89	2.27	79	H885505	5.5	38	3.19	0.90	>10000	213.00	
57.30	59.13	1.83	1.06	58	H885506	3.0	38	0.49	0.78	>10000	427.00	
59.13	60.43	1.30	1.08	83	H885507	2.0	38	0.32	0.58	>10000	263.00	
60.43	61.47	1.04	1.04	100	H885509	2.0	38	0.80	1.43	>10000	338.00	
61.47	63.04	1.57	1.57	100	H885510	2.5	38	0.44	0.47	>10000	72.70	
63.04	64.60	1.56	1.40	90	H885511	2.0	38	0.67	0.49	>10000	30.50	
64.60	65.53	0.93	0.65	70	H885512	0.5	38	0.96	0.70	>10000	13.85	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
65.53	67.51	1.98	1.62	82	H885513	3.0	38	1.25	0.67	>10000	297.00	
67.51	69.95	2.44	1.04	43	H885514	1.5	38	0.89	0.40	>10000	49.90	
69.95	71.63	1.68	0.34	20	H885515	0.5	38	1.10	0.77	>10000	236.00	
71.63	72.69	1.06	0.30	28	H885516	0.5	38	1.04	0.66	>10000	534.00	
72.69	74.07	1.38	0.68	49	H885517	1.0	39	2.40	1.24	>10000	474.00	
74.07	76.20	2.13	1.19	56	H885518	1.5	39	1.10	0.61	>10000	67.20	
76.20	78.79	2.59	1.35	52	H885520	2.0	39	1.51	0.89	>10000	88.30	
78.79	80.47	1.68	1.52	90	H885521	2.0	39	2.96	1.70	>10000	207.00	
80.47	83.53	3.06	2.80	92	H885522	4.0	39	11.25	16.50	>10000	431.00	
83.53	85.19	1.66	0.95	57	H885523	1.5	39	3.82	14.75	>10000	567.00	
85.19	86.87	1.68	0.51	30	H885525	0.5	39	3.89	15.50	>10000	1700.00	
86.87	88.39	1.52	0.22	14	H885526	0.5	39	0.31	1.73	>10000	27.60	
-	-	-			H884935	0.3	38	1.46	1.75	>10000	343.00	Standard R-2
-	-	-			H884939	4.0	38	<0.01	0.09	<5	5.06	Blank
32.00	34.28	2.28	1.70	75	H884944	1.0	38	0.02	2.31	890	959.00	Duplicate
-	-	-			H884948	4.0	38	<0.01	0.05	8	1.10	Blank
-	-	-			H885508	0.3	38	1.50	1.74	>10000	318.00	Standard R-2
-	-	-			H885519	4.0	39	0.01	0.06	72	0.53	Blank
-	-	-			H885524	0.3	39	1.42	1.56	>10000	343.00	Standard R-2

DENSITY LOG

HOLE: Rau-09-47

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
9.25	OX	CLY		7.4	4.2	294.8	153.5	2.88	2.09
31.20	OX	CLY		14.8	4.2	577.6	373.1	2.82	2.82
38.22	MBL			14.7	4.2	556.6	352.4	2.73	2.73

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-47

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
4.00	OX	CLY	0.41	
5.00	OX	CLY	0.18	
6.00	OX	CLY	0.18	
7.00	OX	CLY	0.28	
8.00	OX	CLY	0.14	
9.00	OX	CLY	1.80	
10.00	OX	CLY	0.51	
11.00	OX	CLY	0.30	
12.00	OX	CLY	0.24	
13.00	OX	CLY	0.02	
14.00	OX	CLY	0.10	
15.00	OX	CLY	0.26	
16.00	OX	CLY	1.80	
17.00	OX	CLY	0.04	
18.00	OX	CLY	0.04	
19.00	OX	CLY	0.75	
20.00	OX	CLY	0.34	
21.00	OX	CLY	0.30	
22.00	OX	CLY	0.45	
23.00	OX	CLY	0.30	
24.00	OX	CLY	0.45	
25.00	OX	CLY	0.45	
26.00	OX	CLY	0.41	
27.00	OX	CLY	0.14	
28.00	OX	CLY	0.92	
29.00	OX	CLY	0.84	
30.00	OX	CLY	0.18	
31.00	OX	CLY	0.26	
32.00	OX	CLY	0.16	
33.00	OX	CLY	0.22	
34.00	OX	CLY	0.12	
35.00	MBL		0.08	
36.00	MBL		0.30	
37.00	MBL		0.02	
38.00	MBL		0.04	
39.00	MBL		0.24	
40.00	MBL		0.06	
41.00	MBL		0.00	
42.00	OX	RBL	0.04	
43.00	OX	RBL	0.79	
44.00	OX	RBL	0.41	
45.00	OX	RBL	0.30	
46.00	OX	RBL	0.34	
47.00	OX	RBL	0.49	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
48.00	OX	RBL	0.30	
49.00	OX	RBL	0.24	
50.00	OX	RBL	0.22	
51.00	OX	RBL	0.67	
52.00	OX	RBL	0.30	
53.00	OX	RBL	0.51	
54.00	OX	RBL	0.51	
55.00	OX	RBL	0.30	
56.00	OX	RBL	0.63	
57.00	OX	RBL	0.26	
58.00	OX	RBL	0.92	
59.00	OX	RBL	0.45	
60.00	OX	RBL	0.28	
61.00	OX	RBL	0.38	
62.00	OX	RBL	0.73	
63.00	OX	RBL	1.90	
64.00	OX	RBL	0.49	
65.00	OX	RBL	0.41	
66.00	OX	RBL	0.36	
67.00	OX	RBL	0.43	
68.00	OX	RBL	0.67	
69.00	OX	RBL	0.38	
70.00	OX	RBL	0.59	
71.00	OX	RBL	1.08	
72.00	OX	RBL	0.38	
73.00	OX	RBL	0.49	
74.00	OX	RBL	0.24	
75.00	OX	RBL	0.20	
76.00	OX	RBL	0.12	
77.00	OX	RBL	0.61	
78.00	OX	RBL	0.14	
79.00	OX	RBL	0.49	
80.00	OX	RBL	0.63	
81.00	OX	RBL	0.61	
82.00	OX	RBL	0.55	
83.00	OX	RBL	1.27	
84.00	OX	RBL	0.48	
85.00	OX	RBL	0.36	
86.00	OX	RBL	0.14	
87.00	OX	RBL	0.18	
88.00	OX	RBL	0.10	

BOX LOG

HOLE: Rau-09-47

BOX	FROM (m)	TO (m)
1	3.42	12.35
2	12.35	21.50
3	21.50	27.34
4	27.34	33.15
5	33.15	38.10
6	38.10	45.11
7	45.11	51.82
8	51.82	57.30
9	57.30	62.38
10	62.38	67.94
11	67.94	77.72
12	77.72	83.91
13	83.91	88.39
	88.39	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+400W

HOLE: RAU-09-48
CLAIM: RAU 69

Easting	Northing	Elev.	Depth (m)
528343	7119314	1354.48	160.94

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	48	-82	compass				

Core size: HQ (195' NQ2)
Casing depth: 9.14 (m) out

Drilling dates: August 9 - 14, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.76	3.76	OVB	
3.76	54.30	50.54	LST	Fossiliferous
54.30	78.88	24.58	OX	Rubbly
78.88	87.51	8.63	DOL	Brecciated
87.51	114.80	27.29	LST	Altered
114.8	129.35	14.55	VOL	
129.35	141.5	12.15	LST	Altered
141.5	141.79	0.29	MAG	Massive magnetite
141.79	149.22	7.43	VOL	
149.22	160.55	11.33	LST	Altered
160.55	160.93	0.38	LEP	

SAMPLES	
Numbers:	H885527-H885549, H885582-H885614
	Batches 39,40,41
Total:	56
Date sent:	
Certificate:	VA09088876, VA09090674, VA09090673

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-48

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.76	3.76	OVB																			
3.76	54.30	50.54	LST	FOS	BN																	Medium grey banded (probably a foliation) slightly fossiliferous limestone that is quite fractured and rubbly with some medium yellow brown clay coating on fractures. Banding occurs at between 20-40 deg to CA.
						FO	30															3.76-10.00 m: Banding occurs at 30 deg to CA.
						FO	25															10.00-12.00 m: Banding occurs at 25 deg to CA.
						FO	20															12.00-15.00 m: Banding occurs at 20 deg to CA.
						FO	40															15.00-17.97 m: Banding occurs at 40 deg to CA.
						VN	50															19.97-22.25 m: Zone of fluid collapse breccia. Ca veins up to 4 cm thick cut the limestone at 50 deg to CA. 19.01-19.13 m, yellow-orange-brown clay intervals with small angular limestone fragments occurs. This clay does not fizz with acid and appears to be of similar composition to the clay coating fractures. Much of this interval is rubbly.
						FO	5-															22.25 m: Begin to see small 2-4 mm crinoid stem fragments within the limestone. Fair to weak overall. Banding appears much more structurally controlled and runs at 50 deg to CA. Zones of very light grey marbleized (?) limestone 10-15 cm thick occasionally occur within the limestone. The contacts of these zones are relatively diffuse.
																						23.34-23.39 m: Zone of yellow-orange-brown clay with angular limestone fragments occurring within.
						FO	10															30.10-34.44 m: There is a gradual shallowing of the FO to 10 deg to CA by 30.50m. By 31.39 m the foliation returns to 30 deg to CA.
						FO	30															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	45															34.44-48.16 m: Rubbly limestone becoming extremely rubbly at 47 m. Foliation occurs at 45 deg to CA.
																						48.16-51.25 m: Quartz rubble up to 3 cm by > core diameter occurs. Poor recovery.
54.30	78.88	24.58	OX	RBL																		Medium orange-red-brown rubbly clay oxide with dark red-brown to black limonite fragments as well as strongly altered dark brown carbonate zones containing quartz clasts and rubble. (COLOUR - 7.5YR 5/6 - strong brown).
																						54.30-55.78 m: Very poor recovery. 3 cm of orange-brown clay with rubbly quartz fragments. NOTE: because the recovery is so poor this area has such poor recovery sampling was not conducted.
																						55.78-57.30 m: NO RECOVERY
				CLY																		54.25-55.78 m: Medium orange-brown gritty clay oxide with dark brown limonite fragments (5% overall) and minor (1%) angular to sub-angular quartz fragments up to ~ 1cm in diameter.
						FO	60															55.78-61.87 m: Dark brown strongly altered carbonate with orange-brown clay coatings on fractures and the chilled surface. On some of the pieces a brecciated texture occurs. Clasts are subangular and 0.3-2 cm in diameter. The clasts are various oxidized colours from light orange-brown to dark red-brown. The matrix is medium orange-brown. At 63.69 m a banded texture occurs at 60 deg to CA. Overall this interval is moderately rubbly. (COLOUR: 5YR 3/1 - dark grey).
																						61.43-61.87 m: Oxide breccia with quartz clasts up to 4 cm in diameter and angular to sub-angular.
																						61.87-71.02 m: Medium red-brown strongly oxidized carbonate. Rock is quite competent. Few textures are viable within the oxide. (COLOUR: 5YR 3/3 - Dark reddish brown.)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	30															64.55 m: There is a sharp band that occurs at 30 deg to CA. There are also some coarse grained (up to 1 cm) euhedral oxidized pyrite crystals that are dark brown in colour. Faint brecciation textures also occur on other pieces.
																						71.23 m: the interval becomes quite rubbly.
																						71.02-72.54 m: Very crumbly medium to dark red-brown oxide that is rubbly with fair intermixed clay. (COLOUR 7.5 YR 4/2)
																						72.54-74.48 m: Medium brown becoming orange-brown clay to gritty clay. (COLOUR 10YR 5/4-yellowish brown to 10YR 5/6-yellowish brown)
																						74.47-78.88 m: Medium to dark reddish brown gritty clay oxide with a 20 cm zone of yellow orange oxide clay at 75.40 m.
78.88	87.51	8.63	DOL	ALT	BX	VN	60															Very altered brecciated medium grained dolomite with cross cutting fractures and veins. Overall the unit is weakly to strongly altered to a medium red-brown to dark red-brown colour. No visible mineralization occurs. The white occurs with medium grey limestone (?) patches. May represent only partial coarser grained dolomite replacement. Slight red-purple staining occurs (hematite?) Veins cut at 60, 70 deg to CA. Fractures and fracture filling occurs at various angles, most commonly 30 and 80 deg.
						VN	70															83.00-83.61 m: Very rubbly and clay rich altered zone.
						FR	80															
						FR	30															
																						84.19-84.98 m: Dark grey-black very finely brecciated limestone (?) (DOES NOT FIZZ WITH ACID) Moderately to strongly altered with a fine crackled texture.
																						84.98-85.39 m: Medium orange-brown, taupe-brown rubbly clay.
																						85.39-87.51 m: Very rubbly dark red purple-brown limonite rubble with moderate bright yellow-orange-brown clay coatings and intervals.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
87.51	114.80	27.29	LST	ALT																		Medium grey dolomitized limestone (?) does not fizz strongly with acid, only fizzes partially or not at all. Has weak to moderate medium brown alteration with some red-purple (hematite) stained areas. Fractures are moderately oxidized with an orange-brown oxide coating.
																						105.98-110.97 m: the dolomitized limestone becomes more regular in appearance. Medium grey with crackle and mosaic brecciation by Ca veins. The core is fairly rubbly and fractured surfaces are oxidized orange-brown. There is weak brown staining along healed fractures within the breccia.
																						110.97-114.80 m: Medium orange-brown oxide with rubbly dolomitized limestone fragments. The fragments are in various stages of decomposition into clay.
114.80	129.35	14.55	VOL			FO	45															Dark grey green volcaniclastic? With strong foliation at 45 deg to CA. Weakly to strongly altered to a yellow-orange competent clay with relict foliation. Small amygdules (?) occur throughout, most of which form small depressions.
						FO	40															114.80-127.05 m: Weakly to moderately altered volcaniclastic. FO occurs at 45 deg to CA. 118.26-124.26 m, more crumbly-almost clay with slight greenish-orange alteration. 123.36-127.98 m: highly altered yellow-orange with relict foliation at 40 deg to CA.
						FO	40															127.05-127.98 m: Highly altered yellow-orange with relict foliation at 40 deg to CA.
						FO	40															127.98-129.35 m: Possibly interlayered volcaniclastic with limestone (?) Yellow orange fissile altered volcaniclastic with zones of darker red-brown more competent zones. FO occurs at 40 deg to CA

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
129.35	141.50	12.15	LST	ALT								s										Medium to dark orange-brown strongly altered limestone (???) FO occurs rarely but when it occurs it is at 40 deg to CA. Possible brecciated zones (based on texture of oxide colouration). Small intervals of salt and pepper sand with some magnetite grains and altered mica flakes - bottom of interval is marbleized light grey limestone.
																						133.50-133.88 m: Red-brown hematite (?) altered zone. Core is slightly vuggy. Quite crumbly and clay altered.
																						133.88-136.20 m: Possible highly altered breccia zone.
																						136.20-141.50 m: Predominantly strongly altered limestone with thin layers of yellow volcaniclastic overall very rubbly.
																						134.24-134.39 m, 139.60-139.90 m: Salt and pepper sand zones.
																						141.10-141.50 m: Strongly marbleized limestone. White-light grey in colour with banding at 50 deg to CA.
141.50	141.79	0.29	MAG			CN	60													Mag	100	Massive fine grained black magnetite. Upper contact is quite sharp, but too rubbly for orientation.
141.79	149.22	7.43	VOL			FO	55													MAG	s	Medium slightly green-grey fine grained volcaniclastic with 10-15% fine to medium grained magnetite grained scattered evenly throughout. Thin oxidized veinlets seem slightly more concentrated in magnetite. Occurs more commonly at 35 deg to CA. Foliation is at 55 deg to CA. By 144 m the foliation shallows to ~ 30 deg to CA. Concentrated patches of magnetite occur stretched slightly along the foliation up to 0.8 cm in diameter (weak concentration overall).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	35															145.69 m: The oxide bands increase in concentration - although they no longer appear to be concentrated with magnetite. Foliation is at 40 deg to CA.
149.22	160.55	11.33	LST	ALT	FO	FO	45													Mag	f	Medium grey limestone (?) with pinkish-orange bleached zones. Magnetite still occurs but the concentration has decreased to fair (3-5 %). Sericite wispy stringers occur at the top of the interval. Within the altered zones there is some calcite flood. Upper contact is marked by a decrease in magnetite, a slight change in colour and an addition of calcite (fizzes weakly - moderately with acid). Orange oxidized veinlets run at 30 deg to CA and 200 deg to FO. Foliation occurs at 45 deg to CA.
						VN	35	200														
																						151.68-154.18 m: Pale pink-orange bleached zone with minor calcite flood (still contains magnetite).
																						158.68-160.55 m: Bleached pink/orange/grey zone is slightly less altered than above zone. Fractured have occasional orange-red stain.
160.55	160.93	0.38	LEP			FO	60															Red/pale orange altered leopard printed rock (?) Spotted with tan/white calcareous patches. The bleached, pale orange area alters the white calcareous patches as well. FO runs at 60 deg to CA.
																						160.93 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-48

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.76	3.96	0.20	0.20	100	0.00	0	VS	SW	
3.96	5.49	1.53	0.30	20	0.13	8	VS	SW	
5.49	7.04	1.55	0.79	51	0.52	34	VS	SW	
7.04	8.53	1.49	1.46	98	0.37	25	VS	SW	
8.53	11.58	3.05	2.65	87	2.18	71	VS	SW	
11.58	13.11	1.53	1.53	100	0.45	29	VS	SW	
13.11	14.63	1.52	1.12	74	0.36	24	VS	SW	
14.63	16.15	1.52	1.44	95	0.84	55	VS	SW	
16.15	17.68	1.53	1.31	86	0.14	9	VS	SW	
17.68	19.20	1.52	1.52	100	1.09	72	S	SW	
19.20	20.73	1.53	1.20	78	0.48	31	S	SW	
20.73	22.25	1.52	1.38	91	0.27	18	S	SW	
22.25	23.77	1.52	1.45	95	0.12	8	S	SW	
23.77	25.30	1.53	0.82	54	0.27	18	S	SW	
25.30	26.82	1.52	1.28	84	0.10	7	S	SW	
26.82	29.87	3.05	2.23	73	0.46	15	S	SW	
29.87	31.39	1.52	1.52	100	1.00	66	S	SW	
31.39	32.92	1.53	1.02	67	0.48	31	S	SW	
32.92	34.44	1.52	0.90	59	0.20	13	MS	SW	
34.44	35.97	1.53	1.52	99	0.62	41	MS	SW	
35.97	37.49	1.52	1.15	76	0.56	37	MS	SW	
37.49	39.01	1.52	1.18	78	0.24	16	MS	SW	
39.01	40.54	1.53	1.00	65	0.10	7	MS	SW	
40.54	42.06	1.52	1.26	83	0.28	18	MS	SW	
42.06	43.59	1.53	1.28	84	0.92	60	MS	SW	
43.59	45.11	1.52	0.58	38	0.10	7	MS	SW	
45.11	46.63	1.52		0		0	MS	SW	
46.63	48.16	1.53	0.10	7	0.00	0	MS	SW	
48.16	49.68	1.52	0.11	7	0.00	0	MS	SW	
49.68	51.21	1.53	0.17	11	0.00	0	MS	SW	
51.21	52.73	1.52	0.08	5	0.00	0	EW	HW	
52.73	54.25	1.52		0		0	EW	HW	
54.25	55.78	1.53	1.53	100	0.51	33	EW	HW	
55.78	57.30	1.52	1.52	100	0.85	56	EW	HW	
57.30	58.83	1.53	1.52	99	0.51	33	EW	HW	
58.83	60.35	1.52	1.52	100	0.74	49	EW	HW	
60.35	61.87	1.52	1.52	100	0.95	63	EW	HW	
61.87	63.40	1.53	1.53	100	0.54	35	EW	HW	
63.40	64.92	1.52	1.52	100	0.75	49	EW	HW	
64.92	66.45	1.53	1.52	99	0.62	41	EW	HW	
66.45	67.97	1.52	1.52	100	0.78	51	EW	HW	
67.97	69.49	1.52	1.52	100	0.73	48	EW	HW	
69.49	71.02	1.53	1.53	100	0.10	7	EW	HW	
71.02	72.54	1.52	1.52	100	0.00	0	EW	HW	
72.54	74.07	1.53	1.52	99	0.10	7	EW	HW	
74.07	75.59	1.52	1.52	100	0.00	0	EW	HW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
75.59	77.11	1.52	1.00	66	0.00	0	EW	HW	
77.11	78.64	1.53	1.04	68	0.00	0	EW	HW	
78.64	80.16	1.52	1.42	93	1.09	72	EW	HW	
80.16	81.69	1.53	1.52	99	0.73	48	EW	HW	
81.69	83.21	1.52	1.52	100	0.77	51	EW	HW	
83.21	84.73	1.52	1.35	89	0.38	25	EW	HW	
84.73	86.26	1.53	1.48	97	0.23	15	EW	HW	
86.26	87.78	1.52	0.68	45	0.00	0	MS	MW	
87.78	89.31	1.53	1.00	65	0.34	22	MS	MW	
89.31	90.83	1.52	1.52	100	0.66	43	MS	MW	
90.83	92.35	1.52	1.52	100	0.70	46	MS	MW	
92.35	93.88	1.53	1.25	82	0.45	29	MS	MW	
93.88	95.40	1.52	0.76	50	0.00	0	MS	MW	
95.40	96.93	1.53	1.43	93	0.26	17	MS	MW	
96.93	98.45	1.52	1.52	100	0.72	47	MS	MW	
98.45	101.84	3.39	0.00	0	0.00	0			No recovery during reduction from HQ-NQ
101.84	103.02	1.18	1.09	92	0.48	41	MS	MW	
103.02	106.07	3.05	2.75	90	1.91	63	MS	MW	
106.07	109.12	3.05	2.70	89	1.29	42	MS	MW	
109.12	112.17	3.05	2.57	84	1.42	47	W	HW	
112.17	115.21	3.04	1.88	62	0.42	14	W	HW	
115.21	118.26	3.05	1.67	55	0.20	7	W	HW	
118.26	121.31	3.05	0.15	5	0.00	0	W	HW	
121.31	124.36	3.05	1.92	63	0.27	9	W	HW	
124.36	127.41	3.05	1.56	51	0.32	10	W	HW	
127.41	130.45	3.04	2.55	84	1.11	37	W	HW	
130.45	133.50	3.05	1.47	48	0.15	5	VW	HW	
133.50	136.55	3.05	1.39	46	0.11	4	VW	HW	
136.55	139.60	3.05	1.12	37	0.00	0	VW	HW	
139.60	142.65	3.05	2.01	66	0.87	29	MS	HW	
142.65	145.69	3.04	3.04	100	2.07	68	MS	MW	
145.69	148.74	3.05	3.02	99	2.68	88	MS	MW	
148.74	151.79	3.05	2.90	95	2.18	71	MS	MW	
151.79	154.84	3.05	3.02	99	1.82	60	MS	MW	
154.84	157.89	3.05	2.97	97	2.20	72	MS	MW	
157.89	160.93	3.04	3.04	100	1.41	46	MS	MW	
	160.93	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-48

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
40.54	43.59	3.05	2.29	75	H885527	6.5	39	0.02	0.13	128	0.79	
43.59	45.11	1.52	0.44	29	H885528	1.5	39	0.15	0.44	125	0.28	45.11-54.25- esentially no recovery
54.25	55.78	1.53	1.53	100	H885529	5.0	39	0.43	2.11	>10000	49.70	
55.78	58.83	3.05	2.72	89	H885530	9.5	39	6.55	1.04	>10000	715.00	
58.83	60.35	1.52	1.30	86	H885531	4.0	39	4.69	0.50	>10000	574.00	
60.35	61.87	1.52	1.50	99	H885532	4.0	39	16.80	1.14	>10000	639.00	
61.87	64.92	3.05	2.78	91	H885533	10.0	39	1.54	0.29	>10000	303.00	
64.92	67.97	3.05	2.80	92	H885536	10.5	39	1.26	0.25	>10000	613.00	
67.97	71.02	3.05	2.95	97	H885537	9.0	39	3.30	1.34	>10000	841.00	
71.02	72.54	1.52	0.89	59	H885538	2.0	39	0.60	2.35	>10000	565.00	
72.54	74.48	1.94	1.56	80	H885539	3.0	39	0.42	0.25	>10000	35.30	
74.48	77.11	2.63	1.65	63	H885540	5.0	39	0.45	1.19	>10000	56.70	
77.11	78.88	1.77	1.39	79	H885541	4.0	39	0.39	6.29	>10000	73.90	
78.88	81.69	2.81	2.05	73	H885542	10.0	39	0.12	0.09	2310	3.68	
81.69	83.61	1.92	1.83	95	H885543	6.5	39	0.11	0.13	4800	8.38	
83.61	84.98	1.37	1.32	96	H885544	4.0	39	0.09	0.10	2900	3.55	
84.98	87.51	2.53	1.35	53	H885545	3.0	39	0.28	0.30	>10000	2.67	
87.51	90.25	2.74	2.68	98	H885547	8.0	39	0.14	0.73	3270	1.69	
90.25	92.35	2.10	2.02	96	H885548	7.5	39	0.08	0.06	971	0.88	
92.35	95.40	3.05	1.93	63	H885549	6.0	39	0.06	0.08	936	1.55	
95.40	98.45	3.05	2.80	92	H885582	9.5	39	0.10	0.12	1100	4.03	No recovery between because the
101.84	103.02	1.18	1.18	100	H885583	2.0	39	0.09	0.16	725	2.78	rods were reduced to NQ.
103.02	105.98	2.96	2.71	92	H885584	7.0	39	0.07	0.19	613	1.60	
105.98	107.17	1.19	1.15	97	H885586	3.0	39	0.04	0.19	563	9.44	
107.17	109.12	1.95	1.64	84	H885587	4.0	40	0.05	0.23	1140	26.50	
109.12	110.97	1.85	1.85	100	H885588	5.0	40	0.02	0.21	936	3.12	
110.97	112.97	2.00	1.40	70	H885589	2.5	41	0.26	1.70	8990	10.45	
112.97	114.80	1.83	0.98	54	H885590	2.0	41	0.33	0.71	9400	22.40	
114.80	116.00	1.20	0.88	73	H885592	2.0	41	0.04	0.16	3710	34.40	
116.00	118.26	2.26	1.35	60	H885593	3.0	41	0.06	0.40	1920	5.11	
118.26	121.31	3.05	0.24	8	H885594	0.5	41	0.08	3.51	689	4.52	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
121.31	124.36	3.05	2.24	73	H885595	5.0	41	0.06	0.21	890	4.94	
124.36	127.05	2.69	1.20	45	H885596	3.0	41	0.09	0.07	1120	2.77	
127.05	127.98	0.93	0.93	100	H885598	2.0	41	0.04	0.09	1920	2.12	
127.98	129.35	1.37	1.26	92	H885599	3.0	41	0.02	0.06	573	3.51	
129.35	130.45	1.10	0.79	72	H885600	2.0	41	0.01	0.01	318	0.11	
130.45	133.50	3.05	1.41	46	H885601	3.5	41	0.02	0.01	938	0.23	
133.50	136.20	2.70	1.14	42	H885602	2.5	41	0.06	1.75	3350	6.22	
136.20	138.50	2.30	1.07	47	H885604	2.5	41	0.02	0.25	1500	5.02	
138.50	141.50	3.00	1.42	47	H885605	3.0	41	0.09	8.29	2360	4.19	
141.50	144.50	3.00	2.79	93	H885606	9.5	41	<0.01	0.09	51	0.32	
144.50	147.15	2.65	2.65	100	H885607	9.5	41	<0.01	0.08	41	0.09	
147.15	149.22	2.07	1.92	93	H885608	6.0	41	<0.01	0.01	14	0.04	
149.22	151.79	2.57	2.28	89	H885609	7.0	41	<0.01	<0.01	19	0.01	
151.79	154.84	3.05	2.96	97	H885610	9.0	41	<0.01	<0.01	36	0.03	
154.84	157.89	3.05	3.00	98	H885611	10.0	41	<0.01	<0.01	42	0.03	
157.89	160.55	2.66	2.45	92	H885613	7.0	41	<0.01	0.12	99	0.23	
160.55	160.93	0.38	0.38	100	H885614	1.0	41	<0.01	<0.01	100	0.15	
-	-	-			H885534	4.0	39	0.02	0.01	343	1.04	Blank
-	-	-			H885535	0.3	39	0.45	0.78	6300	105.50	Standard R-1
84.98	87.51	2.53	1.35	53	H885546	2.0	39	0.34	0.28	>10000	2.54	Duplicate
-	-	-			H885585	3.5	39	<0.01	0.17	8	0.07	Blank
-	-	-			H885591	4.0	41	<0.01	0.02	26	0.09	Blank
-	-	-			H885597	0.3	41	1.50	1.76	25700	351.00	Standard R-2
-	-	-			H885603	4.5	41	<0.01	0.01	7	0.09	Blank
154.84	157.89	3.05	3.00	98	H885612	4.5	41	<0.01	<0.01	30	0.02	Duplicate

DENSITY LOG

HOLE: RAU-09-48

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
147.35	VOL			15.0	4.2	951.8	646.0	4.58	3.11
145.78	VOL			15.0	4.2	911.9	607.8	4.39	3.00
150.85	LST			15.2	4.2	898.6	587.9	4.27	2.89
154.37	LST			15.1	4.2	933.5	625.2	4.46	3.03

BOX DENSITY LOG

HOLE: RAU-09-48

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments
21	93.88	98.45	6	LST	ALT DOL	3.71	46	1.99	
28	144.40	149.79	5	VOL		5.65	54	2.21	Magnetite Rich

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-48

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00				overburden
2.00				overburden
3.00				overburden
4.00	LST		0.03	
5.00	LST		0.01	
6.00	LST		0.01	
7.00	LST		0.00	
8.00	LST		0.01	
9.00	LST		1.32	
10.00	LST		0.01	
11.00	LST		0.15	
12.00	LST		0.01	
13.00	LST		0.01	
14.00	LST		0.03	
15.00	LST		0.01	
16.00	LST		0.01	
17.00	LST		0.03	
18.00	LST		0.05	
19.00	LST		0.26	
20.00	LST		0.21	
21.00	LST		0.01	
22.00	LST		0.13	
23.00	LST		0.47	
24.00	LST		0.20	
25.00	LST		0.03	
26.00	LST		0.18	
27.00	LST		0.13	
28.00	LST		0.08	
29.00	LST		0.03	
30.00	LST		0.10	
31.00	LST		0.16	
32.00	LST		0.06	
33.00	LST		0.03	
34.00	LST		0.06	
35.00	LST		0.06	
36.00	LST		0.11	
37.00	LST		0.11	
38.00	LST		0.03	
39.00	LST		0.10	
40.00	LST		0.08	
41.00	LST		0.33	
42.00	LST		0.03	
43.00	LST		0.11	
44.00	LST		0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST		0.01	
46.00	LST			
47.00	LST		0.00	
48.00	LST		0.01	
49.00	LST		0.00	
50.00	LST		0.00	
51.00	LST		0.00	
52.00	LST		0.00	
53.00	LST			
54.00	LST		0.72	
55.00	OX	RBL	0.43	
56.00	OX	RBL	0.77	
57.00	OX	RBL	0.82	
58.00	OX	RBL	0.40	
59.00	OX	RBL	0.84	
60.00	OX	RBL	0.60	
61.00	OX	RBL	0.26	
62.00	OX	RBL	0.63	
63.00	OX	RBL	0.84	
64.00	OX	RBL	0.70	
65.00	OX	RBL	1.14	
66.00	OX	RBL	0.65	
67.00	OX	RBL	0.84	
68.00	OX	RBL	0.57	
69.00	OX	RBL	0.47	
70.00	OX	RBL	0.84	
71.00	OX	RBL	0.15	
72.00	OX	RBL	0.50	
73.00	OX	RBL	0.57	
74.00	OX	RBL	0.45	
75.00	OX	RBL	0.52	
76.00	OX	RBL	0.55	
77.00	OX	RBL	0.18	
78.00	OX	RBL	0.35	
79.00	DOL	MX	0.13	
80.00	DOL	MX	0.10	
81.00	DOL	MX	0.11	
82.00	DOL	MX	0.31	
83.00	DOL	MX	0.15	
84.00	DOL	MX	0.21	
85.00	DOL	MX	0.10	
86.00	DOL	MX	0.23	
87.00	DOL	MX	0.35	
88.00	LST	ALT	0.23	
89.00	LST	ALT	0.11	
90.00	LST	ALT	0.28	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
91.00	LST	ALT	0.10	
92.00	LST	ALT	0.08	
93.00	LST	ALT	0.15	
94.00	LST	ALT	0.10	
95.00	LST	ALT	0.15	
96.00	LST	ALT	0.13	
97.00	LST	ALT	0.10	
98.00	LST	ALT	0.11	
99.00	LST	ALT		
100.00	LST	ALT		
101.00	LST	ALT		
102.00	LST	ALT	0.12	
103.00	LST	ALT	0.08	
104.00	LST	ALT	0.10	
105.00	LST	ALT	0.12	
106.00	LST	ALT	0.06	
107.00	LST	ALT	0.08	
108.00	LST	ALT	0.06	
109.00	LST	ALT	0.08	
110.00	LST	ALT	0.04	
111.00	LST	ALT	0.08	
112.00	LST	ALT	0.36	
113.00	LST	ALT	0.30	
114.00	LST	ALT	0.22	
115.00	VOL		0.36	
116.00	VOL		0.65	
117.00	VOL		0.59	
118.00	VOL		0.32	
119.00	VOL			
120.00	VOL			
121.00	VOL			
122.00	VOL		0.10	
123.00	VOL		0.06	
124.00	VOL		0.34	
125.00	VOL		0.14	
126.00	VOL		0.24	
127.00	VOL		0.20	
128.00	VOL		0.51	
129.00	VOL		0.55	
130.00	LST	ALT	1.16	
131.00	LST	ALT	0.45	
132.00	LST	ALT	0.55	
133.00	LST	ALT	29.90	
134.00	LST	ALT	0.67	
135.00	LST	ALT	0.65	
136.00	LST	ALT	0.49	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
137.00	LST	ALT	0.18	
138.00	LST	ALT	0.32	
139.00	LST	ALT	78.20	
140.00	LST	ALT	7.89	
141.00	LST	ALT	723.00	massive magnetite
142.00	VOL		205.00	
143.00	VOL		440.00	
144.00	VOL		203.00	
145.00	VOL		179.00	
146.00	VOL		246.00	
147.00	VOL		225.00	
148.00	VOL		454.00	
149.00	VOL		487.00	
150.00	LEP		41.20	
151.00	LEP		80.10	
152.00	LEP		14.50	
153.00	LEP		1.74	
154.00	LEP		41.30	
155.00	LEP		135.00	
156.00	LEP		106.00	
157.00	LEP		146.00	
158.00	LEP		174.00	
159.00	LEP		4.36	
160.00	LEP		0.26	
160.93	LEP		8.20	

.

BOX LOG

HOLE: RAU-09-48

BOX	FROM (m)	TO (m)
1	3.76	8.97
2	8.97	12.73
3	12.73	16.50
4	16.50	20.73
5	20.73	25.00
6	25.00	29.18
7	29.18	33.00
8	33.00	37.49
9	37.49	42.06
10	42.06	55.47
11	55.47	58.68
12	58.68	62.58
13	62.58	66.44
14	66.44	69.68
15	69.68	74.48
16	74.48	78.64
17	78.64	82.20
18	82.20	86.04
19	86.04	90.25
20	90.25	93.88
21	93.88	98.45
22	101.84	107.17
23	107.17	112.97
24	112.97	118.26
25	118.26	120.11
26	120.11	136.63
27	136.63	144.40
28	144.40	149.79
29	149.79	155.43
30	155.43	160.93
	160.93	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+500W

HOLE: Rau-09-49
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528283	7119526	1500	306.33

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-70	compass				

Core size: BTW
Casing depth: 7.62 (m) out

Drilling dates: August 12 - 16, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.90	2.90	OVB	
2.90	4.00	1.10	LST	Rubbly
4.00	12.94	8.94	VOL	Altered
12.94	129.44	116.50	LST	Fossiliferous
129.44	142.69	13.25	LST	Altered
142.69	156.84	14.15	VOL	Altered
156.84	162.75	5.91	LST	Fault
162.75	252.6	89.85	LST	Fossiliferous
252.6	267	14.40	LEP	Volcaniclastic
267	306.32	39.32	DOL	Brecciated

SAMPLES	
Numbers:	H885550-H885581, H885722-H885734
	Batches 39, 40, 44, 45
Total:	45
Date sent:	
Certificate:	VA09088876, VA09090674, VA09094231
	VA09098345

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-49

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.90	2.90	OVB																			
2.90	4.00	1.10	LST	RBL																		Poorly recovered limestone rubble, with moderate alteration from 3.05-4.00 m (but only 3 cm of core occurs).
4.00	12.94	8.94	VOL	ALT	FO	FO	25					ms										Light to medium yellow-orange brown highly foliated strongly altered volcaniclastic. Within there are intervals of light grey limestone with stringers of the yellow-orange-clay filling them. Foliation occurs at 25 deg to CA. Within the unit 25% LST, 75% VOL. The main interval in which limestone occurs is from 9.45-10.36 m. There is a gradual lower contact with thin horizons of altered volcaniclastic within the limestone.
12.94	129.44	116.50	LST	FOS																		Medium grey fossiliferous limestone with weak to strong structural deformation. Ca +/- Qz veins cut the limestone. Two 5 cm Qz +/- Ca veins cut the limestone at 65 deg to CA. The outer 1.5 cm on either edge is Ca, while the middle is Qz. Both are quite coarse grained. Crinoid stem fragments occur. Weak to fair overall. Generally 2-4 mm in diameter.
						FO	20															12.94-24.99 m: Weak brecciation of the limestone occurs. Clasts are angular to sub-angular and 0.5-2 cm in diameter. Strong (but irregular) structural fabric occurs from 18.15-21.00 m at 20 deg to CA. The matrix of the breccia is not Ca, more like a slightly darker limestone.
																						24.99-29.66 m: More fossiliferous limestone with less obvious structural foliation.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						29.66-54.00 m: Moderate to weak crackle brecciation of the limestone. The brecciation ranges from non-existent to moderate with angular dark clasts and lighter limestone matrix. 40.30-42.00 m is a darker strain mosaic texture.
						FO	40															48.45-56.08 m: Brecciated with large, slightly siltier, more tan grey in colour.
																						56.08-57.00 m: Dark grey, more shaley foliated layers.
						FO	58															57.00-69.77 m: Light grey limestone, with thin wispy bands (FO?) of darker grey. Foliaform wisps are irregular and sometimes deformed around 1-5 mm augen like clusters of calcareous material. Between ~65 and 68 m, two planar orientations for these dark wispy bands are observed. Throughout interval, and especially after ~ 69 m, up to 3-4 mm Ca veinlets cross-cut at various angles.
						FO	45															
						FO	75															
						FO	40															69.77-83.02 m: Limestone takes on a more mosaic brecciation texture. Generally very fine Ca filled fractures cut the limestone, but in a few areas there is a coarse mosaic textured breccia within which there are angular clasts which are displaces by up to 1 cm by a Ca matrix. Based on the texture visible within the clasts they are pretty much in place with no dramatic rotation of displacement from one another. Dominant fracture orientation is 40 and 60 deg to CA. Original foliation runs at 40 deg to CA. Thicker Qz +/- Ca veins up to 1 cm in diameter cut the core at 30 deg to CA. From 78.35-80.47 m, siltier bands occur within the limestone. They are slightly darker grey and form a somewhat mottled

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FR	40	160														camo texture. Within this area slightly concoidal, knobbly calcite structures (fossils?) up to 3 cm long and 0.5 cm wide - a photo has been taken.
						FR	60															
						VN	30	170														
																						83.02-110.37 m: Increase in the concentration of crinoid stem fragments (up to fair to moderate). Overall the zone appears to be higher strain. The structural fabric appears more 'fluid' and many of the crinoids are broken up (could be per-deformation - high energy depositional environment.)
						BD	70															In two locations - 85.75-85.93 m and 87.10-87.37 m, strong crenulation cleavage texture overprints light/dark banding within the limestone.
						FO	45	30														
						BD	70															110.37-118.40 m: Strongly fossiliferous - gritty looking rather massive limestone with very faint bedding at 70 deg to CA. Thin Ca filled fractures occur at 45 deg to CA.
						FR	45	55														
						FO	60															118.40-129.44 m: Strongly foliated medium to dark grey limestone with weak to fair concentration of crinoid stem fragments. Within there are slightly graphitic.
129.44	142.69	13.25	LST	ALT																		Fairly to strongly altered limestone. Colour varies from orange-grey to yellow-orange-brown. Within there are thin moderate interlayers of volcaniclastic.
						BD	60					f										129.44-133.84 m: Weak to fair alteration of limestone with bedding at 60 deg to CA. Fizzes strongly with acid. Becomes slightly more altered near the bottom - more of a dark red-brown colour.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	60															133.84-138.45 m: Medium blue-green slightly altered volcaniclastic (?) with white regularly banded Ca veins at 60 deg to CA, as well as strongly oxidised dark red-brown stringer fracture fill at 55 deg to CA. This area fizzes only weakly with acid, except where the Ca bands occur. Overall the interval is quite soft.
						FR	55															
						FO	50															138.45-142.69 m: Spotted, strongly calcareous, highly altered limestone (?) Yellow-orange-brown in colour. FO runs at 50 deg to CA. (COLOUR - 10YR 5/6 - yellowish brown.)
142.69	156.84	14.15	VOL	ALT	FO	FO	55					s										Highly altered volcaniclastic. Quite fissile texture. Yellow-orange-brown colour. Does not fizz with acid. FO runs at 55 deg to CA. Almost clay in some areas.
																						153.45-156.84 m: Less altered volcaniclastic with strong structural foliation at 60 deg to CA. Green-yellow in colour.
156.84	162.75	5.91	LST	FLT	BX	FO	40															Possible fault zone (?) Cemented limestone breccia with zones of strong carbonate alteration (medium red-brown in colour). Clasts within the breccia are angular. Unbrecciated areas show a strong foliation at 40 deg to CA. Clasts within some zones of the breccia are quite variable in composition and texture.
162.75	267.00	104.25	LST	FOS	BN	BD	70															Medium grey slightly fossiliferous banded limestone with a strong structural fabric and zones of marbleization. True bedding is difficult to distinguish from the foliation. The structural foliation has a fluid texture with wispy bands and deflection around augen-like calcite rich masses (some of which show deformation tails) - as well as deflection around perfectly preserved crinoid stem fragments. Foliation occurs at 55 deg to CA. Bedding occurs in a few measurable spots at 70 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	55								w							162.75-172.21 m: The texture appears very distorted and at times quite faint. Oxidized pyrite sub-hedral to euhedral crystals up to 0.3 cm occur weakly scattered.
				ALT		FO	80						MBL	ms								177.21-191.98 m: The limestone no longer contains pyrite. It also becomes increasingly marbleized with a sugary re-crystallized appearance and a fading of colour and texture. Foliation gradually steepens to 80 deg to CA.
																						181.36-284.30 m: The marbleization is very patchy looking. There are irregular/structurally deformed white marble patches with deformed medium grey limestone between. The crinoid stem fragments are mostly broken up, but a few complete ones do occur. The texture looks a bit like marble cheese. (Photo taken)
																						184.30-191.98 m: The marbleization is more isolated within 30 cm zones. FO runs at 70 deg to CA, with small 2-4 mm crinoids acting like augens deflecting the deformation.
																						191.98-206.40 m: More regularly bedded limestone with moderate concentration of 0.2-0.4 cm diameter intact crinoid stem fragments. Bedding appears at the same angle to the foliation.
																						206.40-212.25 m: Strongly marbleized banded light and dark grey limestone. Banding is non-continuous - more whispy. Rare crinoid stem fragments occur, and are slightly deformed by the structural foliation at 60 deg to CA.
																						212.25-213.06 m: White marble with occasional dark grey bands and a slight orange tint.
																						217.17-229.87 m: White marble with a slight orange tint. Occasional thin bands of medium grained pyrite crystals that occur at 60 deg to CA. A few small gouge zones amongst otherwise competent marble.
																						220.95-221.15 m: Greyish brown clay gouge with angular marble fragments

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															t							221.80-222.50 m: Light medium tan-orange/brown clay with small gritty LST fragments
																						222.50-224.03 m: Altered tan brown marble/LST zone with remnant Py (<2%) in crosscutting calcite veins at 40 degrees TCA
						BD	80															229.87-241.92 m: Grey, interbedded fossiliferous LST (80%) and dark grey black calcareous shale. In the LST, up to 10% crinoids usually not intact (broken fragments). Weak irregular banding, with only few crosscutting veins. Weak pyrite replacing calcite in patches and foliaform wisps.
						BD	85								w		t					242.92-250.20 m: Mostly weakly bedded dark grey to black shale (90%) with fossiliferous LST (10%). Thin fractures with Ca, 1-3mm thick, sometimes offset by bedding planes. Core quite broken along bedding planes, which are often graphitic. Py replacing Ca in beds, and increases to fair towards end of interval. (248.60 m onwards) Also at this point some trace pyrrhotite is associated with pyrite.
															w		w					250.20-252.60 m: medium to dark grey silty dolomite interbedded. Plasticy appearance.
															w		f					250.20-250.32 m: Qz+/-DOL vein w/patchy and fracture fill Py/Po. Also later fractures with Py and Po.
															w		f					250.20- 250.75 m: Increased Po, makes the rock more magnetic
															f		t					252.60- 265.52 m: light to medium grey, massive, gritty, sparkly LST w/finely DI Py +/- Po. Near 262, some GY silty interbeds.
																						259.30 m: Ca veinlet 1-2cm thick with coarse Py, minor rust.
															f							265.52-267.00 m: Gradual transition into dark grey to black, banded shale, variably brecciated and containing irregular patchy calcite replaced by pyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
267.00	306.32	39.32	DOL		BX										w							Light and dark grey, crackle to heavily brecciated dolomite. Quite massive, with stringers, blebs, and disseminations of Py.
						FO	70															273.10- 273.75 m: Increased Py mineralization (still <5%). Within the dolomite there is a dark grey botryoidal to amorphous to crystalline mineral (2-3%). Weak remnant foliation occurs at 70 deg at deg to CA at 280.75m.
																						288.60- 288.80 m: Rock is slightly decomposed with a sugary texture and yellowish colour.
																						294.80- 295.00 m: slightly banded with black layers forming stylolites at 70 deg to CA.
																						298.52- 298.80 m: sharp, irregular, contact into strange unit. Seems like a breccia of some sort with quite homogenous 0.5-1mm subangular square to rhombic crystals/clasts? Dolomite? Edge of unit has 2-5mm stringer of fine grey material. Fractures in dolomite within 1 m of this unit have minor orange-yellow coating, but otherwise surrounding rock seems the same.
																						300.30-300.50 m: Broken, crumbly yellowish-tan gouge region with dolomite fragments.
																						303.00-306.32 m: More white in colour, only slightly crackled with blue/grey on fractures/matrix.
																						306.32 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-49

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
2.90	3.05	0.15	0.15	100	0.00	0	VW	HW	
3.05	4.57	1.52	0.14	9	0.00	0	VW	HW	
4.57	6.10	1.53	1.00	65	0.00	0	VW	HW	
6.10	7.16	1.06	1.03	97	0.00	0	VW	HW	
7.16	7.77	0.61	0.53	87	0.00	0	VW	HW	
7.77	8.53	0.76	0.52	68	0.00	0	VW	HW	
8.53	9.14	0.61	0.58	95	0.00	0	VW	HW	
9.14	10.67	1.53	1.53	100	1.09	71	VW	HW	
10.67	12.04	1.37	1.16	85	0.21	15	VW	HW	
12.04	14.33	2.29	1.29	56	0.58	25	VW	HW	
14.33	15.85	1.52	1.38	91	1.16	76	MS	SW	
15.85	17.37	1.52	1.52	100	1.40	92	MS	FR	
17.37	18.90	1.53	1.53	100	1.53	100	MS	FR	
18.90	20.42	1.52	1.52	100	1.52	100	MS	FR	
20.42	21.95	1.53	1.53	100	1.53	100	MS	FR	
21.95	23.47	1.52	1.31	86	1.31	86	MS	FR	
23.47	24.99	1.52	1.43	94	1.22	80	MS	FR	
24.99	26.06	1.07	1.07	100	0.95	89	MS	FR	
26.06	27.43	1.37	1.37	100	1.37	100	MS	FR	
27.43	28.96	1.53	1.45	95	1.45	95	MS	FR	
28.96	30.48	1.52	1.50	99	1.07	70	MS	FR	
30.48	32.00	1.52	1.52	100	1.52	100	MS	FR	
32.00	33.53	1.53	1.53	100	0.92	60	MS	FR	
33.53	35.05	1.52	1.52	100	0.91	60	MS	FR	
35.05	36.58	1.53	1.53	100	1.53	100	MS	FR	
36.58	39.01	2.43	2.12	87	1.87	77	MS	FR	
39.01	41.15	2.14	1.99	93	1.99	93	MS	FR	
41.15	44.20	3.05	3.05	100	2.82	92	MS	FR	
44.20	47.24	3.04	2.88	95	1.70	56	MS	FR	
47.24	47.40	0.16	0.13	81	0.00	0	MS	FR	
47.40	50.29	2.89	2.89	100	2.60	90	MS	FR	
50.29	53.04	2.75	2.69	98	1.23	45	MS	FR	
53.04	56.08	3.04	3.03	100	3.03	100	MS	FR	
56.08	59.59	3.51	3.48	99	2.60	74	MS	FR	
59.59	62.33	2.74	2.74	100	2.32	85	MS	FR	
62.33	65.53	3.20	3.00	94	2.24	70	MS	FR	
65.53	67.21	1.68	1.68	100	1.35	80	MS	FR	
67.21	69.19	1.98	1.92	97	0.49	25	MS	FR	
69.19	72.24	3.05	2.95	97	2.59	85	MS	FR	
72.24	74.68	2.44	2.44	100	2.35	96	MS	FR	
74.68	77.72	3.04	2.91	96	2.82	93	MS	FR	
77.72	80.47	2.75	2.62	95	2.32	84	MS	FR	
80.47	81.53	1.06	1.03	97	1.00	94	MS	FR	
81.53	81.99	0.46	0.46	100	0.00	0	MS	FR	
81.99	83.82	1.83	1.82	99	0.86	47	MS	FR	
83.82	86.87	3.05	2.97	97	2.53	83	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
86.87	89.61	2.74	2.54	93	1.42	52	MS	FR	
89.61	92.66	3.05	2.21	72	1.86	61	MS	FR	
92.66	95.71	3.05	3.05	100	2.94	96	MS	FR	
95.71	97.84	2.13	2.04	96	1.67	78	MS	FR	
97.84	100.58	2.74	2.67	97	2.58	94	MS	FR	
100.58	103.63	3.05	2.98	98	2.69	88	MS	FR	
103.63	106.07	2.44	2.35	96	2.28	93	MS	FR	
106.07	106.98	0.91	0.91	100	0.91	100	MS	FR	
106.98	109.73	2.75	2.68	97	2.42	88	MS	FR	
109.73	112.78	3.05	2.93	96	2.86	94	MS	FR	
112.78	115.82	3.04	3.04	100	2.65	87	MS	FR	
115.82	118.87	3.05	3.03	99	2.62	86	MS	FR	
118.87	121.92	3.05	3.00	98	1.75	57	MS	FR	
121.92	124.97	3.05	3.05	100	2.40	79	MS	FR	
124.97	128.01	3.04	3.05	100	1.98	65	MS	MW	
128.01	129.54	1.53	1.53	100	2.19	143	MS	MW	
129.54	132.59	3.05	2.92	96	2.34	77	MS	MW	
132.59	134.87	2.28	1.85	81	0.97	43	W	SW	
134.87	137.92	3.05	3.05	100	2.74	90	MS	MW	
137.92	140.97	3.05	3.05	100	2.65	87	W	MW	
140.97	144.48	3.51	2.88	82	1.67	48	W	MW	
144.48	146.00	1.52	0.90	59	0.00	0	W	HW	
146.00	147.83	1.83	1.45	79	0.57	31	W	MW	
147.83	150.88	3.05	1.02	33	0.00	0	W	MW	
150.88	153.01	2.13	1.25	59	0.19	9	VW	MW	
153.01	154.23	1.22	1.07	88	0.16	13	VW	MW	
154.23	156.97	2.74	0.92	34	0.30	11	W	HW	
156.97	158.50	1.53	1.50	98	0.90	59	W	HW	
158.50	161.54	3.04	2.42	80	1.75	58	W	MW	
161.54	164.59	3.05	3.05	100	2.37	78	MS	MW	
164.59	166.57	1.98	1.82	92	0.77	39	MS	MW	
166.57	169.16	2.59	2.59	100	2.31	89	MS	FR	
169.16	172.21	3.05	2.82	92	2.65	87	MS	FR	
172.21	175.26	3.05	2.96	97	1.53	50	MS	FR	
175.26	178.31	3.05	3.05	100	2.78	91	MS	FR	
178.31	181.36	3.05	3.05	100	2.93	96	MS	FR	
181.36	184.40	3.04	2.99	98	2.50	82	MS	FR	
184.40	187.45	3.05	2.93	96	2.74	90	MS	FR	
187.45	190.50	3.05	2.09	69	1.70	56	MS	FR	
190.50	193.55	3.05	3.05	100	2.51	82	MS	FR	
193.55	196.60	3.05	3.05	100	2.90	95	MS	FR	
196.60	199.64	3.04	3.00	99	2.10	69	MS	FR	
199.64	202.69	3.05	3.05	100	2.13	70	MS	FR	
202.69	205.74	3.05	3.05	100	2.70	89	MS	FR	
205.74	208.79	3.05	3.05	100	2.74	90	MS	FR	
208.79	211.84	3.05	2.96	97	1.57	51	MS	FR	
211.84	214.88	3.04	3.04	100	2.68	88	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
214.88	217.93	3.05	3.05	100	2.89	95	MS	FR	
217.93	220.98	3.05	2.84	93	1.40	46	MS	FR	
220.98	224.03	3.05	2.35	77	0.13	4	MS	SW	
224.03	225.86	1.83	1.14	62	0.25	14	MS	FR	
225.86	227.08	1.22	1.22	100	0.81	66	MS	FR	
227.08	230.12	3.04	2.65	87	1.23	40	MS	FR	
230.12	233.17	3.05	2.95	97	2.63	86	MS	FR	
233.17	236.22	3.05	3.05	100	2.78	91	MS	FR	
236.22	239.27	3.05	2.98	98	2.58	85	MS	FR	
239.27	242.31	3.04	2.70	89	1.19	39	MS	FR	
242.31	245.36	3.05	3.05	100	2.71	89	MS	FR	
245.36	248.41	3.05	2.98	98	0.62	20	MS	FR	
248.41	251.46	3.05	3.05	100	1.70	56	MS	FR	
251.46	254.51	3.05	2.87	94	2.27	74	MS	FR	
254.51	257.56	3.05	3.05	100	2.80	92	MS	FR	
257.56	260.60	3.04	2.96	97	2.87	94	MS	FR	
260.60	263.65	3.05	3.02	99	2.94	96	MS	FR	
263.65	266.70	3.05	3.05	100	2.75	90	MS	FR	
266.70	269.75	3.05	3.01	99	2.64	87	MS	FR	
269.75	272.80	3.05	2.85	93	2.55	84	MS	FR	
272.80	275.84	3.04	3.04	100	2.52	83	MS	FR	
275.84	278.89	3.05	2.87	94	2.87	94	MS	FR	
278.89	281.94	3.05	3.05	100	2.67	88	MS	FR	
281.94	284.99	3.05	3.05	100	2.70	89	MS	FR	
284.99	288.04	3.05	3.05	100	1.28	42	MS	FR	
288.04	291.08	3.04	3.04	100	2.00	66	MS	FR	
291.08	294.13	3.05	2.91	95	1.89	62	MS	FR	
294.13	297.08	2.95	2.87	97	2.72	92	MS	FR	
297.08	298.40	1.32	1.18	89	0.25	19	MS	FR	
298.40	300.23	1.83	1.77	97	1.02	56	MS	FR	
300.23	301.14	0.91	0.76	84	0.20	22	MS	MW	
301.14	304.19	3.05	3.05	100	2.89	95	MS	FR	
304.19	306.32	2.13	2.13	100	1.85	87	MS	FR	
	306.32	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-49

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
2.90	4.00	1.10	0.17	15	H885550	0.5	39	<0.01	0.13	93	0.37	
4.00	6.10	2.10	1.05	50	H885551	1.0	39	<0.01	0.49	43	0.19	
6.10	7.77	1.67	1.50	90	H885552	2.0	39	<0.01	0.36	32	0.17	
7.77	9.45	1.68	1.40	83	H885554	2.0	40	<0.01	0.19	35	0.52	
9.45	10.36	0.91	0.87	96	H885555	2.0	40	0.01	0.17	15	0.28	
10.36	12.80	2.44	1.71	70	H885556	2.5	40	<0.01	0.20	10	0.02	
12.80	13.70	0.90	0.90	100	H885557	1.5	40	<0.01	0.11	5	<0.01	
13.70	15.85	2.15	1.95	91	H885558	3.5	40	<0.01	0.04	<5	<0.01	
15.85	18.90	3.05	3.05	100	H885559	5.0	40	0.01	0.05	15	<0.01	
124.97	127.01	2.04	1.95	96	H885560	4.0	40	<0.01	0.08	6	<0.01	
127.01	129.44	2.43	2.43	100	H885561	5.0	40	<0.01	0.06	8	<0.01	
129.44	132.00	2.56	2.56	100	H885562	5.0	40	<0.01	0.10	16	<0.01	
132.00	133.84	1.84	1.38	75	H885563	2.5	40	<0.01	0.21	27	0.40	
133.84	136.73	2.89	2.87	99	H885564	5.0	40	<0.01	0.18	4	<0.01	
136.73	138.45	1.72	1.67	97	H885566	3.0	40	<0.01	0.25	<5	<0.01	
138.45	140.97	2.52	2.52	100	H885567	4.0	40	<0.01	0.02	5	0.02	
140.97	142.69	1.72	1.66	97	H885568	2.5	40	<0.01	0.03	<5	0.01	
142.69	144.48	1.79	1.15	64	H885569	2.0	40	<0.01	0.08	54	<0.01	
144.48	146.00	1.52	0.96	63	H885570	1.0	40	<0.01	0.17	44	<0.01	
146.00	147.83	1.83	1.53	84	H885571	2.5	40	<0.01	0.15	17	<0.01	
147.83	150.88	3.05	0.88	29	H885572	1.5	40	<0.01	0.17	21	<0.01	
150.88	153.45	2.57	1.75	68	H885573	2.5	40	<0.01	0.18	22	0.03	
153.45	154.23	0.78	0.57	73	H885574	1.0	40	<0.01	0.22	21	<0.01	
154.23	156.84	2.61	0.81	31	H885575	1.0	40	<0.01	<0.01	25	0.04	
156.84	158.50	1.66	1.63	98	H885576	2.5	40	<0.01	0.11	35	0.07	
158.50	160.00	1.50	1.40	93	H885577	2.0	40	0.01	0.19	37	0.07	
160.00	162.75	2.75	2.34	85	H885579	3.0	40	<0.01	0.12	27	0.02	
162.75	164.59	1.84	1.84	100	H885580	3.0	40	<0.01	0.02	11	0.03	
250.20	252.60	2.40	2.39	100	H885722	4.5	44	<0.01	0.08	120	1.52	
252.60	254.61	2.01	1.75	87	H885723	3.0	44	0.01	<0.01	49	3.32	
254.61	257.56	2.95	2.95	100	H885724	5.0	44	<0.01	<0.01	91	0.63	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
257.56	260.60	3.04	2.95	97	H885726	5.0	44	<0.01	<0.01	59	2.37	
260.60	263.65	3.05	3.05	100	H885727	5.0	44	<0.01	<0.01	29	1.57	
263.65	265.52	1.87	1.82	97	H885729	3.0	44	0.01	0.01	96	2.01	
265.52	267.00	1.48	1.48	100	H885731	3.0	44	0.03	0.40	300	6.49	
267.00	270.00	3.00	2.98	99	H885732	5.5	44	0.01	0.16	464	3.20	
270.00	273.10	3.10	2.99	96	H885733	5.0	45	0.01	0.13	186	1.64	
273.10	275.84	2.74	2.67	97	H885734	4.5	45	0.01	0.06	24	0.78	
-	-	-			H885553	0.3	40	5.55	0.26	37900	481.00	Standard R-3
-	-	-			H885565	4.0	40	<0.01	0.16	<5	0.02	Blank
-	-	-			H885581	0.3	40	5.44	0.20	37400	479.00	Standard R3
254.61	257.56	2.95	2.95	100	H885725	2.5	44	<0.01	<0.01	68	0.66	Duplicate
-	-	-			H885728	0.3	44	0.41	0.91	5330	104.00	Standard R-1
-	-	-			H885730	4.0	44	<0.01	<0.01	<5	0.09	Blank
158.50	160.00	1.50	1.40	93	H885578	1.0	40	<0.01	0.19	34	0.06	Duplicate

BOX DENSITY LOG

HOLE: RAU-09-49

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
17	91.83	97.3	4.2	LST		4.46	42	3.08	
26	142.17	150.88	4.2	VOL		4.36	35	2.63	
32	181.36	187.25	4.2	LST		5.72	41	2.35	
45	255.53	261.16	4.2	LST		5.61	45	2.63	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-49

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3.00	LST	RBL	0.28	
4.00	LST	RBL	1.45	
5.00	VOL	ALT	0.77	
6.00	VOL	ALT	0.18	
7.00	VOL	ALT	0.14	
8.00	VOL	ALT	0.16	
9.00	VOL	ALT	0.16	
10.00	VOL	ALT	0.18	
11.00	VOL	ALT	0.94	
12.00	VOL	ALT	2.31	
13.00	LST	FOS	0.08	
14.00	LST	FOS	0.14	
15.00	LST	FOS	0.24	
16.00	LST	FOS	0.04	
17.00	LST	FOS	0.04	
18.00	LST	FOS	0.24	
19.00	LST	FOS	0.26	
20.00	LST	FOS	0.04	
21.00	LST	FOS	0.04	
22.00	LST	FOS	0.08	
23.00	LST	FOS	0.12	
24.00	LST	FOS	0.04	
25.00	LST	FOS	0.06	
26.00	LST	FOS	0.04	
27.00	LST	FOS	0.20	
28.00	LST	FOS	0.06	
29.00	LST	FOS	0.04	
30.00	LST	FOS	0.18	
31.00	LST	FOS	0.08	
32.00	LST	FOS	0.02	
33.00	LST	FOS	0.12	
34.00	LST	FOS	0.04	
35.00	LST	FOS	0.06	
36.00	LST	FOS	0.10	
37.00	LST	FOS	0.06	
38.00	LST	FOS	0.28	
39.00	LST	FOS	0.02	
40.00	LST	FOS	0.04	
41.00	LST	FOS	0.04	
42.00	LST	FOS	0.08	
43.00	LST	FOS	0.02	
44.00	LST	FOS	0.08	
45.00	LST	FOS	0.04	
46.00	LST	FOS	0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	LST	FOS	0.14	
48.00	LST	FOS	0.04	
49.00	LST	FOS	0.16	
50.00	LST	FOS	0.30	
51.00	LST	FOS	0.04	
52.00	LST	FOS	0.10	
53.00	LST	FOS	0.08	
54.00	LST	FOS	0.00	
55.00	LST	FOS	0.04	
56.00	LST	FOS	0.02	
57.00	LST	FOS	0.06	
58.00	LST	FOS	0.02	
59.00	LST	FOS	0.10	
60.00	LST	FOS	0.02	
61.00	LST	FOS	0.02	
62.00	LST	FOS	0.04	
63.00	LST	FOS	0.02	
64.00	LST	FOS	0.08	
65.00	LST	FOS	0.36	
66.00	LST	FOS	0.06	
67.00	LST	FOS	0.02	
68.00	LST	FOS	0.26	
69.00	LST	FOS	0.00	
70.00	LST	FOS	0.04	
71.00	LST	FOS	0.02	
72.00	LST	FOS	0.02	
73.00	LST	FOS	0.00	
74.00	LST	FOS	0.04	
75.00	LST	FOS	0.00	
76.00	LST	FOS	0.00	
77.00	LST	FOS	0.02	
78.00	LST	FOS	0.02	
79.00	LST	FOS	0.00	
80.00	LST	FOS	0.00	
81.00	LST	FOS	0.00	
82.00	LST	FOS	0.02	
83.00	LST	FOS	0.02	
84.00	LST	FOS	0.00	
85.00	LST	FOS	0.02	
86.00	LST	FOS	0.02	
87.00	LST	FOS	0.00	
88.00	LST	FOS	0.00	
89.00	LST	FOS	0.02	
90.00	LST	FOS	0.00	
91.00	LST	FOS	0.00	
92.00	LST	FOS	0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	LST	FOS	0.00	
94.00	LST	FOS	0.04	
95.00	LST	FOS	0.02	
96.00	LST	FOS	0.04	
97.00	LST	FOS	0.00	
98.00	LST	FOS	0.00	
99.00	LST	FOS	0.00	
100.00	LST	FOS	0.00	
101.00	LST	FOS	0.02	
102.00	LST	FOS	0.00	
103.00	LST	FOS	0.02	
104.00	LST	FOS	0.02	
105.00	LST	FOS	0.00	
106.00	LST	FOS	0.02	
107.00	LST	FOS	0.04	
108.00	LST	FOS	0.02	
109.00	LST	FOS	0.04	
110.00	LST	FOS	0.02	
111.00	LST	FOS	0.04	
112.00	LST	FOS	0.04	
113.00	LST	FOS	0.02	
114.00	LST	FOS	0.04	
115.00	LST	FOS	0.00	
116.00	LST	FOS	0.02	
117.00	LST	FOS	0.04	
118.00	LST	FOS	0.02	
119.00	LST	FOS	0.04	
120.00	LST	FOS	0.02	
121.00	LST	FOS	0.04	
122.00	LST	FOS	0.04	
123.00	LST	FOS	0.04	
124.00	LST	FOS	0.04	
125.00	LST	FOS	0.04	
126.00	LST	FOS	0.04	
127.00	LST	FOS	0.02	
128.00	LST	FOS	0.04	
129.00	LST	FOS	0.06	
130.00	LST	ALT	0.04	
131.00	LST	ALT	0.04	
132.00	LST	ALT	0.20	
133.00	LST	ALT	0.51	
134.00	LST	ALT	0.26	
135.00	LST	ALT	0.34	
136.00	LST	ALT	0.32	
137.00	LST	ALT	0.28	
138.00	LST	ALT	0.30	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139.00	LST	ALT	0.16	
140.00	LST	ALT	0.10	
141.00	LST	ALT	0.14	
142.00	LST	ALT	0.20	
143.00	LST	ALT	0.08	
144.00	LST	ALT	0.06	
145.00	LST	ALT	0.14	
146.00	LST	ALT	0.10	
147.00	LST	ALT	0.26	
148.00	LST	ALT	0.08	
149.00	LST	ALT	0.16	
150.00	LST	ALT	0.06	
151.00	LST	ALT	0.08	
152.00	LST	ALT	0.04	
153.00	LST	ALT	0.16	
154.00	LST	ALT	0.22	
155.00	LST	ALT	0.08	
156.00	LST	ALT	0.10	
157.00	LST		0.06	
158.00	LST		0.08	
159.00	LST		0.08	
160.00	LST		0.08	
161.00	LST		0.06	
162.00	LST		0.10	
163.00	LST	FOS	0.08	
164.00	LST	FOS	0.06	
165.00	LST	FOS	0.02	
166.00	LST	FOS	0.04	
167.00	LST	FOS	0.04	
168.00	LST	FOS	0.02	
169.00	LST	FOS	0.02	
170.00	LST	FOS	0.02	
171.00	LST	FOS	0.02	
172.00	LST	FOS	0.02	
173.00	LST	FOS	0.04	
174.00	LST	FOS	0.02	
175.00	LST	FOS	0.02	
176.00	LST	FOS	0.04	
177.00	LST	FOS	0.02	
178.00	LST	FOS	0.02	
179.00	LST	FOS	0.08	
180.00	LST	FOS	0.06	
181.00	LST	FOS	0.02	
182.00	LST	FOS	0.04	
183.00	LST	FOS	0.04	
184.00	LST	FOS	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
185.00	LST	FOS	0.12	
186.00	LST	FOS	0.22	
187.00	LST	FOS	0.12	
188.00	LST	FOS	0.04	
189.00	LST	FOS	0.04	
190.00	LST	FOS	0.10	
191.00	LST	FOS	0.02	
192.00	LST	FOS	0.12	
193.00	LST	FOS	0.02	
194.00	LST	FOS	0.04	
195.00	LST	FOS	0.06	
196.00	LST	FOS	0.04	
197.00	LST	FOS	0.02	
198.00	LST	FOS	0.06	
199.00	LST	FOS	0.08	
200.00	LST	FOS	0.20	
201.00	LST	FOS	0.36	
202.00	LST	FOS	0.12	
203.00	LST	FOS	0.06	
204.00	LST	FOS	0.08	
205.00	LST	FOS	0.10	
206.00	LST	FOS	0.10	
207.00	LST	FOS	0.06	
208.00	LST	FOS	0.04	
209.00	LST	FOS	0.18	
210.00	LST	FOS	0.06	
211.00	LST	FOS	0.04	
212.00	LST	FOS	0.04	
213.00	LST	FOS	0.45	
214.00	LST	FOS	0.02	
215.00	LST	FOS	0.08	
216.00	LST	FOS	0.12	
217.00	LST	FOS	0.12	
218.00	LST	FOS	0.02	
219.00	LST	FOS	0.04	
220.00	LST	FOS	0.06	
221.00	LST	FOS	0.02	
222.00	LST	FOS	0.04	
223.00	LST	FOS	0.04	
224.00	LST	FOS	0.02	
225.00	LST	FOS	0.55	
226.00	LST	FOS	0.04	
227.00	LST	FOS	0.06	
228.00	LST	FOS	0.06	
229.00	LST	FOS	0.04	
230.00	LST	FOS	0.32	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
231.00	LST	FOS	0.30	
232.00	LST	FOS	0.08	
233.00	LST	FOS	0.06	
234.00	LST	FOS	0.14	
235.00	LST	FOS	0.12	
236.00	LST	FOS	0.04	
237.00	LST	FOS	0.04	
238.00	LST	FOS	0.02	
239.00	LST	FOS	0.02	
240.00	LST	FOS	0.06	
241.00	LST	FOS	0.06	
242.00	LST	FOS	0.04	
243.00	LST	FOS	0.34	
244.00	LST	FOS	0.14	
245.00	LST	FOS	0.10	
246.00	LST	FOS	0.06	
247.00	LST	FOS	0.10	
248.00	LST	FOS	0.10	
249.00	LST	FOS	0.06	
250.00	LST	FOS	2.70	
251.00	LST	FOS	18.90	
252.00	LST	FOS	1.41	
253.00	LST	FOS	1.02	
254.00	LST	FOS	0.90	
255.00	LST	FOS	1.00	
256.00	LST	FOS	1.41	
257.00	LST	FOS	1.49	
258.00	LST	FOS	0.04	
259.00	LST	FOS	0.02	
260.00	LST	FOS	0.02	
261.00	LST	FOS	0.36	
262.00	LST	FOS	0.57	
263.00	LST	FOS	0.06	
264.00	LST	FOS	0.04	
265.00	LST	FOS	0.04	
266.00	LST	FOS	0.22	
267.00	LST	FOS	0.02	
268.00	DOL	BX	0.02	
269.00	DOL	BX	0.02	
270.00	DOL	BX	0.02	
271.00	DOL	BX	0.02	
272.00	DOL	BX	0.02	
273.00	DOL	BX	0.00	
274.00	DOL	BX	0.16	
275.00	DOL	BX	0.00	
276.00	DOL	BX	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
277.00	DOL	BX	0.02	
278.00	DOL	BX	0.04	
279.00	DOL	BX	0.02	
280.00	DOL	BX	0.02	
281.00	DOL	BX	0.02	
282.00	DOL	BX	0.04	
283.00	DOL	BX	0.02	
284.00	DOL	BX	0.02	
285.00	DOL	BX	0.02	
286.00	DOL	BX	0.02	
287.00	DOL	BX	0.00	
288.00	DOL	BX	0.20	
289.00	DOL	BX	0.00	
290.00	DOL	BX	0.10	
291.00	DOL	BX	0.00	
292.00	DOL	BX	0.02	
293.00	DOL	BX	0.04	
294.00	DOL	BX	0.04	
295.00	DOL	BX	0.02	
296.00	DOL	BX	0.02	
297.00	DOL	BX	0.02	
298.00	DOL	BX	0.04	
299.00	DOL	BX	0.04	
300.00	DOL	BX	0.02	
301.00	DOL	BX	0.02	
302.00	DOL	BX	0.04	
303.00	DOL	BX	0.02	
304.00	DOL	BX	0.04	
305.00	DOL	BX	0.00	
306.00	DOL	BX	0.02	

BOX LOG

HOLE: RAU-09-49

BOX	FROM (m)	TO (m)
1	2.90	9.25
2	9.25	15.08
3	15.08	20.42
4	20.42	26.27
5	26.27	31.91
6	31.91	37.15
7	37.15	43.05
8	43.05	48.53
9	48.53	53.81
10	53.81	59.42
11	59.42	64.83
12	64.83	70.15
13	70.15	75.83
14	75.83	81.44
15	81.44	86.75
16	86.75	91.83
17	91.83	97.30
18	97.30	103.05
19	103.05	108.55
20	108.55	114.30
21	114.30	119.92
22	119.92	125.45
23	125.45	131.94
24	131.94	136.73
25	136.73	142.17
26	142.17	150.88
27	150.88	158.59
28	158.59	164.59
29	164.59	170.29
30	170.29	175.86
31	175.86	181.36
32	181.36	187.25
33	187.25	192.71
34	192.71	198.36
35	198.36	204.05

BOX	FROM (m)	TO (m)
36	204.05	209.52
37	209.52	214.88
38	214.88	220.48
39	220.48	226.94
40	226.94	232.81
41	232.81	238.59
42	238.59	244.39
43	244.39	249.92
44	249.92	255.53
45	255.53	264.16
46	264.16	266.87
47	266.87	272.77
48	272.77	278.35
49	278.35	283.86
50	283.86	288.88
51	288.88	294.40
52	294.40	299.76
53	299.76	305.21
54	305.21	306.32
	306.32	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 10+300W

HOLE: Rau-09-50
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528296	7119275	1338	65.53

Contractor: Superior
Drill: Oxide (2)

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: (m) out

Drilling dates: August 15 - 18, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.61	3.61	OVB	
3.61	7.01	3.40	LST	Rubble
7.01	8.53	1.52	QZ	Rubble
8.53	11.00	2.47	OX	Clay rich
11.00	11.58	0.58	QZ	Rubble
11.58	57.4	45.82	DOL	Altered
57.4	65.53	8.13	LST	Fossiliferous

SAMPLES	
Numbers:	H885615-H885645
	Batches 41, 42
Total:	31
Date sent:	
Certificate:	VA09090673, VA09090672

COMMENTS

GEOLOGY LOG

HOLE: RAU-09-50

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.61	3.61	OVB																			
3.61	7.01	3.40	LST	RBL																		Very rubbly, poorly recovered medium grey limestone with slightly weathered surfaces. The rubble is very rounded. Minor small quartz rubble fragments occurs within.
7.01	8.53	1.52	QZ	RBL																		Poorly recovered bull quartz rubble up to 4 cm in diameter.
8.53	11.00	2.47	OX	CLY																		Medium orange-red-brown gritty clay with minor grit to pebble sized quartz fragments as well as limonite fragments. Recovery is very poor. The interval fizzes moderately with acid. (COLOUR: 7.5 YR 4/6 - strong brown).
11.00	11.58	0.58	QZ	RBL																		Rubbly bull quartz fragments up to 3 cm in diameter.
11.58	31.85	20.27	DOL	ALT								m			w							Medium tan/grey fluid collapse brecciated limestone with weak to moderate alteration of the carbonate. Overall quite rubbly limonite fragments occur within the rubble. Minor fine to medium grained sulphides occur weak overall, and strongly oxidized.
31.85	57.40	25.55	DOL	ALT											w							Variably altered fine to medium grained dolomite with medium to dark chocolate brown carbonate alteration. The texture of the white medium to coarse grained dolomite is still visible in some areas. Quartz zones also occur. Near the bottom of the interval the host becomes more of a dolomitized limestone. Mineralization appears to be more patchy than banded based on the nature of the oxide colouration, as well as the positioning of the oxidized sulphides. They are typically fine to medium grained sub-hedral disseminations.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						36.50-37.49 m: Angular to subangular bull quartz rubble occurs.
																						37.49-39.01 m: Abundant vuggy limonite rubble occurs, along with some more siderite fragments.
						BD	70															39.30 m: Possible relict banding at 70 deg to CA.
																						41.14-41.36 m: Well preserved medium to coarse grained white dolomite.
																						48.35-49.40 m: Two large patches of quartz occur within the altered dolomite.
						VN	30															51.80-57.40 m: Medium grey dolomitized limestone with moderately-strong crackle brecciation. There appears to be medium to coarse grained dolomite veins at 30 deg to CA. These veins contain medium to coarse grained dark brown oxidized sulphides.
57.40	65.53	8.13	LST	FOS		VN	20															Very strongly fossiliferous medium grey limestone with crinoid stem fragments, mostly well intact but occasionally broken up (10-15%). Contact with upper unit is sharp, but undefined because it is slightly rubble over 10-15 cm. This limestone unit resembles the highly fossiliferous limestone units in holes 29 and 30 (on the other side of the 'fault')
				ALT		VN	20															61.38-64.82 m: Becomes slightly altered by patchy green-orange-brown alteration with a slightly defined orientation at 20 deg to CA.
																						65.53 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: RAU-09-50

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.61	3.96	0.35	0.35	100	0.00	0	MW	MS	
3.96	5.49	1.53	0.27	18	0.00	0	MW	MS	
5.49	7.01	1.52	0.12	8	0.00	0	MW	MS	
7.01	8.53	1.52	0.12	8	0.00	0	MS	SW	
8.53	9.75	1.22	0.14	11	0.00	0	EW	SW	
9.75	11.58	1.83	0.28	15	0.00	0	EW	SW	
11.58	13.11	1.53	0.16	10	0.00	0	MS	MW	
13.11	14.63	1.52	0.02	1	0.00	0	MS	MW	
14.63	16.15	1.52	0.03	2	0.00	0	MS	MW	
16.15	17.68	1.53	0.46	30	0.00	0	MS	MW	
17.68	19.20	1.52	0.80	53	0.00	0	MS	MW	
19.20	20.73	1.53	0.42	27	0.00	0	MS	MW	
20.73	22.25	1.52	0.29	19	0.00	0	MS	MW	
22.25	23.77	1.52	0.35	23	0.00	0	MS	MW	
23.77	25.30	1.53	0.29	19	0.18	12	MS	MW	
25.30	26.82	1.52	0.29	19	0.00	0	MS	MW	
26.82	28.35	1.53	0.40	26	0.00	0	MS	MW	
28.35	29.87	1.52	0.76	50	0.00	0	MS	MW	
29.87	31.39	1.52	0.42	28	0.00	0	MS	MW	
31.39	32.92	1.53	0.95	62	0.00	0	MS	SW	
32.92	34.44	1.52	0.30	20	0.00	0	MS	SW	
34.44	35.97	1.53	0.43	28	0.00	0	MS	SW	
35.97	37.49	1.52	0.49	32	0.00	0	MS	SW	
37.49	39.01	1.52	0.32	21	0.00	0	MS	SW	
39.01	40.54	1.53	1.13	74	0.45	29	MS	SW	
40.54	42.06	1.52	1.33	87	0.77	51	MS	SW	
42.06	43.59	1.53	1.42	93	0.45	29	MS	SW	
43.59	45.11	1.52	1.13	74	0.17	11	MS	SW	
45.11	46.63	1.52	1.32	87	0.47	31	MS	SW	
46.63	48.16	1.53	1.44	94	0.97	63	MS	SW	
48.16	49.68	1.52	1.33	87	0.72	47	MS	SW	
49.68	51.21	1.53	0.75	49	0.00	0	MS	SW	
51.21	52.73	1.52	1.45	95	0.16	11	MS	SW	
52.73	54.25	1.52	0.90	59	0.16	11	MS	SW	
54.25	55.78	1.53	0.71	46	0.14	9	MS	SW	
55.78	57.30	1.52	1.03	68	0.35	23	MS	SW	
57.30	58.83	1.53	1.30	85	0.69	45	MS	SW	
58.83	60.35	1.52	1.52	100	0.71	47	MS	SW	
60.35	61.83	1.48	1.38	93	0.49	33	MS	SW	
61.83	63.40	1.57	0.90	57	0.32	20	MS	SW	
63.40	64.92	1.52	1.45	95	0.58	38	MS	SW	
64.92	65.53	0.61	0.58	95	0.45	74	MS	SW	
	65.53	E.O.H.							

SAMPLE LOG

HOLE: RAU-09-50

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.61	5.49	1.88	0.55	29	H885615	1.5	41	0.09	0.29	360	4.51	
8.53	9.75	1.22	0.25	20	H885616	0.5	41	0.35	8.51	25700	55.70	
9.75	11.58	1.83	0.37	20	H885617	1.0	41	0.25	1.83	6350	14.85	
11.58	13.11	1.53	0.23	15	H885619	0.5	41	0.24	0.55	942	7.18	
16.15	17.68	1.53	0.45	29	H885620	1.0	41	0.17	0.12	1900	2.53	
17.68	19.20	1.52	0.90	59	H885621	2.0	41	0.17	0.14	994	4.81	
19.20	22.25	3.05	0.78	26	H885622	2.0	41	0.09	0.24	643	3.30	
22.25	23.77	1.52	0.31	20	H885623	0.5	41	0.21	0.52	1340	13.55	
23.77	25.30	1.53	0.29	19	H885624	1.0	41	0.07	0.61	327	2.24	
25.30	26.82	1.52	0.32	21	H885625	1.0	42	0.16	0.41	1680	23.80	
26.82	29.87	3.05	1.18	39	H885626	4.0	42	0.06	0.14	304	1.46	
29.87	31.35	1.48	0.83	56	H885627	2.0	42	0.09	0.17	422	1.88	
31.35	32.92	1.57	0.56	36	H885628	2.0	42	0.16	0.26	1340	29.10	
32.92	34.44	1.52	0.25	16	H885629	1.0	42	0.12	0.48	879	31.20	
34.44	35.97	1.53	0.44	29	H885630	1.0	42	0.12	0.77	780	10.90	
35.97	37.49	1.52	0.56	37	H885631	1.0	42	0.17	0.94	803	66.80	
37.49	39.01	1.52	0.36	24	H885632	1.0	42	1.56	0.96	1490	605.00	
39.01	42.06	3.05	2.51	82	H885633	8.0	42	0.18	0.73	279	32.60	
42.06	45.11	3.05	2.54	83	H885635	8.0	42	0.07	5.96	442	97.50	
45.11	48.16	3.05	2.90	95	H885636	9.5	42	0.15	32.80	668	979.00	
48.16	49.68	1.52	1.40	92	H885637	4.5	42	0.04	7.08	253	58.00	
49.68	51.80	2.12	1.43	67	H885638	4.0	42	0.11	6.97	427	36.00	
51.80	54.25	2.45	0.77	31	H885639	5.5	42	0.01	0.24	34	1.76	
54.25	57.40	3.15	1.83	58	H885641	6.5	42	0.15	0.90	518	60.10	
57.40	60.35	2.95	2.82	96	H885642	10.0	42	0.05	0.05	36	1.63	
60.35	61.87	1.52	1.52	100	H885643	5.0	42	0.05	0.10	50	0.28	
61.87	64.00	2.13	1.52	71	H885644	5.5	42	0.05	0.61	360	1.81	
64.00	65.53	1.53	1.50	98	H885645	5.5	42	0.06	0.33	166	2.09	
-	-	-			H885618	0.2	41	0.49	0.93	6080	99.80	Standard R-1
39.01	42.06	3.05	2.51	82	H885634	4.0	42	0.10	0.76	349	43.10	Duplicate

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H885640	0.3	42	0.47	0.86	6350	100.50	Standard R-1

BOX DENSITY LOG

HOLE: RAU-09-50

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
4	39.41	43.96	6.12	DOL		4.2	41	1.51	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: RAU-09-50

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.00	LST	RBL	0.01	
5.00	LST	RBL	0.00	
6.00	LST	RBL	-	
7.00	LST	RBL	-	
8.00	QZ	RBL	0.00	
9.00	OX	CLY	-	
10.00	OX	CLY	0.45	
11.00	OX	CLY	0.00	
12.00	DOL	ALT	0.03	
13.00	DOL	ALT	0.01	
14.00	DOL	ALT	-	
15.00	DOL	ALT	-	
16.00	DOL	ALT	-	
17.00	DOL	ALT	0.05	
18.00	DOL	ALT	0.03	
19.00	DOL	ALT	0.06	
20.00	DOL	ALT	0.03	
21.00	DOL	ALT	0.05	
22.00	DOL	ALT	0.03	
23.00	DOL	ALT	0.15	
24.00	DOL	ALT	0.05	
25.00	DOL	ALT	0.05	
26.00	DOL	ALT	0.03	
27.00	DOL	ALT	0.11	
28.00	DOL	ALT	0.01	
29.00	DOL	ALT	0.03	
30.00	DOL	ALT	0.06	
31.00	DOL	ALT	0.06	
32.00	DOL	ALT	0.57	
33.00	DOL	ALT	0.21	
34.00	DOL	ALT	0.08	
35.00	DOL	ALT	0.20	
36.00	DOL	ALT	0.08	
37.00	DOL	ALT	0.11	
38.00	DOL	ALT	0.13	
39.00	DOL	ALT	0.10	
40.00	DOL	ALT	0.16	
41.00	DOL	ALT	0.15	
42.00	DOL	ALT	0.20	
43.00	DOL	ALT	0.15	
44.00	DOL	ALT	0.16	
45.00	DOL	ALT	0.23	
46.00	DOL	ALT	0.20	
47.00	DOL	ALT	0.35	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
48.00	DOL	ALT	0.25	
49.00	DOL	ALT	0.16	
50.00	DOL	ALT	0.16	
51.00	DOL	ALT	0.10	
52.00	DOL	ALT	0.16	
53.00	DOL	ALT	0.05	
54.00	DOL	ALT	0.01	
55.00	DOL	ALT	0.06	
56.00	DOL	ALT	0.13	
57.00	DOL	ALT	0.33	
58.00	LST	FOS	0.05	
59.00	LST	FOS	0.26	
60.00	LST	FOS	0.06	
61.00	LST	FOS	0.01	
62.00	LST	FOS	0.05	
63.00	LST	FOS	0.06	
64.00	LST	FOS	0.01	
65.00	LST	FOS	0.05	

BOX LOG

HOLE: RAU-09-50

BOX	FROM (m)	TO (m)
1	3.61	19.13
2	19.13	31.32
3	31.32	39.41
4	39.41	43.96
5	43.96	48.16
6	48.16	52.73
7	52.73	57.84
8	57.84	61.91
9	61.91	65.53
	65.53	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+250NW

HOLE: Rau-09-51
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
538646	7119250	1316.3	107.6

Contractor: Superior
Drill: Oxide (2)

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 3.05 (m) out

Drilling dates: Aug 18-20, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.80	3.80	OVB	
3.80	3.96	0.16	LST	Rubble - could be overburden
3.96	28.55	24.59	OX	Clay rich
28.55	78.16	49.61	DOL	Contains oxide zones
78.16	107.60	29.44	LST	Fossiliferous

SAMPLES

Numbers: H885661-H885690, H885704-H885721
H885760-H885762
Total: 51
Batches 43, 44, 45
Certificate: VA09097200, VA09094231, VA09098645

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-51

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.80	3.80	OVB																			
3.80	3.96	0.16	LST	RBL																		Small interval of limestone rubble. Probably just overburden.
3.96	28.55	24.59	OX	CLY												t						Reddish-orange-brown oxide clay with rubbly limonitic and altered carbonate fragments. The colour is slightly variable from pink-red (hematite stained?) to dark brown/black limonite zones, to small isolated patches of yellow-green clay. Very few structures or textures are visible on the cored surface. Within the top ~ 12 m of the oxide there are fragments of oxide which have visible very fine grained arsenopyrite similar to that of the mineralization found in the discovery trench with a slight greenish-yellow-grey colour. These particular fragments are very heavy. Overall <1% of the oxide material in the first 12 m is this.
																						3.96-5.49 m: Poorly recovered dark reddish-orange-brown rubbly limonitic +/- sideritic fragments. Some of the fragments contain 'discovery trench' style mineralization. Most of the fragments are quite heavy for their size. (COLOUR 7.5 YR 3/4 - dark brown)
																						5.49-7.01 m: No recovery.
																						7.01-8.53 m: Poorly recovered soupy clay oxide with 30 % rubbly, heavy, oxide fragments. (COLOUR 7.5 YR 3/4 - dark brown)
																						8.53-10.06 m: Mostly rubbly strongly oxidized fragments (dark red-brown) with grit and clay coatings. (COLOUR 5YR 3/4 - dark reddish brown)
																						10.06-14.63 m: Medium red-orange-brown grit and rubble with only minor clay. Minor yellow-green clay at 15.20 m. (COLOUR 5YR 3/4 dark reddish brown) Bedding occurs at 75 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	70															14.63-20.05 m: Mixture of clay and oxidized grit and angular rubble. Clay is medium orange-brown to rarer pink-red brown. The clay is quite competent and may have preserved structures and textures on the split surface. ~50% clay 50% altered carbonate rubble (medium brown in colour NOT limonite). (COLOUR 10 YR 4/6 - dark yellowish brown). 16-18 m: Good bedding ranging between 60-80 deg to CA. At 18 m: there are angular red clasts 3 cm in diameter within the brown-orange-red oxide.
						BD	40															20.05-22.25m: Mixture of dark brown/black limonite rubble and pink/red clay with fragments of altered carbonate (?) - medium brown in colour. 30% clay, 70% limonite rubble. (COLOUR - 5YR 4/6 - yellowish red, and 5YR 3/4 - dark reddish brown) At 21 m: Bedding occurs at 40 deg to CA.
																						22.25-25.30 m: Rubbly vary dark brown/black limonite with very minor orange brown clay coating on some fractured surfaces. The fragments are mostly very porous (like the inside of a crunchie chocolate bar). More competent intervals occur particularly from 24.02-24.70 m. (COLOUR 10YR 3/6 - dark yellowish brown and 5YR - 3/4 dark reddish brown)
						BD	80															25.30-27.28 m: Mixture of medium brown clay and rubbly porous limonite fragments. 45% Clay, 55% Limonite. Bedding in the clay occurs at 80 deg to CA. Within the siderite altered limestone bedding occurs at 50 deg to CA.
						BD	50															
																						27.28-28.55 m: Strongly altered dolomite, medium to dark slightly greyish-brown. Strongly oxidized sulphides are visible on the cored surface. Medium grained subhedral and scattered throughout.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
28.55	78.16	49.61	DOL	ALT											w	t						Medium to coarse grained dolomite with faint banding in some zones and overprinting faint crackle texture. Overall the unit is weakly to strongly altered to medium orange-brown and medium to dark brown. Oxide zones up to ~2 m occur within the dolomite. They are typically medium to dark red-brown in colour and contain limonitic grit. Overall 20% oxide, 80% dolomite. Mineralization within the dolomite is weak overall and is mostly pyrite with trace coarse and very fine grained arsenopyrite. The pyrite is typically fine to medium grained with sub-hedral crystals scattered in a slightly banded texture and as disseminated patches. Most of the sulphides are
																						strongly oxidized with a thin oxide stain surrounding the crystals or patches.
																						28.55-36.91 m: Medium grained dolomite with weak pyrite in a patchy and faintly banded texture. Slight banding in the dolomite as slightly different coloured bands - light grey vs. light orange and occurs at 70 deg to CA. Overall the zone is fairly altered to a yellow-brown colour. With some patches of dark brown carbonate alteration.
																						36.91-40.82 m: Medium to dark red-brown sideritic oxide grading into a lighter medium orange-brown oxide - more of an altered carbonate ??
																						36.91-39.05 m: Siderite/oxide
																						39.05-40.82 m: Altered carbonate??
																						39.05-43.25 m: Fine grained medium grey dolomite with weak crackle texture. Overall quite fractured up with slight oxide clay coating on the fractures (could be just wash down from above??)
																						43.25-44.95 m: Intermixed dark red-brown clay, and a 15 cm piece of fine grained light to medium grey slightly crackled dolomite.

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						44.95-55.78 m: Medium to coarse grained light grey to pale tanish-orange dolomite with thin irregular stringers of oxidized sulphides - probably mostly pyrite with trace arsenopyrite. Overall the zone is relatively fresh with moderate to strong zones of alteration. Moderate alteration mostly comes from staining from oxidized sulphides. The stronger alteration is very rubbly clay rich carbonate alteration with minor yellow mica flakes. These zones occur from 47.75-48.16 m, 49.68-49.76 m, 51.65-52.49 m, 53.94-54.12 m.
																						By 51 m, start to get a slight pink tint in the dolomite - Mn replacement of Mg to a rhodochrosite type rock. Weak to fair overall.
						VN	40								f	t						55.78-66.15 m: Gradual increase in the concentration of pyrite and slightly more prominent arsenopyrite. The sulphides are no longer altered. The dolomite has a weak pink/orange tint (Mn replacement of Mg). At 61.50 m start to see ~1-3 cm clots of quartz within the dolomite. By 61.98 m, pyrite occurs as coarse grained pyrite cubes as well as large irregular veinlets and patches - almost flood like accumulations in the core. The dolomite is becoming very coarse grained.
															f	t				Qz	f	66.15-78.16 m: Coarse to very coarse grained dolomite with intergrown coarse grained quartz. There are some vuggy surfaces where perfect crystals of quartz and dolomite up to 2 cm in diameter occur. Pink/orange Mn replacement of Mg occurs in and out throughout. Pyrite occurs as anhedral patches +/- disseminations as well as euhedral crystals up to 0.8 cm scattered throughout. Concentration is fair overall. No arsenopyrite is visible. Rare 2 cm perfect cubic pyrite occurs at 73.82 m.
																						NOTE: quartz occurs until 70.60 where the very coarse grained dolomite occurs.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						74.20-74.80 m: zone of most intense replacement of Mg by Mn.
78.16	107.59	29.43	LST	ALT		VN	45		ms						w							Medium grey moderately to strongly dolomitized limestone with zones of coarse grained dolomite, which seem possibly vein controlled because they have very sharp contacts with the limestone in a few cases. In other cases, the dolomite seems more diagenetic within the limestone. Pyrite occurs as fine disseminations and small patches throughout. There are fine wispy stringers of a medium brown material that cuts at roughly 45 deg to CA. Thin healed fractures occurs at 45 deg to CA. Trace crinoid stem fragments occur.
				FOS		FR	45															80.00-80.75 m: Coarse grained dolomite.
																						82.98-83.50 m: Coarse grained dolomite.
																						89.51-90.21 m: Coarse grained dolomite.
						VN	30		w													90.21-98.20 m: Medium grey weakly dolomitized strongly crackle brecciated limestone. Other than the crackle brecciation the limestone is fairly massive. No visible FO or BD occurs. A few Ca veins cut at 30, 35, 60 deg to CA.
						VN	35															
						VN	60															
						BD	50															98.20- 107.59 m: Rather massive medium grey weakly dolomitized limestone. One bed of darker grey limestone with crinoid stem fragments occurs at 50 deg to CA. Trace quartz patches 1 cm in diameter occur. Trace pyrite occurs typically within the Ca veins but a tiny bit occurs within the limestone.
						VN	20															
						VN	30															
						VN	50															
																						107.59 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-51

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.80	3.96	0.16	0.16	100	0.00	0	EW	EW	
3.96	5.49	1.53	0.27	18	0.00	0	EW	EW	
5.49	7.01	1.52	0.00	0	0.00	0			No Recovery
7.01	8.53	1.52	0.15	10	0.00	0	EW	EW	
8.53	10.06	1.53	0.91	59	0.00	0	EW	EW	
10.06	11.58	1.52	1.15	76	0.00	0	EW	EW	
11.58	13.11	1.53	0.85	56	0.00	0	EW	EW	
13.11	14.63	1.52	1.46	96	0.00	0	EW	EW	
14.63	16.15	1.52	1.10	72	0.00	0	EW	EW	
16.15	17.68	1.53	1.42	93	0.00	0	EW	EW	
17.68	19.20	1.52	1.40	92	0.00	0	EW	EW	
19.20	20.73	1.53	1.26	82	0.00	0	EW	EW	
20.73	22.25	1.52	1.52	100	0.00	0	EW	EW	
22.25	23.77	1.52	1.49	98	0.00	0	EW	EW	
23.77	25.30	1.53	1.53	100	0.20	13	W	EW	
25.30	26.82	1.52	1.30	86	0.00	0	EW	EW	
26.82	28.35	1.53	1.40	92	0.15	10	EW	HW	
28.35	29.87	1.52	1.37	90	0.80	53	W	MW	
29.87	31.39	1.52	1.49	98	0.71	47	W	MW	
31.39	32.92	1.53	0.84	55	0.48	31	W	MW	
32.92	34.44	1.52	1.52	100	0.57	38	W	MW	
34.44	35.97	1.53	1.53	100	1.35	88	W	MW	
35.97	37.49	1.52	1.41	93	0.93	61	W	MW	
37.49	39.01	1.52	0.20	13	0.00	0	W	MW	
39.01	40.54	1.53	1.03	67	0.49	32	W	MW	
40.54	42.06	1.52	1.40	92	0.45	30	W	MW	
42.06	43.59	1.53	1.44	94	0.00	0	W	MW	
43.59	45.11	1.52	0.99	65	0.56	37	W	MW	
45.11	46.63	1.52	1.52	100	1.46	96	W	MW	
46.63	48.16	1.53	1.53	100	0.93	61	W	MW	
48.16	49.68	1.52	1.46	96	1.18	78	W	MW	
49.68	51.21	1.53	1.53	100	1.27	83	W	MW	
51.21	52.73	1.52	1.50	99	0.96	63	W	MW	
52.73	54.25	1.52	1.52	100	0.20	13	W	MW	
54.25	55.78	1.53	1.38	90	1.38	90	MS	SW	
55.78	57.30	1.52	1.52	100	1.11	73	MS	SW	
57.30	58.83	1.53	1.53	100	1.44	94	MS	SW	
58.83	60.35	1.52	1.52	100	1.32	87	MS	SW	
60.35	61.87	1.52	1.48	97	1.24	82	MS	SW	
61.87	63.40	1.53	1.53	100	1.40	92	MS	SW	
63.40	64.92	1.52	1.49	98	1.49	98	MS	SW	
64.92	66.45	1.53	1.53	100	1.34	88	MS	SW	
66.45	67.97	1.52	1.52	100	1.41	93	MS	FR	
67.97	69.49	1.52	1.52	100	1.48	97	MS	FR	
69.49	71.02	1.53	1.52	99	1.46	95	MS	FR	
71.02	72.54	1.52	1.45	95	1.34	88	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.37	90	1.18	77	MS	FR	
74.07	75.59	1.52	1.52	100	1.20	79	MS	FR	
75.59	77.11	1.52	1.52	100	1.52	100	MS	FR	
77.11	78.64	1.53	1.50	98	1.20	78	MS	FR	
78.64	80.16	1.52	1.50	99	1.27	84	MS	FR	
80.16	81.69	1.53	1.52	99	1.33	87	MS	FR	
81.69	83.21	1.52	1.40	92	1.30	86	MS	FR	
83.21	84.73	1.52	1.52	100	1.40	92	MS	FR	
84.73	86.26	1.53	1.53	100	1.33	87	MS	FR	
86.26	87.78	1.52	1.52	100	1.50	99	MS	FR	
87.78	89.31	1.53	1.45	95	0.88	58	MS	FR	
89.31	90.83	1.52	1.20	79	0.90	59	MS	FR	
90.83	92.35	1.52	1.52	100	1.49	98	MS	FR	
92.35	93.88	1.53	1.53	100	1.27	83	MS	FR	
93.88	95.40	1.52	1.52	100	1.20	79	MS	FR	
95.40	96.93	1.53	1.50	98	1.24	81	MS	FR	
96.93	98.45	1.52	1.52	100	1.11	73	MS	FR	
98.45	99.97	1.52	1.52	100	1.52	100	MS	FR	
99.97	101.50	1.53	1.48	97	1.48	97	MS	FR	
101.50	103.02	1.52	1.52	100	1.52	100	MS	FR	
103.02	104.55	1.53	1.50	98	1.50	98	MS	FR	
104.55	106.07	1.52	1.52	100	1.52	100	MS	FR	
106.07	107.59	1.52	1.38	91	1.38	91	MS	FR	
	107.59	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-51

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.96	5.49	1.53	0.24	16	H885661	1.0	43	0.42	7.97	11200	434.00	
7.01	8.53	1.52	0.12	8	H885662	0.5	43	0.47	15.65	14800	797.00	
8.53	10.06	1.53	0.82	54	H885663	3.0	43	0.51	5.93	16400	812.00	
10.06	11.58	1.52	1.05	69	H885664	5.0	43	2.75	2.07	29000	755.00	
11.58	14.63	3.05	2.10	69	H885665	8.0	43	1.26	1.04	36100	459.00	
14.63	17.68	3.05	2.42	79	H885667	8.0	43	2.15	1.65	32400	429.00	
17.68	20.05	2.37	2.37	100	H885668	7.0	43	1.50	3.82	20300	544.00	
20.05	22.25	2.20	1.52	69	H885669	5.5	43	0.12	1.67	27100	75.10	
22.25	25.30	3.05	1.10	36	H885670	8.5	43	0.17	0.86	44600	262.00	
25.30	27.28	1.98	1.60	81	H885672	4.0	43	1.98	0.50	17700	3030.00	
27.28	28.55	1.27	0.85	67	H885674	2.5	43	0.12	0.15	2040	676.00	
28.55	31.00	2.45	2.06	84	H885675	8.0	43	0.14	0.20	1020	35.10	
31.00	34.00	3.00	1.73	58	H885676	6.5	43	0.06	0.21	1680	18.90	
34.00	36.91	2.91	2.91	100	H885677	11.5	43	0.03	0.42	1100	13.95	
36.91	39.05	2.14	1.14	53	H885678	3.5	43	0.30	1.48	2890	270.00	
39.05	40.82	1.77	1.21	68	H885679	4.0	43	0.08	0.90	944	235.00	
40.82	43.25	2.43	2.01	83	H885680	7.0	43	0.02	0.16	357	20.30	
43.25	44.95	1.70	1.11	65	H885681	3.0	43	0.18	2.25	4410	1275.00	
44.95	47.75	2.80	2.71	97	H885682	11.0	43	0.13	0.43	870	39.30	
47.75	49.76	2.01	1.90	95	H885684	7.0	43	0.07	0.40	793	64.60	
49.76	52.49	2.73	2.60	95	H885685	10.0	43	0.05	0.76	659	75.40	
52.49	54.12	1.63	1.63	100	H885686	6.5	43	0.03	0.95	518	54.20	
54.12	55.78	1.66	1.49	90	H885687	5.5	43	0.04	0.22	455	23.40	
55.78	58.83	3.05	3.05	100	H885688	12.0	43	0.02	0.31	381	32.20	
58.83	61.87	3.04	2.95	97	H885689	13.0	43	0.02	0.26	222	52.20	
61.87	64.92	3.05	2.88	94	H885690	13.0	43	0.52	0.42	472	256.00	
64.92	66.15	1.23	1.14	93	H885704	5.0	44	0.07	0.18	1320	190.00	
66.15	67.97	1.82	1.82	100	H885705	7.5	44	<0.01	0.10	62	21.30	
67.97	71.02	3.05	3.05	100	H885706	13.0	44	<0.01	0.15	72	4.38	
71.02	74.07	3.05	2.96	97	H885707	12.0	44	<0.01	0.13	104	17.75	
74.07	77.11	3.04	3.04	100	H885709	12.0	44	0.01	0.08	72	39.70	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
77.11	78.16	1.05	1.05	100	H885710	4.0	44	<0.01	1.41	85	145.50	
78.16	80.16	2.00	2.00	100	H885712	8.0	44	0.01	0.81	193	481.00	
80.16	83.21	3.05	3.02	99	H885713	12.0	44	<0.01	0.23	228	18.95	
83.21	86.26	3.05	3.05	100	H885714	14.0	44	0.02	0.44	1220	181.50	
86.26	87.78	1.52	1.52	100	H885715	6.5	44	0.03	0.06	233	15.15	
87.78	90.22	2.44	2.30	94	H885716	10.0	44	0.04	0.80	361	38.90	
90.22	92.35	2.13	2.05	96	H885717	8.0	44	0.02	0.23	28	3.63	
92.35	95.40	3.05	3.05	100	H885718	12.5	44	0.01	0.02	26	2.81	
95.40	98.20	2.80	2.80	100	H885719	11.0	44	0.01	0.15	13	1.62	
98.20	99.97	1.77	1.77	100	H885720	8.0	44	<0.01	0.03	10	1.53	
99.97	101.91	1.94	1.92	99	H885721	8.0	44	<0.01	0.04	<5	1.45	
101.91	104.55	2.64	2.64	100	H885760	10.5	45	<0.01	0.09	18	1.59	
104.55	107.59	3.04	3.04	100	H885761	12.0	45	<0.01	0.05	63	5.22	
-	-	-			H885666	4.0	43	<0.01	0.02	127	1.98	Blank
-	-	-			H885671	0.3	43	5.76	0.25	42000	484.00	Standard R-3
-	-	-			H885673	4.0	43	<0.01	0.01	106	1.21	Blank
44.95	47.75	2.80	2.71	97	H885683	5.0	43	0.11	0.51	1100	43.40	Duplicate
-	-	-			H885711	0.3	44	1.51	1.75	25900	348.00	Standard R-2
-	-	-			H885762	0.3	45	5.75	0.18	44500	502.00	Standard R-3

BOX DENSITY LOG

HOLE: RAU-09-51

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
1	3.80	12.90	6.12	OX		2.85	53.0	2.87	
2	12.90	16.50	6.12	OX		2.93	49.0	2.58	
3	16.50	20.73	6.12	OX		3.36	42.0	1.93	
4	20.73	24.45	6.12	OX		2.81	47.0	2.58	
5	24.45	28.35	6.12	OX		2.80	40.0	2.20	
12	53.84	57.98	6.12	DOL	MX	3.91	71.0	2.80	
13	57.98	61.98	6.12	DOL	MX	4.08	72.0	2.72	
14	61.98	66.10	6.12	DOL	MX	3.96	74.0	2.88	
21	90.00	94.10	6.12	LST	DOL	4.00	67.0	2.58	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-51

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.00	OX	CLY	0.57	
5.00	OX	CLY	n/a	
6.00	OX	CLY	n/a	
7.00	OX	CLY	0.65	
8.00	OX	CLY	1.09	
9.00	OX	CLY	0.52	
10.00	OX	CLY	0.63	
11.00	OX	CLY	0.77	
12.00	OX	CLY	0.92	
13.00	OX	CLY	0.62	
14.00	OX	CLY	0.63	
15.00	OX	CLY	0.53	
16.00	OX	CLY	0.36	
17.00	OX	CLY	0.62	
18.00	OX	CLY	0.55	
19.00	OX	CLY	0.50	
20.00	OX	CLY	0.70	
21.00	OX	CLY	0.63	
22.00	OX	CLY	1.05	
23.00	OX	CLY	0.63	
24.00	OX	CLY	0.33	
25.00	OX	CLY	0.35	
26.00	OX	CLY	0.42	
27.00	OX	CLY	0.21	
28.00	OX	CLY	0.20	
29.00	DOL	ALT	0.15	
30.00	DOL	ALT	0.42	
31.00	DOL	ALT	0.25	
32.00	DOL	ALT	0.35	
33.00	DOL	ALT	0.13	
34.00	DOL	ALT	0.28	
35.00	DOL	ALT	0.33	
36.00	DOL	ALT	0.65	
37.00	DOL	ALT	0.38	
38.00	DOL	ALT	0.62	
39.00	DOL	ALT	0.30	
40.00	DOL	ALT	0.36	
41.00	DOL	ALT	0.11	
42.00	DOL	ALT	0.15	
43.00	DOL	ALT	0.06	
44.00	DOL	ALT	0.35	
45.00	DOL	ALT	0.33	
46.00	DOL	ALT	0.35	
47.00	DOL	ALT	0.42	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
48.00	DOL	ALT	0.50	
49.00	DOL	ALT	0.28	
50.00	DOL	ALT	0.36	
51.00	DOL	ALT	0.38	
52.00	DOL	ALT	0.35	
53.00	DOL	ALT	0.40	
54.00	DOL	ALT	0.28	
55.00	DOL	ALT	0.40	
56.00	DOL	ALT	0.33	
57.00	DOL	ALT	0.47	
58.00	DOL	ALT	0.47	
59.00	DOL	ALT	0.16	
60.00	DOL	ALT	0.30	
61.00	DOL	ALT	0.45	
62.00	DOL	ALT	0.38	
63.00	DOL	ALT	0.50	
64.00	DOL	ALT	0.47	
65.00	DOL	ALT	0.52	
66.00	DOL	ALT	0.26	
67.00	DOL	ALT	0.43	
68.00	DOL	ALT	0.23	
69.00	DOL	ALT	0.21	
70.00	DOL	ALT	0.20	
71.00	DOL	ALT	0.30	
72.00	DOL	ALT	0.25	
73.00	DOL	ALT	0.30	
74.00	DOL	ALT	0.52	
75.00	DOL	ALT	0.30	
76.00	DOL	ALT	0.40	
77.00	DOL	ALT	0.25	
78.00	DOL	ALT	0.68	
79.00	LST	FOS	0.20	
80.00	LST	FOS	0.28	
81.00	LST	FOS	0.11	
82.00	LST	FOS	0.11	
83.00	LST	FOS	0.26	
84.00	LST	FOS	0.62	
85.00	LST	FOS	0.78	
86.00	LST	FOS	0.35	
87.00	LST	FOS	0.15	
88.00	LST	FOS	0.33	
89.00	LST	FOS	0.50	
90.00	LST	FOS	0.48	
91.00	LST	FOS	0.20	
92.00	LST	FOS	0.11	
93.00	LST	FOS	0.28	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
94.00	LST	FOS	0.18	
95.00	LST	FOS	0.11	
96.00	LST	FOS	0.11	
97.00	LST	FOS	0.06	
98.00	LST	FOS	0.13	
99.00	LST	FOS	0.05	
100.00	LST	FOS	0.06	
101.00	LST	FOS	0.10	
102.00	LST	FOS	0.06	
103.00	LST	FOS	0.11	
104.00	LST	FOS	0.16	
105.00	LST	FOS	0.53	
106.00	LST	FOS	0.53	

BOX LOG

HOLE: Rau-09-51

BOX	FROM (m)	TO (m)
1	3.80	12.90
2	12.90	16.50
3	16.50	20.73
4	20.73	24.45
5	24.45	28.35
6	28.35	33.10
7	33.10	36.58
8	36.58	41.65
9	41.65	64.12
10	46.12	49.91
11	46.91	53.84
12	53.84	57.98
13	57.98	61.98
14	61.98	66.10
15	66.10	90.20
16	70.20	74.07
17	74.07	78.05
18	78.05	81.95
19	81.95	85.80
20	95.80	90.00
21	90.00	94.10
22	94.10	97.87
23	97.87	101.91
24	101.91	106.07
25	106.07	107.59
	107.59	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+500 NW

HOLE: Rau-09-52
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528195	7119454	1466	377.96

Contractor: Superior
Drill: Oxide (3)

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-50	compass				

Core size: HQ - NQ at 895 ft.
Casing depth: 6.09 (m) out

Drilling dates: Aug 21-29, 2009

Logged by: J. Lane, R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	0.95	0.95	OVB	
0.95	234.15	233.20	LST	
234.15	237.05	2.90	LST	Dolomitized
237.05	255.63	18.58	LST	Dolomitized and brecciated
255.63	259.66	4.03	DOL	Altered
259.66	377.95	118.29	DOL	Non mineralized

SAMPLES

Numbers: H885813, H885962, H885968-H885969
H885980-H885980 Batches 47, 51, 52
Total: 23
Date sent:
Certificate: VA09098643, VA09100668, VA09100665

COMMENTS

This hole was targeted to hit a possible fault. Reduced to NQ at 105.16 m to increase the speed of drilling.

GEOLOGY LOG

HOLE: Rau-09-52

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	0.95	0.95	OVB																			
0.95	234.15	233.20	LST			FO	55															Medium grey fossiliferous, foliated limestone. Crinoid stem fragments (3-5%) up to 0.4 cm in diameter occur scattered throughout. The crinoid stem fragments resists the deformation for the most part. Thin Ca veins cut the foliation at 25 deg to CA. FO occurs at 55 deg to CA. A faint patchy tan-brown alteration overprint occurs throughout.
																						10.67-10.91 m: Tan-brown gritty clay zone. Clay probably represents altered carbonate as it fizzes strongly with acid and contains small gritty fragments of limestone. Some fractured surfaces have a bright orange stain on them.
																						21.34-21.40 m: Non calcareous taupe coloured clay.
						FR	10															21.40-27.00 m: Fractures cut the FO at 10 deg to CA.
																						27.00 m: The crinoid stem fragments are slightly larger (up to 0.7 cm), but overall the size of the crinoids remains quite small 0.2-0.4 cm. They are also becoming slightly more broken up. Rare star crinoids occur.
						FR	40	90														38.10-43.30 m: Bright orange-brown oxidized material fills fractures that occur at 10 and 40 deg to CA. Strongly oxidized sulphides occur scattered throughout. They are dark orange-red brown in colour. They are more concentrated near the altered brown patches as well as the fractures that are filled with oxidized material.
						FR	10	90														

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	55						MBL	s								47.73-53.12 m: Strongly marbleized limestone with a foliation occurring at 55 deg to CA. Patchy orange-brown alteration occurs along bands parallel to the foliation. These bands are 1-4 mm thick and account for ~ 5% of the interval. At 50 m the zone becomes quite fractured up. The brown orange layers might by thin volcaniclastic layers??? Within the rubbly/fractured zone these layers appear quite fissile and resemble the altered volcaniclastic. (Fluids might preferentially be moving along these thin layers- and these fluids might be causing the marbleization).
						VN	10								w							53.12-67.06 m: Moderately fractured foliated limestone with 1-3% strongly oxidized sulphides (probably pyrite) up to 0.3 cm in diameter and sub-hedral. Sulphide veinlets which have been strongly oxidized occur at 10 deg to CA and are 0.3-0.5 cm thick. Foliation occurs at 55 deg to CA.
																						55 m: the core becomes less rubbly.
																						56.90-56.95 m: Quartz dolomite vein occurs at 65 deg to CA. This vein has a pinkish/orange colour. It is coarse grained and has a sharp, but irregular contact. The foliation within this zone is at 65 deg to CA.
						FO	65								w		w					75.59-87.75 m: Limestone no longer contains the altered patches and the sulphides. Instead there are fresh, weakly concentrated, fine grained, disseminated and small patches, pyrite and pyrrhotite. The foliation is sharp at 65 deg to CA. At 82 m, more quartz dolomite veins 2-5 cm thick occur at 70-80 deg to CA, their nature is very irregular, as they occur as more of an isolated flood than a clean cutting vein. These veins contain a small amount of a light green mineral (or possibly a stain), near a darker green mineral - chlorite??
						VN	70															87.75 m: Begin to get steep folding. The foliation changes as follows:

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	80															86.70 m: FO at 70 deg to CA
																						88.40 m: FO at 80 deg to CA
																						89.30 m: FO at 60 deg to CA
																						90.10 m: FO at 70 deg to CA
																						91.44 m: Tight fold hinge
																						91.60 m: FO at 90 deg to CA
																						94.50 m: FO at 75 deg to CA
																						100.57 m: FO at 80 deg to CA
																						105.16-106 m: No recovery, reduced to NQ. Core afterwards remains foliated, slightly fossiliferous LST with minor Py.
						FO	80															107m: FO at 80 deg to CA
						FO	70															111m: FO at 70 deg to CA
																						In general, irregular low angle (<15 deg) veinlets orange-white-brown calcite common. BD near vertical (75-85deg)
						FO	75															120m: FO at 75 deg to CA
						FO	70															136m: FO at 65-70 deg to CA
																						149-152.40 m: Bands/patches of yellowish brown alteration (mild) on LST.
						FO	60															152.40-160m Minor alteration/banding continues, subparallel to FO, with 10-30% of rock coloured, now a light reddish colour, presumably hematite staining. Bands of alteration somewhat regular, at 55-60 degrees. No change in fossils, py, etc.
																						169.50 m: Begin to get low angle calcite veins 2-4 mm thick at 15 and 30 deg to CA. Also, concentration of crinoid fragments decreases to weak.
																						174.05 Begin to get isolated zones of brecciation 5-15 cm thick with gradual upper and lower contacts.
																						180.41- 180.46m Patchy creamy yellow-green sericite altered zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	55															182.99- 205.30m The fluid brecciation becomes more pronounced. It still occurs as zones as opposed to complete brecciation, but the brecciation accounts for 60% of the interval. The non-brecciated sections are quite gritty in texture. At 194.83-195.07 m, there is a highly altered zone surrounding a fracture filled with sparry calcite (radial mounds of fibrous calcite needles....could be aragonite?) Surrounding the vein is a dark brown heavily altered/oxidized zone
205.30			FLT?																			Drillers identified a fault.
																						205.30-211.15m Below this point the core is more rubbly but appears to be of similar lithology. Brecciated medium to dark grey limestone.
						BD	65								t							211.15-234.15 m: Dark grey to black shaley limestone with bedding at 65 deg to CA. No crinoids occur within. Quite heavily fractured surfaces are very smooth and occasionally graphitic. White calcite stringers roughly follow the bedding.
																						221.60-228.95 m: Thin Ca veins crackle/brecciate the black shaley limestone slightly. Trace pyrite is visible on some fractured surfaces.
234.15	237.05	2.90	LST	ALT		FR	50		m													Fine grained light to medium grey massive gritty (?) dolomitized limestone. The limestone fizzes only very weakly with acid (dolomitized?) In a few localized areas there appears to be a faint, fine breccia. Trace very fine grained pyrite occurs disseminated. Only a tiny bit overall. Thin healed fractures with a slight bleached halo occur at 50 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
237.05	355.63	118.58	DOL	ALT	BX										t							Generally a very strongly fluid collapse brecciated dolomitized limestone. Intervals of moderately hematized reddish-beige grit occur with fragments of black shale within. Trace to no mineralization occurs within this interval. Very trace disseminated pyrite.
																						237.05-238.78 m: Fine grained medium to dark grey highly ground breccia. Mainly fine grained with rare large (up to 4 cm) sub-rounded black shale clasts.
																						237.50-237.74 m: Slightly calcareous medium grey clay zone - fault???? Above this spot the rock is strongly fractured, below it is quite competent.
						VN	25								w							238.78-244.30 m: Mixed dark grey/light grey-white strongly fluid collapse brecciated, dolomitized limestone. The matrix appears to be medium to coarse grained dolomite (?) Very thin dark grey to black crackle texture overprints the breccia. 60% dark grey, 40% light grey/white. Patchy late pyrite veins cut at 25-30 deg to CA, weak overall and strongly oxidized. Other than the veins and crackle texture no other structure are identified.
																						244.30-238.27 m: Strongly altered mixed slightly carbonaceous beige grit with clasts of black shale. Interval has been oxidized slightly as well the grit and has a faint red colouration - hematite? This area may represent a strange brecciated horizon. The upper and lower contacts are gradational with no evidence of a fault. No evidence of any mineralization.

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						248.27-264.10 m: Strongly fluid collapse brecciated dolomitized limestone/dolomite. The matrix white (dolomite) while the clasts are dark grey (dolomitized limestone). There is a very faint (dark grey) crackle overprint . At 260.30 m, begin to become more dolomite dominated. Throughout but particularly within this more dolomite rich zone there are vugs containing medium - coarse grained dolomite +/- Ca crystals. Trace <1 cm patches of oxidizes sulphides (probably pyrite). The dolomite has a very faint tan tint to it.
																						264.10-276.10 m: Gradual transition into mainly medium to coarse grained dolomite with small relict patches of dark grey/black material (dolomitized limestone?) There are vuggy patches within the dolomite typically 1-1.5 cm in diameter filled with medium to coarse grained dolomite.
						FR	35															268.50-271.27 m: There is an orientation of the cracks at 35 deg to CA. These particular cracks contain dark red-brown oxidized material.
																						272.09-272.14 m: Band of speckled dark brown and beige gritty, non-calcareous material.
																						276.10-276.60 m: Zone of dark grey/black very fine grained dolomitized limestone brecciated on the outer contacts by the coarse grained dolomite. The clasts are angular and brecciated in a mosaic style.
						FR	35															280.00-294.00 m: The dominant fracture orientation is 25 deg to CA. This fracture phase seems to be the last phase of structure.
						VN	45															296.11-299.45 m: Zone of decreased dolomite brecciation. Coarse grained dolomite veins cut at 45 deg to CA. Slight banding within the dark grey dolomitized limestone occurs at 40 deg to CA. 70% dolomitized limestone, 30% dolomite.
						VN	60															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						305.50-307.85 m: Another zone of mainly dark grey/black limestone. Ca veins cut at 40 deg to CA.
						FR	25															307.85-312.35 m: Dominant fractures filled with oxidized material cut at 25 deg to CA.
																						319.01-320.70 m: Heavily fractured pinkish dolomite. There is high concentration of vugs, thin healed fractures and crackle networks that lead to the fracturing of the core. The fractures have a slight yellowy/brown alteration tint to them.
																						320.70-323.09 m: Within the dolomite there are zones of gritty looking material. The original limestone might have been gritty within this zone. Also vugs are filled with medium grained crystals that look like dolomite but have a dark grey-black colour - possibly just a staining???
															t							323.09-330.98 m: The dolomite appears to be more fine grained and more of a light grey in colour. Swirly irregular veinlets containing strongly oxidized material (pyrite?) occurs trace overall in this interval.
															w							330.98-332.23 m: Strongly fractured zone with slight orangeish tint to the dolomite and moderate concentration of very irregular strongly oxidized - limonitic - slightly hematized veinlets in no particular orientation.
																						336.18-336.80 m: Strongly altered zone. A hematized vein occurs at 10 deg to CA. The entire area is weakly to fairly hematite altered and quite crackle fractured.
					BX										w							336.80-341.50 m: Brecciated zone. The clasts are 0.2-1 cm in diameter crackled white/light grey dolomite, subrounded. The matrix is fine grained medium grey and supports the clasts. Coarse grained pyrite 2-4 mm in diameter - euhedral occurs scattered throughout, weak overall. The pyrite cubes are strongly oxidized and leach a rusty stain into the surrounding material.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						338.90-340.85 m: Very rubbly zone of moderately altered dolomitized breccia. The upper and lower contacts are gradual and seem roughly bounded by the rubbly altered zones.
						FR	30								w							341.50- 355.63 m: The dolomite is becoming increasingly almost bleached looking. Crackle texture is very faint, and there is a faint pinky brown coloured overprint. Dominant crackle fracture orientation occurs at 30 deg to CA. Pyrite occurs scattered throughout.
						VN																354.59 m: The core begins to have oxidized veinlets cross cutting at 30 deg to CA. Also at this point the core begins to have a pinkish/orange tint to it.
355.63	359.66	4.03	DOL	ALT																		Medium orange-brown to brown strongly altered very rubbly dolomite with minor quartz fragments.
359.66	377.95	18.29	DOL		CR	VN	10															Light grey dolomite with strong medium to dark grey crackle texture zones of slightly pinkish altered dolomite (possible Mn replacement of Mg to Rhodochrosite). Rare altered veinlets occur at 10 deg to CA. Overall the core is slightly more fractured up than usual.
																						377.95 m: E.O.H

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-52

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.95	1.52	0.57	0.57	100	0.00	0	MS	SW	
1.52	3.05	1.53	0.64	42	0.20	13	MS	SW	
3.05	4.59	1.54	0.48	31	0.12	8	MS	SW	
4.59	6.10	1.51	0.53	35	0.00	0	MS	SW	
6.10	7.62	1.52	1.28	84	0.70	46	MS	SW	
7.62	9.14	1.52	1.52	100	0.85	56	MS	SW	
9.14	10.67	1.53	1.00	65	0.47	31	MS	SW	
10.67	12.19	1.52	0.78	51	0.36	24	MS	SW	
12.19	13.72	1.53	1.20	78	0.95	62	MS	SW	
13.72	15.24	1.52	1.50	99	1.32	87	MS	SW	
15.24	16.76	1.52	1.45	95	0.57	38	MS	SW	
16.76	18.29	1.53	0.74	48	0.00	0	MS	SW	
18.29	19.81	1.52	1.21	80	0.20	13	MS	SW	
19.81	21.34	1.53	1.49	97	0.68	44	MS	SW	
21.34	22.86	1.52	1.52	100	0.91	60	MS	SW	
22.86	24.38	1.52	1.42	93	1.16	76	MS	SW	
24.38	25.91	1.53	1.53	100	1.45	95	MS	SW	
25.91	27.43	1.52	1.52	100	1.34	88	MS	SW	
27.43	28.96	1.53	1.51	99	0.95	62	MS	SW	
28.96	30.48	1.52	1.52	100	1.45	95	MS	SW	
30.48	32.00	1.52	1.47	97	0.93	61	MS	SW	
32.00	33.53	1.53	1.49	97	0.72	47	MS	SW	
33.53	35.05	1.52	1.30	86	0.99	65	MS	SW	
35.05	36.58	1.53	1.53	100	0.92	60	MS	SW	
36.58	38.10	1.52	1.31	86	1.10	72	MS	SW	
38.10	39.62	1.52	1.42	93	0.60	39	MS	SW	
39.62	41.15	1.53	1.50	98	1.25	82	MS	SW	
41.15	42.67	1.52	1.47	97	0.97	64	MS	SW	
42.67	44.20	1.53	1.49	97	0.99	65	MS	SW	
44.20	45.72	1.52	1.52	100	1.30	86	MS	SW	
45.72	47.24	1.52	1.48	97	1.27	84	MS	SW	
47.24	48.77	1.53	1.43	93	0.77	50	MS	SW	
48.77	50.29	1.52	1.35	89	0.76	50	MS	SW	
50.29	51.82	1.53	0.90	59	0.00	0	MS	SW	
51.82	53.34	1.52	1.25	82	0.36	24	MS	SW	
53.34	54.86	1.52	1.38	91	0.40	26	MS	SW	
54.86	56.39	1.53	1.53	100	1.02	67	MS	SW	
56.39	57.91	1.52	1.43	94	1.05	69	MS	SW	
57.91	59.44	1.53	1.53	100	1.29	84	MS	SW	
59.44	60.96	1.52	1.49	98	0.93	61	MS	SW	
60.96	62.48	1.52	1.48	97	0.64	42	MS	SW	
62.48	64.01	1.53	1.49	97	0.72	47	MS	SW	
64.01	65.53	1.52	1.52	100	0.67	44	MS	SW	
65.53	67.06	1.53	1.50	98	0.33	22	MS	SW	
67.06	68.58	1.52	1.43	94	0.90	59	MS	FR	
68.58	70.10	1.52	1.52	100	1.07	70	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
70.10	71.63	1.53	1.53	100	1.08	71	MS	FR	
71.63	73.15	1.52	1.52	100	1.52	100	MS	FR	
73.15	74.68	1.53	1.53	100	1.52	99	MS	FR	
74.68	76.20	1.52	1.51	99	1.32	87	MS	FR	
76.20	77.72	1.52	1.52	100	1.31	86	MS	FR	
77.72	79.25	1.53	1.49	97	1.40	92	MS	FR	
79.25	80.77	1.52	1.53	101	1.39	91	MS	FR	
80.77	82.30	1.53	1.50	98	1.47	96	MS	FR	
82.30	83.82	1.52	1.50	99	1.50	99	MS	FR	
83.82	85.34	1.52	1.52	100	1.50	99	MS	FR	
85.34	86.87	1.53	1.49	97	1.33	87	MS	FR	
86.87	88.39	1.52	1.52	100	1.43	94	MS	FR	
88.39	89.92	1.53	1.46	95	1.37	90	MS	FR	
89.92	91.44	1.52	1.52	100	1.39	91	MS	FR	
91.44	92.96	1.52	1.52	100	1.52	100	MS	FR	
92.96	94.49	1.53	1.53	100	1.53	100	MS	FR	
94.49	96.01	1.52	1.52	100	1.40	92	MS	FR	
96.01	97.54	1.53	1.53	100	1.53	100	MS	FR	
97.54	99.06	1.52	1.45	95	1.21	80	MS	FR	
99.06	100.58	1.52	1.52	100	1.52	100	MS	FR	
100.58	102.11	1.53	1.53	100	1.53	100	MS	FR	
102.11	103.63	1.52	1.52	100	1.52	100	MS	FR	
103.63	105.16	1.53	1.51	99	1.51	99	MS	FR	
105.16	106.68	1.52	0.76	50	0.43	28	MS	FR	
106.68	109.73	3.05	3.02	99	2.25	74	MS	FR	
109.73	112.78	3.05	2.86	94	2.66	87	MS	FR	
112.78	115.82	3.04	2.83	93	2.08	68	MS	FR	
115.82	118.87	3.05	3.02	99	2.14	70	MS	FR	
118.87	121.92	3.05	3.05	100	3.05	100	MS	FR	
121.92	124.97	3.05	3.01	99	2.86	94	MS	FR	
124.97	128.01	3.04	2.88	95	2.42	80	MS	FR	
128.01	131.06	3.05	2.87	94	2.39	78	MS	FR	
131.06	134.11	3.05	3.05	100	2.84	93	MS	FR	
134.11	137.16	3.05	3.01	99	2.90	95	MS	FR	
137.16	140.21	3.05	3.00	98	2.44	80	MS	FR	
140.21	143.26	3.05	2.96	97	2.96	97	MS	FR	
143.26	146.30	3.04	2.93	96	2.87	94	MS	FR	
146.30	149.35	3.05	3.05	100	2.92	96	MS	FR	
149.35	152.40	3.05	2.94	96	2.65	87	MS	FR	
152.40	155.45	3.05	2.53	83	0.73	24	MS	FR	
155.45	158.50	3.05	2.97	97	1.29	42	MS	FR	
158.50	161.54	3.04	2.83	93	2.41	79	MS	FR	
161.54	164.92	3.38	2.99	88	2.90	86	MS	FR	
164.92	167.64	2.72	2.45	90	2.45	90	MS	FR	
167.64	170.69	3.05	2.90	95	2.42	79	MS	FR	
170.69	173.74	3.05	2.71	89	2.25	74	MS	FR	
173.74	176.78	3.04	2.75	90	1.88	62	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
176.78	179.83	3.05	2.92	96	2.00	66	MS	FR	
179.83	182.88	3.05	2.85	93	2.01	66	MS	FR	
182.88	185.93	3.05	2.95	97	2.10	69	MS	FR	
185.93	188.98	3.05	2.94	96	1.95	64	MS	FR	
188.98	192.02	3.04	3.01	99	2.85	94	MS	FR	
192.02	195.07	3.05	2.64	87	1.27	42	MS	SW	
195.07	198.12	3.05	2.71	89	1.47	48	MS	FR	
198.12	201.17	3.05	2.87	94	1.75	57	MS	FR	
201.17	204.22	3.05	2.73	90	1.95	64	MS	FR	
204.22	207.26	3.04	2.27	75	0.71	23	MS	FR	
207.26	207.51	0.25	0.25	100	0.12	48	MS	FR	
207.51	210.31	2.80	2.60	93	0.94	34	MS	FR	
210.31	213.36	3.05	2.75	90	0.82	27	MS	FR	
213.36	216.41	3.05	2.82	92	0.75	25	MS	FR	
216.41	219.46	3.05	2.86	94	0.23	8	MS	FR	
219.46	222.50	3.04	2.80	92	0.82	27	MS	FR	
222.50	225.55	3.05	2.69	88	0.90	30	MS	FR	
225.55	228.60	3.05	2.73	90	0.53	17	MS	FR	
228.60	231.65	3.05	2.27	74	0.45	15	MS	FR	
231.65	234.70	3.05	1.64	54	0.10	3	MS	FR	
234.70	237.74	3.04	2.89	95	0.71	23	MS	FR	
237.74	239.27	1.53	1.53	100	1.36	89	MS	FR	
239.27	240.79	1.52	1.52	100	1.52	100	MS	FR	
240.79	243.84	3.05	2.85	93	2.23	73	MS	FR	
243.84	246.89	3.05	2.40	79	0.83	27	MS	SW	
246.89	249.93	3.04	2.44	80	1.45	48	MS	SW	
249.93	252.98	3.05	2.85	93	2.22	73	MS	SW	
252.98	256.03	3.05	2.95	97	2.57	84	MS	SW	
256.03	259.08	3.05	2.99	98	2.36	77	MS	SW	
259.08	262.13	3.05	2.98	98	2.37	78	MS	SW	
262.13	265.18	3.05	2.93	96	2.32	76	MS	SW	
265.18	268.22	3.04	3.02	99	3.02	99	MS	SW	
268.22	271.27	3.05	2.97	97	2.89	95	MS	SW	
271.27	274.32	3.05	3.02	99	2.58	85	MS	SW	
274.32	277.37	3.05	2.82	92	1.84	60	MS	SW	
277.37	280.42	3.05	2.23	73	0.68	22	MS	SW	
280.42	283.46	3.04	2.76	91	1.62	53	MS	SW	
283.46	286.51	3.05	3.00	98	2.34	77	MS	SW	
286.51	289.56	3.05	2.96	97	0.74	24	MS	SW	
289.56	292.61	3.05	2.85	93	2.55	84	MS	SW	
292.61	295.66	3.05	2.90	95	1.92	63	MS	SW	
295.66	298.70	3.04	2.95	97	2.09	69	MS	SW	
298.70	301.75	3.05	2.83	93	1.15	38	MS	SW	
301.75	304.80	3.05	2.80	92	1.54	50	MS	SW	
304.80	307.85	3.05	2.80	92	1.70	56	MS	SW	
307.85	310.90	3.05	2.92	96	2.38	78	MS	SW	
310.90	313.94	3.04	2.90	95	2.35	77	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
313.94	316.99	3.05	2.95	97	1.93	63	MS	SW	
316.99	320.04	3.05	2.82	92	1.72	56	MS	SW	
320.04	323.09	3.05	3.05	100	1.45	48	MS	SW	
323.09	326.14	3.05	2.95	97	1.76	58	MS	FR	
326.14	329.18	3.04	2.70	89	0.74	24	MS	FR	
329.18	332.23	3.05	3.00	98	1.55	51	MS	MW	
332.23	335.28	3.05	2.47	81	0.77	25	MS	MW	
335.28	338.33	3.05	2.88	94	2.44	80	MS	MW	
338.33	341.38	3.05	2.15	70	0.80	26	W	MW	
341.38	344.42	3.04	2.97	98	2.78	91	MS	SW	
344.42	347.47	3.05	3.05	100	1.88	62	MS	SW	
347.47	350.52	3.05	2.85	93	2.03	67	MS	SW	
350.52	353.57	3.05	3.05	100	2.87	94	MS	SW	
353.57	356.62	3.05	2.45	80	1.99	65	W	MW	
356.62	357.23	0.61	0.17	28	0.00	0	EW	EW	
357.23	358.60	1.37	0.25	18	0.00	0	EW	EW	
358.60	359.05	0.45	0.38	84	0.00	0	W	MW	
359.05	359.66	0.61	0.12	20	0.00	0	EW	EW	
359.66	362.71	3.05	1.15	38	0.80	26	W	SW	
362.71	365.76	3.05	3.05	100	1.85	61	MS	SW	
365.76	368.81	3.05	2.88	94	1.27	42	MS	SW	
368.81	371.86	3.05	3.05	100	1.65	54	MS	SW	
371.86	374.90	3.04	2.88	95	0.96	32	MS	SW	
374.90	377.95	3.05	3.00	98	1.36	45	MS	SW	
	377.95	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-52

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
75.59	78.59	3.00	3.00	100	H885813	15.0	47	0.01	0.05	85	1.48	
78.59	81.59	3.00	3.00	100	H885962	7.5	51	<0.01	0.05	10	0.09	
270.17	273.65	3.48	3.44	99	H885968	10.0	51	<0.01	0.15	30	0.59	
273.65	276.65	3.00	2.88	96	H885969	8.5	51	0.01	0.25	21	0.58	
323.09	326.14	3.05	3.02	99	H885980	9.5	51	<0.01	0.08	19	0.27	
326.14	329.18	3.04	2.72	89	H885981	8.0	51	<0.01	0.09	12	0.16	
329.18	330.98	1.80	1.80	100	H885982	6.0	51	<0.01	0.07	11	0.17	
330.98	332.23	1.25	1.15	92	H885983	3.5	51	0.01	0.69	215	3.00	
332.23	334.20	1.97	1.87	95	H885984	6.0	51	<0.01	0.15	37	0.21	
334.20	336.18	1.98	1.57	79	H885985	5.0	52	0.04	0.10	91	3.05	
336.18	338.90	2.72	2.65	97	H885986	8.0	52	<0.01	0.26	118	1.39	
338.90	340.85	1.95	1.08	55	H885987	3.0	52	0.03	1.85	780	5.64	
340.85	343.03	2.18	2.02	93	H885988	6.0	52	<0.01	0.11	56	0.83	
347.32	350.52	3.20	2.97	93	H885989	9.0	52	<0.01	0.15	46	0.74	
350.52	353.57	3.05	3.03	99	H885990	9.0	52	<0.01	0.12	63	0.37	
353.57	355.63	2.06	2.06	100	H885991	6.0	52	<0.01	0.13	88	0.31	
355.63	356.62	0.99	0.35	35	H885992	1.0	52	<0.01	0.84	581	0.82	
356.62	357.23	0.61	0.18	30	H885993	1.0	52	0.01	1.15	1270	1.97	
357.23	358.60	1.37	0.25	18	H885994	1.0	52	<0.01	1.26	1240	0.98	
358.60	359.66	1.06	0.53	50	H885996	2.0	52	<0.01	0.80	600	0.49	
359.66	362.71	3.05	1.18	39	H885997	3.0	52	<0.01	0.40	158	0.63	
362.71	365.45	2.74	2.79	102	H885998	8.0	52	<0.01	0.07	28	0.20	
-	-	-			H885995	5.0	52	<0.01	0.01	7	0.07	Blank

BOX DENSITY LOG

HOLE: Rau-09-52

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
31	142.03	147.98	5.08	LST		5.92	64	2.42	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-52

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
1.00	LST		0.06	
2.00	LST		0.06	
3.00	LST		0.03	
4.00	LST		0.05	
5.00	LST		0.03	
6.00	LST		0.05	
7.00	LST		0.18	
8.00	LST		0.05	
9.00	LST		0.18	
10.00	LST		0.03	
11.00	LST		0.40	
12.00	LST		0.06	
13.00	LST		0.10	
14.00	LST		0.06	
15.00	LST		0.08	
16.00	LST		0.13	
17.00	LST		0.06	
18.00	LST		0.06	
19.00	LST		0.08	
20.00	LST		0.10	
21.00	LST		0.10	
22.00	LST		0.13	
23.00	LST		0.28	
24.00	LST		0.08	
25.00	LST		0.20	
26.00	LST		0.11	
27.00	LST		0.08	
28.00	LST		0.08	
29.00	LST		0.13	
30.00	LST		0.11	
31.00	LST		0.03	
32.00	LST		0.05	
33.00	LST		0.11	
34.00	LST		0.84	
35.00	LST		1.19	
36.00	LST		1.94	
37.00	LST		1.10	
38.00	LST		0.13	
39.00	LST		0.10	
40.00	LST		0.16	
41.00	LST		0.06	
42.00	LST		0.20	
43.00	LST		0.36	
44.00	LST		0.18	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST		2.41	
46.00	LST		0.15	
47.00	LST		1.54	
48.00	LST		0.15	
49.00	LST		0.01	
50.00	LST		0.03	
51.00	LST		0.10	
52.00	LST		0.16	
53.00	LST		0.06	
54.00	LST		0.13	
55.00	LST		0.10	
56.00	LST		0.05	
57.00	LST		0.06	
58.00	LST		0.06	
59.00	LST		0.03	
60.00	LST		0.01	
61.00	LST		0.03	
62.00	LST		0.06	
63.00	LST		0.03	
64.00	LST		0.06	
65.00	LST		0.05	
66.00	LST		0.00	
67.00	LST		0.06	
68.00	LST		0.01	
69.00	LST		0.03	
70.00	LST		0.01	
71.00	LST		0.11	
72.00	LST		0.03	
73.00	LST		0.26	
74.00	LST		0.68	
75.00	LST		0.72	
76.00	LST		0.16	
77.00	LST		0.06	
78.00	LST		0.15	
79.00	LST		0.26	
80.00	LST		0.53	
81.00	LST		1.10	
82.00	LST		0.45	
83.00	LST		1.88	
84.00	LST		1.44	
85.00	LST		0.82	
86.00	LST		1.73	
87.00	LST		1.20	
88.00	LST		0.97	
89.00	LST		0.08	
90.00	LST		0.08	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
91.00	LST		1.42	
92.00	LST		0.60	
93.00	LST		0.08	
94.00	LST		0.13	
95.00	LST		0.10	
96.00	LST		0.06	
97.00	LST		0.70	
98.00	LST		0.35	
99.00	LST		0.31	
100.00	LST		0.50	
101.00	LST		1.26	
102.00	LST		0.75	
103.00	LST		0.42	
104.00	LST		0.58	
105.00	LST		0.12	
106.00	LST		0.12	
107.00	LST		0.02	
108.00	LST		0.02	
109.00	LST		0.13	
110.00	LST		0.44	
111.00	LST		1.40	
112.00	LST		0.44	
113.00	LST		0.71	
114.00	LST		0.75	
115.00	LST		0.18	
116.00	LST		0.21	
117.00	LST		0.10	
118.00	LST		0.21	
119.00	LST		0.12	
120.00	LST		0.12	
121.00	LST		0.29	
122.00	LST		0.25	
123.00	LST		0.25	
124.00	LST		0.34	
125.00	LST		0.12	
126.00	LST		0.14	
127.00	LST		0.12	
128.00	LST		0.07	
129.00	LST		0.16	
130.00	LST		0.10	
131.00	LST		0.05	
132.00	LST		0.14	
133.00	LST		0.03	
134.00	LST		0.21	
135.00	LST		0.20	
136.00	LST		0.10	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
137.00	LST		0.12	
138.00	LST		0.12	
139.00	LST		0.16	
140.00	LST		0.20	
141.00	LST		0.27	
142.00	LST		0.27	
143.00	LST		1.06	
144.00	LST		0.49	
145.00	LST		0.56	
146.00	LST		0.14	
147.00	LST		2.26	
148.00	LST		0.87	
149.00	LST		0.10	
150.00	LST		0.09	
151.00	LST		0.07	
152.00	LST		0.03	
153.00	LST		0.14	
154.00	LST		0.31	
155.00	LST		0.07	
156.00	LST		0.10	
157.00	LST		0.12	
158.00	LST		0.10	
159.00	LST		0.09	
160.00	LST		0.12	
161.00	LST		0.07	
162.00	LST		0.09	
163.00	LST		0.14	
164.00	LST		0.05	
165.00	LST		0.03	
166.00	LST		0.03	
167.00	LST		0.01	
168.00	LST		0.01	
169.00	LST		0.01	
170.00	LST		0.07	
171.00	LST		0.10	
172.00	LST		0.03	
173.00	LST		0.03	
174.00	LST		0.01	
175.00	LST		0.02	
176.00	LST		0.02	
177.00	LST		0.05	
178.00	LST		0.02	
179.00	LST		0.01	
180.00	LST		0.30	
181.00	LST		0.00	
182.00	LST		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
183.00	LST		0.02	
184.00	LST		0.02	
185.00	LST		0.05	
186.00	LST		0.01	
187.00	LST		0.04	
188.00	LST		0.09	
189.00	LST		0.01	
190.00	LST		0.02	
191.00	LST		0.20	
192.00	LST		0.01	
193.00	LST		0.01	
194.00	LST		0.03	
195.00	LST		0.01	
196.00	LST		0.02	
197.00	LST		0.10	
198.00	LST		0.02	
199.00	LST		0.05	
200.00	LST		0.04	
201.00	LST		0.03	
202.00	LST		0.03	
203.00	LST		0.33	
204.00	LST		0.07	
205.00	LST		0.98	
206.00	LST		0.02	
207.00	LST		0.01	
208.00	LST		0.01	
209.00	LST		0.35	
210.00	LST		0.02	
211.00	LST		0.02	
212.00	LST		0.24	
213.00	LST		0.02	
214.00	LST		0.38	
215.00	LST		0.51	
216.00	LST		0.18	
217.00	LST		0.06	
218.00	LST		0.02	
219.00	LST		0.04	
220.00	LST		0.10	
221.00	LST		0.12	
222.00	LST		0.10	
223.00	LST		0.04	
224.00	LST		0.04	
225.00	LST		0.06	
226.00	LST		0.08	
227.00	LST		0.77	
228.00	LST		0.69	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
229.00	LST		0.26	
230.00	LST		0.32	
231.00	LST		0.24	
232.00	LST		0.04	
233.00	LST		0.02	
234.00	LST		0.02	
235.00	LST	ALT	0.20	
236.00	LST	ALT	0.10	
237.00	LST	ALT	0.02	
238.00	LST	ALT	0.06	
239.00	LST	ALT	0.04	
240.00	LST	ALT	0.86	
241.00	LST	ALT	0.06	
242.00	LST	ALT	0.04	
243.00	LST	ALT	0.04	
244.00	LST	ALT	0.10	
245.00	LST	ALT	0.49	
246.00	LST	ALT	0.08	
247.00	LST	ALT	0.06	
248.00	LST	ALT	0.28	
249.00	LST	ALT	0.06	
250.00	LST	ALT	0.02	
251.00	LST	ALT	0.02	
252.00	LST	ALT	0.04	
253.00	LST	ALT	0.12	
254.00	LST	ALT	0.06	
255.00	LST	ALT	0.04	
256.00	DOL	ALT	0.04	
257.00	DOL	ALT	0.01	
258.00	DOL	ALT	0.06	
259.00	DOL	ALT	0.26	
260.00	DOL		0.06	
261.00	DOL		0.04	
262.00	DOL		0.04	
263.00	DOL		0.08	
264.00	DOL		0.67	
265.00	DOL		0.04	
266.00	DOL		0.04	
267.00	DOL		0.41	
268.00	DOL		0.06	
269.00	DOL		0.02	
270.00	DOL		0.06	
271.00	DOL		0.01	
272.00	DOL		0.02	
273.00	DOL		0.04	
274.00	DOL		0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
275.00	DOL		0.16	
276.00	DOL		0.02	
277.00	DOL		0.02	
278.00	DOL		0.32	
279.00	DOL		0.00	
280.00	DOL		0.20	
281.00	DOL		0.02	
282.00	DOL		0.04	
283.00	DOL		0.08	
284.00	DOL		0.01	
285.00	DOL		0.02	
286.00	DOL		0.20	
287.00	DOL		0.18	
288.00	DOL		0.53	
289.00	DOL		0.02	
290.00	DOL		0.12	
291.00	DOL		0.02	
292.00	DOL		0.45	
293.00	DOL		0.04	
294.00	DOL		0.01	
295.00	DOL		0.04	
296.00	DOL		0.77	
297.00	DOL		0.16	
298.00	DOL		0.02	
299.00	DOL		0.04	
300.00	DOL		0.02	
301.00	DOL		0.04	
302.00	DOL		0.04	
303.00	DOL		0.06	
304.00	DOL		0.06	
305.00	DOL		0.02	
306.00	DOL		0.40	
307.00	DOL		0.14	
308.00	DOL		0.38	
309.00	DOL		0.06	
310.00	DOL		0.08	
311.00	DOL		0.16	
312.00	DOL		0.18	
313.00	DOL		0.00	
314.00	DOL		0.00	
315.00	DOL		0.00	
316.00	DOL		0.00	
317.00	DOL		0.00	
318.00	DOL		0.01	
319.00	DOL		0.00	
320.00	DOL		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
321.00	DOL		0.01	
322.00	DOL		0.00	
323.00	DOL		0.01	
324.00	DOL		0.00	
325.00	DOL		0.00	
326.00	DOL		0.01	
327.00	DOL		0.00	
328.00	DOL		0.00	
329.00	DOL		0.00	
330.00	DOL		0.00	
331.00	DOL		0.00	
332.00	DOL		0.00	
333.00	DOL		0.00	
334.00	DOL		0.00	
335.00	DOL		0.01	
336.00	DOL		0.01	
337.00	DOL		0.01	
338.00	DOL		0.01	
339.00	DOL		0.21	
340.00	DOL		0.01	
341.00	DOL		0.01	
342.00	DOL		0.00	
343.00	DOL		0.00	
344.00	DOL		0.03	
345.00	DOL		0.00	
346.00	DOL		0.00	
347.00	DOL		0.00	
348.00	DOL		0.00	
349.00	DOL		0.00	
350.00	DOL		0.00	
351.00	DOL		0.00	
352.00	DOL		0.03	
353.00	DOL		0.00	
354.00	DOL		0.00	
355.00	DOL		0.01	
356.00	DOL		0.12	
357.00	DOL		0.07	
358.00	DOL		0.03	
359.00	DOL		0.12	
360.00	DOL		N/A	
361.00	DOL		N/A	
362.00	DOL		0.01	
363.00	DOL		0.00	
364.00	DOL		0.14	
365.00	DOL		0.00	
366.00	DOL		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
367.00	DOL		0.07	
368.00	DOL		0.01	
369.00	DOL		0.00	
370.00	DOL		0.03	
371.00	DOL		0.00	
372.00	DOL		0.01	
373.00	DOL		0.00	
374.00	DOL		0.01	
375.00	DOL		0.07	
376.00	DOL		0.07	
377.00	DOL		0.01	

DENSITY LOG

HOLE: Rau-09-52

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
14.70	LST			14.6	4.2	1171.6	743.0	5.79	2.73

BOX LOG

HOLE: Rau-09-52

BOX	FROM (m)	TO (m)
1	0.95	7.64
2	7.64	12.19
3	12.19	16.48
4	16.48	21.34
5	21.34	25.35
6	25.35	29.39
7	29.39	33.53
8	33.53	38.10
9	38.10	42.20
10	42.20	46.19
11	46.19	50.29
12	50.29	55.05
13	55.05	59.11
14	59.11	62.99
15	62.99	67.06
16	67.06	71.04
17	71.04	75.07
18	75.07	79.13
19	79.13	83.35
20	83.35	87.67
21	87.67	91.99
22	91.99	96.31
23	96.31	100.78
24	100.78	107.25
25	107.25	113.10
26	113.10	118.87
27	118.87	124.72
28	124.72	130.44
29	130.44	136.24
30	136.24	142.03
31	142.03	147.98
32	147.98	153.46
33	153.46	159.25
34	159.25	165.00
35	165.00	170.99
36	170.99	176.91
37	176.91	182.82
38	182.82	188.38
39	188.38	194.22
40	194.22	199.52

BOX	FROM (m)	TO (m)
41	199.52	205.00
42	205.00	210.66
43	210.66	215.01
44	215.01	220.40
45	220.40	225.60
46	225.60	230.67
47	230.67	236.40
48	236.40	241.25
49	241.25	247.10
50	247.10	252.98
51	252.98	258.61
52	258.61	264.01
53	264.01	274.46
54	274.46	280.79
55	280.79	286.35
56	286.25	291.35
57	291.35	295.90
58	295.90	301.91
59	301.91	307.25
60	307.25	312.35
61	312.35	317.48
62	317.48	322.44
63	322.44	327.75
64	327.75	329.18
65	329.18	334.20
66	334.20	338.54
67	338.54	343.03
68	343.03	347.32
69	347.32	351.63
70	351.63	356.62
71	356.62	365.45
72	365.45	370.57
73	370.57	375.38
74	375.38	377.95
	377.95	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 10+250NW

HOLE: Rau-09-53
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528405	7119302	1346	153.32

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ (190' NQ)
Casing depth: 45.00 (m) out

Drilling dates: Aug 20-25 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.56	3.56	OVB	
3.56	44.76	41.20	LST	Very rubbly, fossiliferous, dolomitized
44.76	95.40	50.64	OX	
95.40	101.50	6.10	DOL	
101.50	131.62	30.12	OX	
131.62	143.70	12.08	MBL	

SAMPLES

Numbers: H885778-H885820, H885882-H885908
Batches 46, 47, 49
Total: 57
Date sent:
Certificate: VA09098644, VA09098643, VA09100782

COMMENTS

The hole was ended at 151.32 m because the drillers ran out of rods. The rods were reduced to NQ at 190 ft.

GEOLOGY LOG

HOLE: Rau-09-53

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.56	3.56	OVB																			
3.56	44.76	41.20	LST	RBL	BN	BD							MBL	w								Medium grey bedded weakly fossiliferous rubbly limestone. There are zones within that become weakly to strongly marbleized. Fractured surfaces often have medium-orange-brown coating on them. Crinoid stem fragments occur weakly and are 0.2-0.4 cm in diameter, and slightly broken up in some cases. Bedding occurs at 75 deg to CA.
			LST	FOS									He	m								3.50-5.00 m: The limestone has a purple/grey tint to it. Hematite alteration (?) Recovery in this zone in poor.
			LST	ALT																		5.00-10.06 m: Very rubbly fluid collapse brecciated limestone with a quartz vein at 10.00 m. The core is very rubbly.
						BD	75															10.06-24.08 m: Bedded limestone with medium greyish brown silty limestone beds. The bedding contacts with these silty layers is often very irregular/wavy. The bedding roughly occurs at 75 deg to CA. Ca veins rarely cut the bedding at 60 deg to CA. Begin to see weak orange-brown alteration on some of the fractured surfaces. Overall the unit is quite rubbly.
						VN	60															
						BD	75															14.08-20.62 m: Fossiliferous banded limestone with bedding at 75 deg to CA. Very occasional thin 0.2-0.4 cm beds of grey-brown silt occur. There appears to be slight structural deformation to some of the core. The unit is fairly rubbly.
				ALT		VN	20															20.62-23.46 m: Moderately to strongly altered zone. Overall the limestone has a slightly bleached appearance. Overall the core is a buff pink-beige colour. Thin Ca veins cut the units. Some of these appear to be pre-alteration, while others are post. They occur at 20 and 60 deg to CA.
						VN	60															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						18.17-18.36 m: A vein of pure white calcite. The contact with the altered limestone is very irregular. An angular clast of altered limestone 1 cm by 0.5 cm occurs within this vein.
																						23.46-44.76 m: Moderately to strongly rubbly limestone with small zones of orange-brown and medium brown gritty clay (~10% Clay, 90% limestone).
			OX																			28.57-29.03 m: Zone of red-brown gritty oxidized clay contain quartz grit as well as small fragments of limestone. (COLOUR 7.5 YR 4/6 - strong brown).
						BD	85															31.50-40.50 m: Moderately marbleized banded limestone. Bedding flattens to ~85 deg to CA until 32.61 m. Within the marbleized limestone there are patches of orange-brown gritty clay containing fragments of limestone This clay mostly acts as a thick coating of fractures - overall 8% Clay, 92% Limestone.
						BD	60															32.61-37.49 m: Bedding is at 40 deg to CA.
						BD	40															37.49-40.50 m: Bedding is at 60 deg to CA.
																						40.50-44.76 : Banded limestone, moderately fractured up with orange-brown clay coating some of the fractures 5% clay, 90% lst.
						BD	60															40.50-43.59 m: Bedding occurs at 60 deg to CA.
						BD	40															43.59-44.76 m: Bedding occurs at 40 deg to CA.
																						The limestone appears to be structurally deformed with some augen-like clusters of white limestone deflecting the deformation. This structure defines the bedding of the light medium and medium-dark limestone beds.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
44.76	95.40	50.64	OX																			The oxide zone is a mixture of medium orange-brown oxide to dark red-black more sideritic zones to green-grey strongly altered limestone to medium brown quartz rich gritty clay. (COLOUR - 10YR 6/6 - brownish-yellow) No structures or textures are visible on the cored surface.
																						44.76-49.38 m: Medium orange brown gritty clay oxide with dark brown-black altered carbonate or siderite fragments (?). The fragments are angular and generally <1 cm in diameter but rarely occur up to 3 cm. (COLOUR 7.5 YR 4/6 - strong brown).
																						49.38-51.80 m: Dark red-purple/black dense siderite rubble.
																						51.41-51.80 m: More of a medium red-brown rubbly oxide containing large, up to 5 cm fragments of dense siderite (?)
																						51.80-52.73 m: Grey-green grit interval with grit and rubbly sized fragments of quartz up to 1 cm in diameter and sub-rounded. This unit is very similar to horizons in numerous other oxidized holes. Does it conform (???). (COLOUR GREY 1 5/10GY - grey green)
																						52.73-57.37 m: Medium orange-red-brown oxide grit with minor interstitial clay. Minor quartz fragments occur within particularly from, 52.73-52.80 m and 55.78-56.05 m. Notably both of these sections occur at the beginning of intervals immediately after marker blocks. (COLOUR 5YR 4/6 - yellowish red).
																						57.20-57.40 m: Begin to see yellow mica flakes. 5%.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	70															57.37-61.87 m: Medium grey-green strongly altered fissile limestone (?) Does NOT fizz with acid. FO runs at 70 deg to CA. Small intervals of red-orange-brown oxide occur in the following locations. 57.65-57.81 m, 57.93-58.09 m, 58.23-58.34 m, 58.83-59.00 m, 59.11-59.21 m, 59.51-59.72 m.
																						Within the main intervals there are dustings of yellow-orange clay material on some of the fractured surfaces. This gives the whole interval a slight greenish colouration.
																						61.87-67.05 m: Dark red-purple siderite rich grit and rubble zones with small patches of bright yellow/orange oxide. Quartz rubble occurs throughout but is most concentrated from 64.92-67.05 m. Very fine grained flakes of yellow mica occur scattered throughout.
																						64.69-64.92 m: Zone of dark grey strongly altered limestone (?) with very fine grained mica flakes scattered throughout.
																						67.05- 75.37 m: Tan-orange-brown silty clay with minor rubbly fragments of quartz and siderite.
																						75.37-75.59 m: Red-brown siderite gritty rubbly zone with some patches of bright orange oxide.
																						78.64-81.69 - NO RECOVERY.
																						81.69-83.21 m: Very quartz rich interval with sub-rounded rubble up to 1.5 cm in diameter.
																						32.21-84.73 m: Green-grey and yellow-orange-taupe-brown clay. Possibly more of an altered limestone with less original sulphides. Does not fizz with acid. Within the grey coloured material there are small < 1 cm plate like fragments of medium grey limestone (?).
																						84.73-89.31 m: Medium orange-brown to brown quartz rubbly rich clay with flakes of yellow mica ~ 1% overall. Quartz ~ 15%.
																						87.78-89.31 m: Particularly quartz rich interval with poor recovery.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						89.73-90.83 m: Dark grey/black quartz grit clay with small patches of yellow/green clay material. Quartz grit up to small gravel ~ 1 cm in diameter occurs 10% overall.
																						90.83-95.40 m: Medium orange-red-brown clay with sericite grit throughout some zones.
																						90.83-91.50 m: Yellow-orange-brown clay oxide with minor medium brown gritty fragments.
																						91.50-92.35 m: Blood-red oxide clay with minor dark brown/black gritty fragments within.
																						92.35-95.40 m: Medium orange-brown sideritic gritty clay. Some of the siderite fragments have a bright yellow-orange clay coating on them.
95.40	101.50	6.10	DOL	ALT									Sid	m	w							Moderately altered zone of dolomite and more altered sideritic rubble. The dolomite does not appear to be very coarse grained and contains weak-fair, strongly oxidized sulphides. Other competent strongly altered dolomite (?) occurs as massive, dark red-brown with no visible structures or textures.
101.50	131.62	30.12	OX																			Interbanded zone of yellow/grey highly altered volcaniclastic (?) with medium yellow-orange-brown strongly altered carbonate (?). Recovery is not great.
																						101.50 -102.00 m: Volcaniclastic.
																						102.00-105.50 m: Carbonate.
																						105.50-106.50 m: Volcaniclastic.
																						106.50-107.59 m: Carbonate.
						BD	50															107.59-113.69 m: Medium yellow-brown and medium to dark red-brown highly altered dolomite. Fractured surfaces have a sort of pitted appearance with a mottled red-orange-brown colouration. Also a faint banding occurs in some of the fragments at 50 deg to CA.
																						111.35 m: Core has a vuggy texture on the outside.
																						111.35-111.60 m: Faint breccia texture occurs.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						111.60-113.69 m: Dark brown strongly altered carbonate (?) with fine spots of creamy yellow mica or sericite (?).
																						113.69-114.34 m: Yellow-orange strongly altered volcaniclastic (?) with thin layers of dark red-brown altered carbonate (?) Some is very rubbly and broken up.
																						114.34-117.90 m: Dark brown altered carbonate with small 1-3 mm patches of creamy-yellow sericite (?).
						FO	80															117.90-128.93 m: Dark orange-red-brown strongly oxidized rock. Starting at 121.50 the rock becomes progressively vuggy/boxwork textured. FO runs at 80 deg to CA. Fractures and the cored surface have a bright orange oxide stain/coating on them.
						BD	80															128.93-131.62 m: Medium orange-brown clay oxide with relict banding at 80 deg to CA, and small zone of fine angular breccia and < 1 mm sparkly white mica flakes - 3% overall. Lower contact is extremely sharp
131.62	143.70	12.08	MBL			BD	70								t							White-light grey marble with silty bands at 70 deg to CA. Weak foliation runs at 50 deg to CA. Zones of more of a marbleized limestone occur. Also very fine grained pyrite occurs disseminated trace overall. Upper contact is very sharp at 80 deg to CA.
						FO	50															
						VN	80															
																						135.03-135.70 m: Marbleized medium grey brecciated limestone.
																						139.15-140.35 m: Marbleized brecciated limestone.
															w							140.35-143.70 m: A slightly orange-brown tint occurs in a banded manner within the marble at 50 deg to CA. Within this zone pyrite occurs weakly disseminated.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
143.70	146.41	2.71	LST	ALT								f	MBL	m								Moderately marbleized fossiliferous limestone which has strong structural deformation at 40 deg to CA. Veins of oxidized sulphides occur at 25 deg to CA.
146.41	151.32	4.91	DOL																			Light pinkish coarse grained dolomite with patchy medium grained pyrite (weak overall). More oxidized zones occur, many contain in slightly increased concentration of sulphides.
																						151.32 m: E.O.H - the hole was ended because they ran out of rods.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-53

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.56	3.96	0.40	0.33	83	0.00	0	MS	SW	
3.96	5.49	1.53	0.45	29	0.24	16	MS	SW	
5.49	7.01	1.52	0.75	49	0.28	18	MS	SW	
7.01	8.53	1.52	0.85	56	0.20	13	MS	SW	
8.53	11.58	3.05	0.64	21	0.00	0	MS	SW	
11.58	13.11	1.53	1.30	85	0.44	29	MS	SW	
13.11	14.63	1.52	1.47	97	0.83	55	MS	SW	
14.63	16.15	1.52	1.49	98	0.99	65	MS	SW	
16.15	17.68	1.53	1.12	73	1.52	99	MS	SW	
17.68	19.20	1.52	1.52	100	0.21	14	MS	SW	
19.20	20.73	1.53	1.53	100	0.00	0	MS	SW	
20.73	22.25	1.52	1.52	100	0.27	18	MS	SW	
22.25	23.77	1.52	1.45	95	0.96	63	MS	SW	
23.77	25.30	1.53	1.18	77	0.35	23	MS	SW	
25.30	26.82	1.52	1.35	89	0.11	7	MS	SW	
26.82	28.35	1.53	0.95	62	0.00	0	MS	SW	
28.35	29.87	1.52	1.23	81	0.00	0	MS	SW	
29.87	31.39	1.52	1.10	72	0.00	0	MS	SW	
31.39	32.92	1.53	1.08	71	0.11	7	MS	SW	
32.92	34.44	1.52	1.19	78	0.38	25	MS	SW	
34.44	35.97	1.53	0.82	54	0.00	0	MS	SW	
35.97	37.49	1.52	1.06	70	0.27	18	MS	SW	
37.49	39.01	1.52	1.35	89	0.25	16	MS	SW	
39.01	40.54	1.53	1.29	84	0.12	8	MS	SW	
40.54	42.06	1.52	0.97	64	0.10	7	MS	SW	
42.06	43.59	1.53	0.89	58	0.10	7	MS	SW	
43.59	45.11	1.52	1.43	94	0.17	11	VW	HW	
45.11	46.63	1.52	1.08	71	0.00	0	VW	HW	
46.63	48.16	1.53	1.30	85	0.00	0	EW	EW	
48.16	51.21	3.05	3.05	100	3.05	100	EW	EW	
51.21	52.73	1.52	0.75	49	0.75	49	EW	EW	
52.73	54.25	1.52	0.44	29	0.44	29	EW	EW	
54.25	55.78	1.53	1.53	100	1.53	100	EW	EW	
55.78	58.83	3.05	2.05	67	2.05	67	EW	EW	
58.83	60.35	1.52	1.52	100	1.52	100	EW	EW	
60.35	61.87	1.52	1.26	83	1.26	83	EW	EW	
61.87	63.40	1.53	0.08	5	0.08	5	EW	EW	
63.40	64.92	1.52	1.45	95	1.45	95	EW	EW	
64.92	66.45	1.53	1.21	79	1.21	79	EW	EW	
66.45	67.97	1.52	1.02	67	1.02	67	EW	EW	
67.97	69.49	1.52	1.16	76	1.16	76	EW	EW	
69.49	71.02	1.53	0.75	49	0.75	49	EW	EW	
71.02	72.54	1.52	0.52	34	0.52	34	EW	EW	
72.54	74.07	1.53	1.04	68	1.04	68	EW	EW	
74.07	75.59	1.52	1.35	89	1.35	89	EW	EW	
75.59	77.11	1.52	1.26	83	1.26	83	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
77.11	78.64	1.53	0.10	7	0.10	7	EW	EW	
78.64	80.16	1.52	0.00	0	0.00	0	EW	EW	
80.16	81.69	1.53	0.00	0	0.00	0	EW	EW	
81.69	83.21	1.52	0.37	24	0.37	24	EW	EW	
83.21	84.73	1.52	1.52	100	1.52	100	EW	EW	
84.73	86.26	1.53	0.27	18	0.27	18	EW	EW	
86.26	87.78	1.52	0.58	38	0.59	38	EW	EW	
87.78	89.31	1.53	0.20	13	0.20	13	EW	EW	
89.31	90.83	1.52	0.61	40	0.61	40	EW	EW	
90.83	92.35	1.52	1.08	71	1.08	71	EW	EW	
92.35	93.88	1.53	0.90	59	0.90	59	EW	EW	
93.88	95.40	1.52	1.32	87	1.32	87	EW	EW	
95.40	98.45	3.05	1.25	41	0.32	10	VW	EW	
98.45	101.50	3.05	1.23	40	0.54	18	VW	EW	
101.50	104.55	3.05	1.49	49	0.11	4	VW	EW	
104.55	107.59	3.04	2.48	82	0.00	0	EW	EW	
107.59	110.64	3.05	1.45	48	0.00	0	EW	EW	
110.64	113.69	3.05	1.92	63	0.00	0	EW	EW	
113.69	116.74	3.05	1.61	53	0.00	0	EW	EW	
116.74	119.79	3.05	1.89	62	0.00	0	EW	EW	
119.79	122.83	3.04	2.81	92	0.00	0	EW	EW	
122.83	125.88	3.05	2.91	95	0.46	15	EW	EW	
125.88	128.93	3.05	1.65	54	0.31	10	EW	EW	
128.93	131.98	3.05	2.24	73	0.35	11	MW	HW	
131.98	135.03	3.05	2.80	92	2.98	98	MW	HW	
135.03	138.07	3.04	3.04	100	2.48	82	MS	FR	
138.07	141.12	3.05	2.94	96	2.57	84	MS	SW	
141.12	144.17	3.05	2.90	95	2.64	87	MS	SW	
144.17	147.22	3.05	2.64	87	2.00	66	MS	SW	
147.22	150.27	3.05	2.97	97	2.66	87	MS	SW	
150.27	151.32	1.05	1.05	100	1.05	100	MS	SW	
	151.32	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-53

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
25.58	28.57	2.99	2.99	100	H885778	6.0	46	<0.01	0.20	109	0.70	
28.57	29.03	0.46	0.46	100	H885779	1.5	46	0.01	0.63	2690	285.00	
29.03	31.50	2.47	1.53	62	H885781	6.0	46	<0.01	0.14	31	1.33	
31.50	34.44	2.94	2.90	99	H885782	6.0	46	0.01	0.15	168	1.38	
34.44	37.49	3.05	2.84	93	H885783	6.0	46	0.01	0.06	30	0.22	
37.49	40.54	3.05	3.05	100	H885784	9.0	46	<0.01	0.09	44	0.44	
40.54	43.59	3.05	2.51	82	H885785	6.0	46	0.01	0.34	174	2.64	
43.59	44.76	1.17	0.96	82	H885786	4.0	46	0.02	0.42	103	0.36	
44.76	46.63	1.87	1.32	71	H885799	5.0	46	0.02	1.82	4350	320.00	
46.63	49.38	2.75	2.35	85	H885800	8.5	46	0.20	1.31	9970	760.00	
49.38	51.88	2.50	2.25	90	H885801	11.5	46	0.23	12.45	11600	1140.00	
51.88	52.73	0.85	0.19	22	H885803	1.0	46	2.25	36.00	2210	490.00	
52.73	54.25	1.52	0.45	30	H885804	2.0	46	0.84	28.50	26700	606.00	
54.25	55.78	1.53	1.53	100	H885805	6.0	47	2.41	2.27	30200	2080.00	
55.78	57.37	1.59	0.65	41	H885806	2.5	47	0.50	0.56	8220	83.70	
57.37	60.35	2.98	2.94	99	H885807	11.5	47	0.55	0.29	2780	23.70	
60.35	61.87	1.52	1.30	86	H885808	5.0	47	0.38	0.17	2390	11.30	
61.87	63.40	1.53	0.09	6	H885809	1.0	47	0.62	0.48	4840	14.00	
63.40	64.92	1.52	1.43	94	H885810	4.5	47	5.23	0.39	9900	186.50	
64.92	67.05	2.13	1.76	83	H885811	5.5	47	5.71	0.88	29600	534.00	
67.05	71.02	3.97	2.39	60	H885812	6.0	47	2.40	0.47	9690	185.50	
71.02	72.54	1.52	0.53	35	H885815	1.5	47	1.79	0.42	13700	78.40	
72.54	75.59	3.05	2.15	70	H885816	7.0	47	1.21	0.58	12800	65.40	
75.59	77.11	1.52	1.30	86	H885817	3.5	47	4.66	2.70	15900	63.90	
77.11	78.64	1.53	0.09	6	H885819	0.5	47	3.45	8.05	12300	73.70	
81.69	83.21	1.52	0.33	22	H885820	1.0	47	0.71	0.51	9830	76.40	
83.21	84.73	1.52	1.52	100	H885882	5.0	49	1.18	0.42	7460	85.40	
84.73	86.26	1.53	0.25	16	H885883	0.5	49	0.63	0.36	32100	55.30	
86.26	87.78	1.52	0.58	38	H885884	2.0	49	1.90	1.17	23100	734.00	
87.78	89.31	1.53	0.17	11	H885885	0.5	49	1.34	1.95	10900	834.00	
89.31	90.83	1.52	0.62	41	H885886	2.0	49	9.91	56.20	31200	1750.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
90.83	92.35	1.52	1.07	70	H885887	3.0	49	4.25	22.00	20600	2610.00	
92.35	93.88	1.53	0.81	53	H885889	2.0	49	5.57	31.40	35700	333.00	
93.88	95.40	1.52	0.30	20	H885890	3.5	49	3.37	1.14	41600	426.00	
95.40	98.45	3.05	1.19	39	H885892	2.0	49	0.89	0.84	10400	203.00	
98.45	101.50	3.05	1.13	37	H885893	3.0	49	0.33	0.15	5710	26.10	
101.50	104.55	3.05	1.45	48	H885894	3.0	49	0.17	0.18	9510	10.55	
104.55	107.59	3.04	2.45	81	H885895	5.0	49	0.14	0.13	5870	6.24	
107.59	110.64	3.05	1.38	45	H885897	3.0	49	0.34	0.19	12100	3.41	
110.64	113.69	3.05	2.03	67	H885898	5.0	49	0.22	0.98	15000	39.60	
113.69	114.34	0.65	0.65	100	H885899	1.5	49	0.09	0.12	7160	18.55	
114.34	116.74	2.40	1.18	49	H885900	2.0	49	0.10	0.18	13500	21.60	
116.74	117.90	1.16	1.16	100	H885901	2.5	49	0.05	0.09	15600	16.15	
117.90	119.79	1.89	0.83	44	H885902	1.5	49	0.13	0.11	19000	52.60	
119.79	122.83	3.04	1.85	61	H885903	4.0	49	0.08	0.13	18900	44.90	
122.83	125.88	3.05	1.98	65	H885904	4.0	49	0.06	0.34	20000	8.36	
125.88	128.93	3.05	1.94	64	H885905	4.5	49	0.06	0.28	39800	22.40	
128.93	131.62	2.69	1.97	73	H885906	3.5	49	0.86	1.92	20800	2.74	
131.62	134.00	2.38	2.38	100	H885908	6.5	49	<0.01	0.03	62	0.09	
134.00	137.00	3.00	2.78	93	H885909	7.5	49	0.02	0.05	167	0.10	
137.00	140.35	3.35	3.20	96	H885910	8.5	49	0.01	0.04	16	0.12	
140.35	142.00	1.65	1.50	91	H885911	4.0	49	<0.01	0.03	36	0.13	
142.00	143.70	1.70	1.60	94	H885912	5.0	49	<0.01	0.04	10	0.15	
143.70	146.41	2.71	2.34	86	H885913	6.5	50	0.04	1.57	297	49.20	
146.41	149.08	2.67	2.64	99	H885140	7.0	53	0.01	1.31	68	89.00	
149.08	151.32	2.24	2.22	99	H885141	6.0	53	0.01	0.98	105	11.50	
-	-	-			H885780	0.3	46	1.56	1.71	27200	332.00	Standard R-2
-	-	-			H885802	4.0	46	<0.01	0.01	35	1.43	Blank
-	-	-			H885814	0.3	47	5.41	0.21	22800	486.00	Standard R-3
-	-	-			H885818	3.5	47	0.05	0.02	315	1.43	Blank
-	-	-			H885888	4.0	49	0.01	0.07	54	4.03	Blank
-	-	-			H885891	0.3	49	5.33	0.37	49000	510.00	Standard R-3
-	-	-			H885896	4.0	49	<0.01	0.01	22	0.36	Blank

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
128.93	131.62	2.69	1.97	73	H885907	2.0	49	0.98	1.89	22000	1.12	Duplicate
-	-	-			H885142	0.3	53	5.71	0.19	36600	467.00	Standard R-3

BOX DENSITY LOG

HOLE: Rau-09-53

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
10	45.88	50.60	6.12	OX	CLY	3.74	63.0	2.60	
11	50.60	57.05	6.12	OX	CLY	3.69	58.0	2.42	
12	57.05	61.16	6.12	OX	CLY	4.01	55.0	2.11	
13	61.16	67.10	6.12	OX	CLY	3.87	48.0	1.91	
14	67.10	73.30	6.12	OX	CLY	3.45	45.0	2.01	
15	73.30	83.21	6.12	OX	CLY	3.28	43.0	2.02	
16	83.21	91.02	6.12	OX	CLY	3.22	49.0	2.35	
17	91.02	95.40	6.12	OX	CLY	3.18	40.0	1.94	
18	95.40	105.08	5.08	DOL/VOL	OX	4.31	42.0	2.18	
19	105.08	111.60	5.08	VOL/OX	OX	4.23	43.0	2.27	
20	111.60	117.90	5.08	DOL	OX	4.06	42.0	2.32	
21	117.90	125.88	5.08	LIM	OX	4.75	44.0	2.07	

DENSITY LOG

HOLE: Rau-09-53

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
148.00	DOL			14.2	5.1	815.4	526.6	2.83	2.82
151.00	DOL			14.5	5.1	848.5	554.6	2.89	2.89

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-53

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.00	LST	FOS	0.01	
5.00	LST	FOS	0.06	
6.00	LST	FOS	0.03	
7.00	LST	FOS	0.03	
8.00	LST	FOS	0.01	
9.00	LST	FOS	0.00	
10.00	LST	FOS	0.01	
11.00	LST	FOS	0.00	
12.00	LST	FOS	0.01	
13.00	LST	FOS	0.01	
14.00	LST	FOS	0.05	
15.00	LST	FOS	0.01	
16.00	LST	FOS	0.05	
17.00	LST	FOS	0.06	
18.00	LST	FOS	0.01	
19.00	LST	FOS	0.01	
20.00	LST	FOS	0.01	
21.00	LST	FOS	0.05	
22.00	LST	FOS	0.03	
23.00	LST	FOS	0.13	
24.00	LST	FOS	0.01	
25.00	LST	FOS	0.03	
26.00	LST	FOS	0.00	
27.00	LST	FOS	0.01	
28.00	LST	FOS	0.03	
29.00	LST	FOS	2.26	
30.00	LST	FOS	0.01	
31.00	LST	FOS	0.00	
32.00	LST	FOS	0.01	
33.00	LST	FOS	0.00	
34.00	LST	FOS	0.01	
35.00	LST	FOS	0.01	
36.00	LST	FOS	0.03	
37.00	LST	FOS	0.00	
38.00	LST	FOS	0.01	
39.00	LST	FOS	0.01	
40.00	LST	FOS	0.01	
41.00	LST	FOS	0.31	
42.00	LST	FOS	0.11	
43.00	LST	FOS	0.00	
44.00	LST	FOS	0.00	
45.00	OX	CLY	0.50	
46.00	OX	CLY	0.35	
47.00	OX	CLY	0.82	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
48.00	OX	CLY	0.28	
49.00	OX	CLY	0.58	
50.00	OX	CLY	1.04	
51.00	OX	CLY	0.75	
52.00	OX	CLY	0.50	
53.00	OX	CLY	0.11	
54.00	OX	CLY	0.53	
55.00	OX	CLY	0.42	
56.00	OX	CLY	0.06	
57.00	OX	CLY	0.45	
58.00	OX	CLY	0.31	
59.00	OX	CLY	0.97	
60.00	OX	CLY	0.20	
61.00	OX	CLY	0.53	
62.00	OX	CLY	0.36	
63.00	OX	CLY	0.36	
64.00	OX	CLY	0.52	
65.00	OX	CLY	0.40	
66.00	OX	CLY	0.53	
67.00	OX	CLY	0.26	
68.00	OX	CLY	0.13	
69.00	OX	CLY	0.33	
70.00	OX	CLY	0.16	
71.00	OX	CLY	0.23	
72.00	OX	CLY	0.35	
73.00	OX	CLY	0.28	
74.00	OX	CLY	0.18	
75.00	OX	CLY	0.45	
76.00	OX	CLY	0.33	
77.00	OX	CLY	0.43	
78.00	OX	CLY	0.28	
79.00	OX	CLY	-	
80.00	OX	CLY	-	
81.00	OX	CLY	-	
82.00	OX	CLY	0.23	
83.00	OX	CLY	0.35	
84.00	OX	CLY	0.03	
85.00	OX	CLY	0.02	
86.00	OX	CLY	0.20	
87.00	OX	CLY	0.06	
88.00	OX	CLY	0.06	
89.00	OX	CLY	0.16	
90.00	OX	CLY	0.10	
91.00	OX	CLY	0.21	
92.00	OX	CLY	0.36	
93.00	OX	CLY	0.15	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
94.00	OX	CLY	0.35	
95.00	OX	CLY	0.40	
96.00	DOL		0.00	
97.00	DOL		0.23	
98.00	DOL		0.25	
99.00	DOL		0.10	
100.00	DOL		0.10	
101.00	DOL		0.42	
102.00	OX	CLY	0.29	
103.00	OX	CLY	0.51	
104.00	OX	CLY	0.12	
105.00	OX	CLY	0.38	
106.00	OX	CLY	0.43	
107.00	OX	CLY	0.12	
108.00	OX	CLY	0.54	
109.00	OX	CLY	0.12	
110.00	OX	CLY	0.10	
111.00	OX	CLY	0.10	
112.00	OX	CLY	0.20	
113.00	OX	CLY	0.38	
114.00	OX	CLY	0.25	
115.00	OX	CLY	0.09	
116.00	OX	CLY	0.09	
117.00	OX	CLY	0.21	
118.00	OX	CLY	0.29	
119.00	OX	CLY	0.29	
120.00	OX	CLY	0.23	
121.00	OX	CLY	0.34	
122.00	OX	CLY	0.16	
123.00	OX	CLY	0.36	
124.00	OX	CLY	1.22	
125.00	OX	CLY	0.58	
126.00	OX	CLY	0.32	
127.00	OX	CLY	0.26	
128.00	OX	CLY	0.16	
129.00	OX	CLY	0.20	
130.00	OX	CLY	0.07	
131.00	OX	CLY	0.11	
132.00	MBL		0.01	
133.00	MBL		0.10	
134.00	MBL		0.03	
135.00	MBL		0.05	
136.00	MBL		0.02	
137.00	MBL		0.01	
138.00	MBL		0.03	
139.00	MBL		0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
140.00	MBL		0.02	
141.00	MBL		0.00	
142.00	MBL		0.02	
143.00	MBL		0.01	
144.00	DOL		0.22	
145.00	DOL		0.03	
146.00	DOL		0.76	
147.00	DOL		0.28	
148.00	DOL		0.20	
149.00	DOL		0.25	
150.00	DOL		0.18	
151.00	DOL		0.38	

BOX LOG

HOLE: Rau-09-53

BOX	FROM (m)	TO (m)
1	3.56	11.58
2	11.58	15.17
3	15.17	18.60
4	18.60	22.25
5	22.25	26.62
6	26.62	31.31
7	31.31	35.51
8	35.51	40.95
9	40.95	45.88
10	45.88	50.60
11	50.60	57.05
12	57.05	61.16
13	61.16	67.10
14	67.10	73.30
15	73.30	83.21
16	83.21	91.02
17	91.02	95.40
18	95.40	105.08
19	105.08	111.60
20	111.60	117.90
21	117.90	125.88
22	125.88	133.26
23	133.26	139.15
24	139.15	144.75
25	144.75	147.22
26	147.22	151.32
	151.32	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 9+700 NW

HOLE: Rau-09-54
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528730	7118858	1386	376.43

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-75	compass				

Core size: BTW
Casing depth: 25.00 (m) out

Drilling dates: August 22-27 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.40	1.40	OVB	
1.40	24.45	23.05	LST	
24.45	41.81	17.36	VOL	Altered
41.81	128.12	86.31	LST	Variably altered, mineralized, and Qz rich
128.12	128.93	0.81	VOL	Altered
128.93	176.77	47.84	LST	Variably altered and mineralized
176.77	197.62	20.85	VOL	Mineralized
197.62	353.22	155.6	LST	Marbleized in parts
353.22	356.17	2.95	SHL	
356.17	361.94	5.77	LST	
361.94	363.83	1.89	DOL	
363.83	376.43	12.6	LST	

SAMPLES	
Numbers:	H885763-H885798, H885821-H885878
	Batches 45,46,47,48,49
Total:	107
Date sent:	
Certificate:	VA09098645, VA09098644, VA09098643
	VA09100781, VA09100782

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-54

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.40	1.40	OVB																			
1.40	24.45	23.05	LST		BX										t							Medium grey crackle to strongly fluid collapse brecciated limestone with trace pyrite. Occasionally there are rubbly moderately altered zones 10-20 cm thick. Fractured surfaces are yellow-orange-brown in colour. Pyrite is trace disseminated.
																						1.40-7.32 m: Massive medium grey limestone.
						VN	40															7.32-15.39 m: Medium grey and white fluid brecciated limestone. Ca veins 0.5-1 cm thick cut at 30-50 deg to CA.
						BD	60															15.39-16.02 m: White limestone banded by irregular feathery stringers of dark grey limestone. These bands run at 60 deg to CA, and are typically 1-3 mm thick. Possibly remobilized banding by fluids.
																						16.02-18.29 m: Medium to dark grey micaceous limestone (???) There appears to be thin flakes of muscovite. The whole interval is fluid collapse brecciated. At 18.29 m there is a 1 cm quartz veins.
																						18.29-24.45 m: Medium grey fluid collapse brecciated limestone.
													Sid	f	m							19.00-19.10 m: Oxidized looking zone possibly siderite containing moderate pyrite finely disseminated. Is quite heavy.
24.45	41.81	17.36	VOL	ALT						m					f		w					Mixture of altered and unaltered volcaniclastic with and without amygdules. Pyrite and pyrrhotite mostly confined to altered zones.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	60								m		w					24.45-29.39 m: Light green altered volcaniclastic with irregularly banded sericite alteration. Pyrite occurs as moderate stringers and veins, pyrrhotite occurs as weak patches. The pyrite stringers occur at 60 deg to CA. Amygdules occur weakly 0.2-0.8 cm in diameter only weakly deformed and filled by Ca and or Py. From 28.15-29.39 m there is a gradual decrease in the extent of alteration. The lower contact is gradual.
						FO	50								t		w					29.39-34.20 m: Dark greyish brown strongly amygduloidal volcaniclastic with calcite infilling of amygdules and moderate deformation. The structural fabric (FO) runs at 50 deg to CA and thin Ca veinlets follow this orientation. There is less pyrite and more pyrrhotite. Pyrite is trace-disseminated overall with a concentrated zone within the upper 50 cm of the interval. Pyrrhotite occurs as weakly to finely disseminations as well as concentrated in the Ca filled amygdules.
						VN	50	0														
						VN	60	180							35		35					29.62-29.70m : Band of semi-massive pyrrhotite surrounded by semi-massive pyrite running at 60 deg to CA. 4 cm of pyrrhotite is surrounded by 2 cm of pyrite on either side.
						VN	60								w		w					34.20-38.62 m: Pale brown moderately bleached looking weakly amgduloidal are weakly disseminated with the pyrite concentrated in rare bands. Quite coarse grained Ca veins occur at 60 deg to CA.
						FO	50								s		w					38.62-41.81 m: Yellowish-grey-green sericite altered volcaniclastic with strongly disseminated pyrite bands throughout and only weak patchy pyrrhotite. The structural FO occurs at 50 deg to CA. Pyrite bands are somewhat irregular and occur at 50 deg to CA following the foliation and are 0.1-1 cm thick.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
41.81	85.96	44.15	LST		CR										w							Medium grey crackled to strongly brecciated limestone with zones of more massive light grey marbleized limestone with rubbly orange-brown altered zones 5-10 cm thick. Pyrite occurs throughout weakly but there are zones where it is quite strongly disseminated. No visible pyrrhotite. Locally fossiliferous with crinoids and some chain corals. Sugary, flaky look of some brecciated regions likely due to muscovite.
																						44.50-48.00 m: Strongly marbleized limestone with rubbly orange-brown altered zones 5-10 cm thick.
															l	w						52.60-53.84 m: Medium grey strongly fluid collapse brecciated limestone with 15-20% heavily disseminated to patchy pyrite with large crystals up to 1.5 cm. Arsenopyrite crystals that appear to be in the process of being broken down and replaced by pyrite (weak overall).
						BD	70															67 m: Bedding occurs at 70 deg to CA.
																						72-73 m: Slightly whiter and more marbleized. Orangey-brown crumble occurs on fractures
																						82 m: Pyrite starts to pick up in calcite veinlets, stringers and disseminations nearby. Also after 85m, thin ca veins occur every 1-5cm at 30-40 degrees.
85.96	95.48	9.52	LST	MX											s		t					Generally medium to dark grey crackle brecciated limestone with "interbeds" of semi-massive to massive pyrite, with some intergrown Po in some sections. Perhaps 10% Py overall, 1-2% Po. Crosscutting Ca veinlets. Some quite coarse grained Py (up to 1cm cubes).
															70		10					87.35-87.76 m: Semi-massive to massive pyrite (70%), medium grained masses with finer grained Po (10%) infill between. First 20 cm (to 87.55 m) is a band of massive Py at around 20 degrees, 6 cm thick, surrounded by white talc.
															f							87.76-91.00 m: Non mineralized limestone.
															80							91.75-92.45 m: Semi-massive grading into massive, fine-grained Py.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
95.48	101.87	6.39	QZ												25		15					Mixture of Qz (60%) and heavily disseminated to massive sulphides. (40%) A few regions of thin calcite stringers and veinlets along with talc. Around 25% Py, 15% Po, generally in separate, massive bands, but also intermingled.
															60		20					99.95-101.87 m: Semi-massive sulphides.
															10		80					99.89-100.08 m, and 100.71-101.07 m: 70-90% Po, blotchy/semi-massive, with very little Py.
															65		5					100.30-100.70m and 101.07-101.87m Concentration of pyrite as semi-massive, with up to 5% Po.
																						97 m: acicular aragonite clusters
101.87	121.83	19.96	LST	ALT					m				MBL	f								Generally calcareous, softer (< 2.5 in places), white, coarse recrystallized dolomitized limestone? Stringers and bands of Py and Po associated with quartz veinlets at 70-80 deg to Ca. Po +/- Py bands, up to 5 cm thick, concentrated disseminations, sometimes associated with minor bluish-green chlorite alteration. Prevalent muscovite? white, soft flakes throughout. Some gradual interbeds of more dark grey, recrystallized, marbleized limestone breccia.
																						114 m: Ca +/- Po vein at 75 deg to CA.
						VN	75								10		40					116.49-116.58 m, 117.10-117.21 m: Bands of semi-massive Po (+ minor Py) seemingly infilling gaps in Cl altered zone.
						VN	45								60		30					120.07-120.12 m: Band of massive intergrown Po/Py at 45 deg to CA. Py slightly more coarse-grained around a core of finer Po.
121.83	128.12	6.29	LST	ALT	CR	FO	50						MBL	m								Grey to dark grey crackled to brecciated (and slightly foliated) weakly marbleized limestone. Stringers and disseminations of Py. Some variously crosscutting Ca +/- Qz veinlets up to 2 cm thick. Marbleization increases towards bottom contact (128.12 m).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
128.12	128.93	0.81	VOL		FO	FO	30															Blue-green to yellowish-grey, foliated, crumbly, greasy volcaniclastic. Quite sericite altered. Poor recovery on next run? So end block might be further (thicker layer). First 10 cm is blue-green chlorite altered.
128.93	143.55	14.62	LST		CR	FO	35								w							Grey to dark grey Ca +/- Qz flood (15%) and crackled, foliated limestone with coarse calcite crystals and trace-weak fine scattered disseminated pyrite. Calcite flood/crackle infill seems based along banding.
															w							131.50-131.90 m and 128.93-129.05 m: Strongly (up to 70%) Qz flooded with minor increase in Py.
						FO	30															143.00-143.55 m: Sheared? or stepped at 30 deg (Ca veinlets offset). Py increases to 10% by end and seems to be secondary along shear fabric.
143.55	153.43	9.88	LST	MX											60							Banded or brecciated limestone with quartz and very heavily mineralized (Py) zone. There is a central massive pyrite section surrounded by alternating regions of semi-massive to massive Py.
															60							143.55-145.96m Mixture of pure white quartz and semi to massive fine (and occasionally medium) grained pyrite replacing greyish dolomite? (only slightly fizzy). Irregular replacement, patchwork pattern. 60% Py, 30% quartz, 10%DOL
															20							145.96-147.18 m: Wispy to heavy STR fine Py formed in weak ~50% FO of brecciated medium grey limestone.
															95+							147.18-150.03 m: Weakly foliated, fine-grained, nearly massive Py with only minor Qz/Ca. Foliation is variable, generally low angle.
						FO	0															147 m: FO at 0 deg to CA.
						FO	15															148 m: FO at 15 deg to CA.
						FO	25															148.00-149.00 m: FO at 25 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						150.03-153.45 m: Mix of semi-massive Py replacing dolomite, and interlayered limestone and pyrite stringers.
153.43	176.77	23.34	LST	ALT		VN	40		m						w		t	Sp	t	Gn	t	White to dark grey dolomitized limestone with intense fluid brecciation and quartz replacement. Crosscutting Ca and minor coarse grained Qz veins are 0.1-5 cm thick, running subparallel to foliation. One has blebs of reddish-yellow sphalerite . Blebs of sphalerite/galena in vuggy quartz/carbonate veinlets crosscutting at 20-50 deg to CA. After brecciation. Medium-semi massive pyrite intervals from 157.06-157.16 m and 172.70-172.76 m.
						FO	40															
176.77	197.62	20.85	VOL	MX											f		ms	Cp	t	Bi	t	Variably altered, variably mineralized amygduloidal volcaniclastic with Qz +/- Ca veining/flood. Colour varies from tan to dark green to brown. Sericite/chlorite alteration and bleaching. Also trace bismuthinite, chalcopyrite, and bronzy mineral.
						CN	50								ms		15			Bi	t	176.77-179.56m weakly foliated, chlorite altered, heavily mineralized volcaniclastic with 10% quartz flood. Patchy sericite alteration. Sharp upper contact at 50 deg to CA. Lower contact is gradational.
						VT	55								ms		ms					Py/Po mineralization varies from moderately - strongly disseminated to semi-massive banded. Some bands (178.42-178.65 m) of fine-grained, nearly massive pyrrhotite (75%) and pyrite (25%). Generally quartz veins are quite pure and mineralization is in the surrounding rock.
															m		m					After 178.78 m mineralization drops off, to moderately disseminated Po and some patchy Py

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
			AM			FO	40		s													179.56-182.04 m: Light yellowish-green strongly sericite altered, amygdaloidal (usually quartz filled) 0.1-0.3cm) Weakly foliated (some stringers at start, then alignment of vesicles.) Peppered with rimmed small brown 1-2 mm squares (ex calcite?) Also thin, irregular stringers with Po. Qz 5%, Ca 3-5%. Less intense alteration towards lower contact.
															5		20	Bi	w	Cp	t	182.04-183.43m Mineralization is a mixture of chlorite/sericite altered volcaniclastic and Qz flood (30%). Po is most common sulphide, occurring as vesicle fill in1-5 mm blebs and as fine-grained, massive replacement, especially in vicinity of Qz flood. Weak occurrence of pinkish bronze, shiny soft, coarse-grained unidentified mineral, usually adjacent to Po/Bi and in the vicinity of Qz. Bismuthinite occurs as large, rectangular crystalline masses up to 1 cm, steely grey. Also yellowy white, matte colour geometric coarse-grained crystals. A few, 1 cm rhombic to triangular with flattened corners. Unknown. (1-3%)
															f		m					183.43-185.32m Dark greyish-brown, fairly massive, fine-grained, Po bearing volcaniclastic with crosscutting pyrite veins (replacing Ca?) at 30 and 50 deg to CA. Py occurs only within veins, and is medium grained.
										s					w		m					185.32-197.73 m: Tan to slightly greenish-brown, amygduloidal sericite altered volcaniclastic with zones of sericite alteration and/or bleaching. Generally fine-grained with a weak foliation at 40 deg to CA. Qz/Ca fills vesicles. Mineralization is weakening. Po occurs fine disseminations, as well as blotchy to semi-massive in a few places. Intensely altered zones highlight vesicles.
																						187.38-187.76m Bleached, "plasticy looking" sericite altered zones with irregular boundaries and inclusions/clasts of wallrock. Po replacing square (rimmed) crystals.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
197.62	212.30	14.68	LST	ALT					s								w					Light grey, massive to lightly brecciated, strongly dolomitized limestone (only slight fizz when scratched) with crosscutting veinlets Ca and altered bands/zones of semi-massive to massive Po with soft, slightly flaky, slightly greenish mineral, fibrous and almost acicular. Minor Py
						VN	40										s					200.20-200.36 m: Vein at 40 deg, 50% soft light green fibrous mineral described above, some chlorite alteration, 10% Po, calcite. Seems perpendicular to the very weak foliation in rock.
																	85					203.52- 204.20 m: Semi-massive to massive pyrrhotite with strong dark green chlorite alteration. Also light green feathery soft mineral. The Po has feathery texture as well. Trace pinkish bronze mineral described earlier (possible bornite?) also trace bismuthinite.
						VN	40								w		20					205.26-205.40 m and 208.65-208.79 m: Band of Po, fibrous light green mineral, pyrite. Second band is 40% Po
212.30	334.83	122.53	LST	ALT		FO	55		m						w							Dark grey, to medium grey, dolomitized limestone (slight fizz), generally foliated, and occasionally heavily brecciated. 5-10% Ca +/- Qz flood. Weak pyrite throughout, occurring as (occasionally foliaform) disseminations and occasional coarser bands. Po is absent. Ca veinlets crosscut at 25 and 60 deg to CA. Irregular and usually perpendicular to the foliation. The foliation is usually defined by thin black irregular, stylolite looking stringers. Thin stubby needles occur on fractures, and a prismatic to botryoidal mystery mineral observed elsewhere is dark greasy black, overall 1%.
						VN	25															
						VN	60															
						FO	60															218.00-222.00 m: Fine grained, light grey, and quite well foliated at 60 deg.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						225.60-225.85 m: Several clusters of thin black stubby needle crystals, randomly oriented, 0.5 x 2 mm.
																						230-242.80 m: Strongly brecciated, with slight alignment along foliation.
															t							235.20-235.50 m: Yellowish and reddish alteration occurs on fractures.
																						239 m: Breccia.
						FO	45															249 m: Foliation occurs at 45 deg to CA.
						FO	35															254 m: Foliation occurs at 35 deg to CA.
						FO	50															264 m: Foliation occurs at 50 deg to CA.
																						254.49-260.35 m: More broken up with yellowish alteration on fractures.
						FO	40															271.50-276.40 m: Fairly fine grained, non-brecciated and moderately foliated at 40 deg to CA.
															t							276.40-277.20 m: Mainly quartz flood, heavily brecciated limestone. Some yellow/red alteration textured areas. Also some have trace coarse pyrite crystals. Lots of quartz fragments.
																						278-282 m: Brecciated limestone with slightly brownish yellow/red oxidation on fractures.
						FO	30															282 m: Foliation from 25-40 deg to CA.
															t			Sp	t			285.75-286.05 m: Calcite flood with quartz and some coarse pyrite and small grains in structure of red sphalerite.
																						296 m : Trace sphalerite on thin Ca veinlets.
						FO	50								t			Sp	t			296-306 m: Fairly strongly brecciated with crosscutting Ca +/- Sp veinlets. Some crinoids and corals fragments. Trace disseminated pyrite occurs throughout. Foliation runs at 50 deg to CA.
						FO	30															312- 314 m: Generally more foliated and banded, and less brecciated. Foliation occurs at 30 deg to CA.
																						314-318 m: Coral mound fragments occur within the limestone. Foliation occurs at 30 deg to CA.
						FO	35															328 m: Foliation occurs at 35 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						328-331.13 m: Start seeing more coarse grained limestone, somewhat increased pyrite content, mainly in thin foliated/bands.
						FO	40								ms							331.13-331.70 m: Possible volcaniclastic layers? Increased pyrite and medium brown foliations. Trace brighter green fuchsite crystals.
334.83	338.95	4.12	LST	ALT									MBL	s	w		w					Strongly altered, marbleized (recrystallized coarse grained and fizzy) limestone. Very fluid affected, light grey with thin irregular strong green chlorite, sometimes associated with fine grained trace Po and Py present in weak concentrations as quite coarse disseminations.
338.95	341.79	2.84	Ca	MX	VN										s		s	Sp	w	Bi	t	Mineralized carbonate (calcite?) some banding occurs at 30 deg to CA separating zones of mineralization. Mineralization varies from weak blebs of Py/Po to strongly disseminated and banded Po, Py with rarer Sp, Bismuthanite. Chlorite alteration is still quite prevalent (patchy).
															t		t	Sp	t			338.95-339.63 m: Mostly brecciated Ca (and yellow Ca) with minor sphalerite (few blebs, stringer) and disseminated Po/Py.
																		Sp	f	Bi	w	339.63-340.55 m: Coarse crystalline white Ca flood with thick bands and large clusters of light to dark red sphalerite and soft flaky, steel grey bismthanite (first 40 cm 10% of each, overall less). Also dark blackish sphalerite?? Strong concentrations of dark green chlorite occurring in less well mineralized regions. Occasional bands of Py.
															s		ms	Sp	t			340.55-341.79 m: Generally dark green and altered, with much less Ca (<15%) and quite well mineralized with heavy disseminations to bands of Py and lesser Po. 20 cm of mildly altered Limestone occurs at 341.20-341.48 m. Sphalerite occurs as blebs and stringers.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
341.79	343.92	2.13	LST			FO	40								t		t					Very slightly altered limestone, Ca flooded (10%) and brecciated occasionally. Trace disseminated Py and Po.
343.92	347.00	3.08	LST	MBL																		Back to heavily marbleized, coarse-grained limestone, strongly fluid altered (recrystallized?) with lots of dark green chlorite stringers and fine Py and Po.
347.00	353.22	6.22	LST		BX	FO	30								t		t					Ca flooded (15%) brecciated limestone with minor marble alteration and small zones of pyrite and pyrrhotite.
																						350.41-353.22 m: Variably brecciated limestone with much less Ca flood (1-3%) and increased Py, especially in several intervals.
353.22	356.17	2.95	SHL												s							Dark grey to black, fine-grained, non calcareous shale, with increased pyrite occurring as fine disseminations and in Ca stringers to. Foliation is weak and quite variable from 20 deg at 352 m, to 0 deg at 354 m, to 35 deg at 357 m. Pyrite is also foliaform, extremely low angle but variable. Minor breccia occurs over small intervals. Some limestone clasts occur within.
356.17	361.94	5.77	LST												f							Black to dark grey, brecciated limestone with only minor Ca flood and a weak foliation. Breccia occurs throughout. Pyrite is concentrated within the matrix, while clasts are generally more pure limestone.
			DOL			BN	35															357.10-357.18 m: Coarse, recrystallized dolomite vein 35 deg to CA. It appears to follow the foliation, but it is difficult to tell. Pyrite is concentrated along the edges.
																						360.25-360.45 m: more irregular dolomite with pyrite on margins of the dolomite vein.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
361.94	363.83	1.89	DOL			FO	40								f							Medium to coarse grained dolomite with, heavily disseminated pyrite occurring for 5-10 cm on the margins. Else ware the pyrite is fairly disseminated. Weak foliation occurs at 40 deg to CA.
363.83	376.43	12.60	LST		BX	FO	30								w							Medium to dark grey brecciated limestone with clasts of dark grey, fine-grained calcareous limestone. Defiantly matrix supported. Weak pyrite is disseminated throughout. Weak foliation occurs at 30deg. Overall <3-5% Qz/Ca flood.
																						376.44 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-54

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.40	1.52	0.12	0.12	100	0.00	0	MS	SW	
1.52	2.74	1.22	0.36	30	0.00	0	MS	SW	
2.74	4.57	1.83	0.13	7	0.00	0	MS	SW	
4.57	7.01	2.44	0.51	21	0.00	0	MS	SW	
7.01	7.32	0.31	0.29	94	0.14	45	MS	SW	
7.32	9.75	2.43	1.03	42	0.27	11	MS	SW	
9.75	10.67	0.92	0.85	92	0.60	65	MS	SW	
10.67	12.19	1.52	1.51	99	1.33	88	MS	SW	
12.19	13.72	1.53	1.47	96	1.21	79	MS	SW	
13.72	15.24	1.52	1.52	100	1.35	89	MS	SW	
15.24	16.76	1.52	1.36	89	1.22	80	MS	SW	
16.76	18.29	1.53	1.53	100	1.48	97	MS	SW	
18.29	19.81	1.52	1.38	91	0.70	46	MS	SW	
19.81	21.34	1.53	1.53	100	1.32	86	MS	SW	
21.34	23.16	1.82	1.32	73	1.11	61	MS	SW	
23.16	24.38	1.22	1.14	93	0.39	32	MS	SW	
24.38	27.43	3.05	2.99	98	2.70	89	MS	SW	
27.43	30.48	3.05	3.05	100	2.58	85	MS	SW	
30.48	33.53	3.05	3.05	100	2.25	74	MS	SW	
33.53	36.58	3.05	3.05	100	2.75	90	MS	SW	
36.58	39.62	3.04	3.03	100	2.03	67	MS	SW	
39.62	42.67	3.05	3.05	100	3.05	100	MS	SW	
42.67	45.11	2.44	2.31	95	1.62	66	MS	SW	
45.11	47.24	2.13	2.03	95	0.88	41	MS	SW	
47.24	50.29	3.05	2.96	97	2.65	87	MS	SW	
50.29	53.34	3.05	3.05	100	2.05	67	MS	SW	
53.34	56.39	3.05	3.05	100	2.73	90	MS	SW	
56.39	59.44	3.05	2.92	96	2.55	84	MS	SW	
59.44	62.49	3.05	3.05	100	2.69	88	MS	SW	
62.49	63.70	1.21	1.21	100	0.99	82	MS	FR	
63.70	66.75	3.05	3.05	100	3.05	100	MS	FR	
66.75	68.58	1.83	1.81	99	1.52	83	MS	FR	
68.58	71.02	2.44	2.15	88	2.05	84	MS	FR	
71.02	74.07	3.05	2.95	97	2.32	76	MS	FR	
74.07	76.81	2.74	2.74	100	2.74	100	MS	FR	
76.81	79.86	3.05	3.05	100	2.93	96	MS	FR	
79.86	82.91	3.05	3.05	100	2.86	94	MS	FR	
82.91	85.04	2.13	2.08	98	0.94	44	MS	FR	
85.04	88.09	3.05	3.04	100	2.49	82	MS	FR	
88.09	91.14	3.05	2.96	97	2.90	95	MS	FR	
91.14	94.18	3.04	3.04	100	2.76	91	MS	FR	
94.18	97.23	3.05	3.05	100	3.05	100	MS	FR	
97.23	99.06	1.83	1.75	96	1.75	96	MS	FR	
99.06	102.11	3.05	3.05	100	2.70	89	MS	FR	
102.11	105.16	3.05	3.05	100	2.85	93	MS	FR	
105.16	108.20	3.04	3.04	100	2.68	88	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
108.20	111.25	3.05	3.05	100	2.98	98	MS	FR	
111.25	114.30	3.05	3.05	100	2.63	86	MS	FR	
114.30	117.35	3.05	3.05	100	2.78	91	MS	FR	
117.35	120.40	3.05	3.05	100	2.46	81	MS	FR	
120.40	123.44	3.04	3.04	100	2.83	93	MS	FR	
123.44	126.19	2.75	2.75	100	2.27	83	MS	FR	
126.19	128.93	2.74	2.74	100	1.91	70	MS	FR	
128.93	132.59	3.66	3.66	100	1.23	34	MS	FR	
132.59	135.64	3.05	3.05	100	2.49	82	MS	FR	
135.64	138.68	3.04	3.04	100	2.25	74	MS	FR	
138.68	141.73	3.05	3.05	100	3.05	100	MS	FR	
141.73	144.78	3.05	3.05	100	2.46	81	MS	FR	
144.78	147.83	3.05	3.05	100	3.05	100	MS	FR	
147.83	150.88	3.05	3.05	100	2.88	94	MS	FR	
150.88	153.92	3.04	3.03	100	2.69	88	MS	FR	
153.92	156.97	3.05	3.05	100	2.75	90	MS	FR	
156.97	160.02	3.05	3.05	100	1.64	54	MS	FR	
160.02	160.63	0.61	0.61	100	0.00	0	MS	FR	
160.63	163.07	2.44	2.44	100	1.95	80	MS	FR	
163.07	166.12	3.05	3.00	98	2.24	73	MS	FR	
166.12	169.16	3.04	3.04	100	2.59	85	MS	FR	
169.16	171.60	2.44	2.40	98	1.60	66	MS	FR	
171.60	173.74	2.14	2.14	100	1.89	88	MS	FR	
173.74	175.87	2.13	2.11	99	1.38	65	MS	FR	
175.87	178.61	2.74	2.74	100	2.61	95	MS	FR	
178.61	181.36	2.75	2.64	96	2.64	96	MS	FR	
181.36	184.40	3.04	3.04	100	3.04	100	MS	FR	
184.40	187.45	3.05	3.04	100	3.04	100	MS	FR	
187.45	190.50	3.05	3.05	100	3.05	100	MS	FR	
190.50	193.55	3.05	3.05	100	3.05	100	MS	FR	
193.55	196.60	3.05	3.05	100	3.05	100	MS	FR	
196.60	199.64	3.04	2.98	98	2.98	98	MS	FR	
199.64	202.69	3.05	3.05	100	3.05	100	MS	FR	
202.69	205.74	3.05	3.05	100	2.82	92	MS	FR	
205.74	208.79	3.05	2.99	98	2.91	95	MS	FR	
208.79	211.84	3.05	3.05	100	3.05	100	MS	FR	
211.84	214.88	3.04	3.04	100	3.04	100	MS	FR	
214.88	217.93	3.05	3.05	100	3.05	100	MS	FR	
217.93	220.98	3.05	3.05	100	2.82	92	MS	FR	
220.98	224.03	3.05	3.05	100	2.53	83	MS	FR	
224.03	227.08	3.05	3.05	100	2.70	89	MS	FR	
227.08	230.12	3.04	3.03	100	2.79	92	MS	FR	
230.12	233.17	3.05	3.05	100	3.03	99	MS	FR	
233.17	236.22	3.05	3.05	100	2.73	90	MS	FR	
236.22	239.27	3.05	3.05	100	2.68	88	MS	FR	
239.27	242.32	3.05	3.03	99	3.03	99	MS	FR	
242.32	245.36	3.04	3.04	100	2.90	95	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
245.36	248.11	2.75	2.75	100	2.49	91	MS	FR	
248.11	251.15	3.04	2.85	94	2.30	76	MS	SW	
251.15	254.20	3.05	3.05	100	1.65	54	MS	SW	
254.20	257.25	3.05	2.93	96	0.45	15	MS	SW	
257.25	259.38	2.13	1.95	92	1.24	58	MS	SW	
259.38	260.29	0.91	0.91	100	0.12	13	MS	FR	
260.29	262.12	1.83	1.81	99	1.41	77	MS	FR	
262.12	264.87	2.75	2.61	95	2.38	87	MS	FR	
264.87	267.91	3.04	2.76	91	2.48	82	MS	FR	
267.91	270.96	3.05	3.04	100	2.69	88	MS	FR	
270.96	274.01	3.05	3.01	99	2.72	89	MS	FR	
274.01	277.06	3.05	3.05	100	2.53	83	MS	MW	
277.06	278.25	1.19	0.73	61	0.00	0	MS	SW	
278.25	279.65	1.40	1.40	100	1.13	81	MS	SW	
279.65	281.02	1.37	1.37	100	0.42	31	MS	SW	
281.02	283.31	2.29	2.35	103	2.00	87	MS	SW	
283.31	285.59	2.28	1.93	85	1.66	73	MS	FR	
285.59	288.64	3.05	3.02	99	1.88	62	MS	FR	
288.64	291.69	3.05	3.05	100	2.46	81	MS	FR	
291.69	294.74	3.05	3.05	100	2.90	95	MS	FR	
294.74	297.78	3.04	3.00	99	2.80	92	MS	FR	
297.78	300.23	2.45	2.34	96	2.15	88	MS	FR	
300.23	303.28	3.05	3.06	100	2.85	93	MS	FR	
303.28	306.32	3.04	3.04	100	2.78	91	MS	FR	
306.32	309.37	3.05	3.05	100	2.84	93	MS	FR	
309.37	312.42	3.05	3.05	100	2.93	96	MS	FR	
312.42	315.47	3.05	3.05	100	2.54	83	MS	FR	
315.47	318.52	3.05	2.75	90	2.69	88	MS	FR	
318.52	321.56	3.04	2.87	94	2.70	89	MS	FR	
321.56	324.61	3.05	3.05	100	2.89	95	MS	FR	
324.61	327.66	3.05	3.05	100	2.81	92	MS	FR	
327.66	330.70	3.04	3.05	100	2.85	94	MS	FR	
330.70	333.76	3.06	3.06	100	2.85	93	MS	FR	
333.76	336.80	3.04	3.04	100	2.83	93	MS	FR	
336.80	339.85	3.05	3.05	100	3.05	100	MS	FR	
339.85	342.90	3.05	3.05	100	2.94	96	MS	FR	
342.90	345.95	3.05	3.03	99	3.01	99	MS	FR	
345.95	349.00	3.05	3.03	99	2.98	98	MS	FR	
349.00	352.04	3.04	3.03	100	2.96	97	MS	FR	
352.04	355.09	3.05	3.01	99	2.77	91	MS	FR	
355.09	358.14	3.05	3.02	99	2.85	93	MS	FR	
358.14	361.19	3.05	3.05	100	2.96	97	MS	FR	
361.19	364.24	3.05	2.83	93	2.62	86	MS	FR	
364.24	366.98	2.74	0.25	9	0.25	9	MS	FR	
366.98	367.59	0.61	0.61	100	0.53	87	MS	FR	
367.59	370.33	2.74	2.71	99	2.70	99	MS	FR	
370.33	373.38	3.05	3.05	100	3.00	98	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
373.38	376.43	3.05	2.98	98	2.88	94	MS	FR	
	376.43	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-54

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
21.34	24.45	3.11	2.47	79	H885763	4.0	45	<0.01	0.08	11	0.40	
24.45	26.33	1.88	1.88	100	H885764	3.5	45	<0.01	0.07	55	1.85	
26.33	28.15	1.82	1.75	96	H885765	3.0	45	0.01	0.21	99	13.20	
28.15	29.39	1.24	1.24	100	H885766	2.5	45	<0.01	0.10	3	0.90	
29.39	31.50	2.11	2.11	100	H885767	4.0	45	<0.01	0.13	57	1.08	
31.50	34.20	2.70	2.60	96	H885769	4.5	46	<0.01	0.03	22	0.52	
34.20	36.40	2.20	2.20	100	H885770	4.5	46	<0.01	0.19	154	2.97	
36.40	38.62	2.22	2.22	100	H885771	4.0	46	<0.01	0.14	6	0.92	
38.62	41.81	3.19	3.19	100	H885772	6.0	46	<0.01	0.08	132	3.41	
41.81	45.11	3.30	3.07	93	H885773	6.5	46	0.01	0.15	68	9.81	
50.29	52.60	2.31	2.31	100	H885774	4.0	46	0.13	0.13	263	7.29	
52.60	53.84	1.24	1.24	100	H885775	3.0	46	3.92	0.14	3070	58.00	
53.84	56.39	2.55	2.55	100	H885776	4.5	46	0.01	0.05	34	4.32	
82.91	85.96	3.05	2.91	95	H885787	5.5	46	0.03	0.10	65	2.80	
85.96	89.13	3.17	3.17	100	H885788	6.0	46	0.02	0.18	332	156.50	
89.13	92.30	3.17	3.05	96	H885789	6.0	46	0.62	0.38	1670	101.00	
92.30	95.48	3.18	3.18	100	H885790	6.0	46	0.08	0.10	299	18.95	
95.48	97.71	2.23	2.23	100	H885791	5.5	46	0.18	0.33	1340	411.00	
97.71	99.95	2.24	2.11	94	H885793	4.5	46	0.10	0.18	358	244.00	
99.95	101.14	1.19	1.19	100	H885794	3.5	46	0.17	0.49	2070	870.00	
101.14	101.87	0.73	0.72	99	H885795	2.0	46	0.28	0.39	3050	522.00	
101.87	105.16	3.29	3.28	100	H885796	6.5	46	0.02	0.15	144	79.80	
105.16	105.61	0.45	0.45	100	H885797	1.5	46	0.04	0.59	617	1165.00	
105.61	108.20	2.59	2.58	100	H885821	5.0	47	0.02	0.18	63	1160.00	
108.20	111.25	3.05	3.05	100	H885822	6.0	47	0.02	0.12	178	28.50	
111.25	114.30	3.05	2.02	66	H885823	6.0	47	0.05	0.07	220	14.00	
114.30	117.35	3.05	3.03	99	H885824	6.0	47	0.11	0.41	521	195.50	
117.35	120.40	3.05	3.01	99	H885826	5.5	47	0.02	0.09	160	6.92	
120.40	121.83	1.43	1.37	96	H885827	2.5	47	0.02	0.03	12	1.30	
121.83	125.00	3.17	3.17	100	H885828	6.0	47	0.03	0.08	128	4.59	
125.00	128.12	3.12	3.05	98	H885829	5.5	47	0.02	0.04	16	1.24	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
128.12	128.93	0.81	0.54	67	H885830	1.0	47	0.10	0.50	350	31.90	
128.93	132.59	3.66	1.79	49	H885832	3.0	47	0.03	0.28	53	4.42	
132.59	135.64	3.05	2.83	93	H885834	5.5	47	0.01	0.27	14	1.56	
135.64	138.68	3.04	2.95	97	H885835	5.5	47	0.01	1.16	36	4.84	
138.68	141.73	3.05	3.05	100	H885836	6.0	47	0.02	0.39	41	9.96	
141.73	143.55	1.82	1.78	98	H885837	4.0	47	0.05	0.34	78	11.05	
143.55	145.96	2.41	2.39	99	H885838	5.5	47	0.60	13.10	756	178.50	
145.96	147.18	1.22	1.22	100	H885839	3.0	47	0.03	0.50	105	29.60	
147.18	150.03	2.85	2.76	97	H885840	8.5	47	0.50	1.42	1170	150.00	
150.03	153.45	3.42	3.42	100	H885841	8.0	48	0.28	11.85	742	90.70	
153.45	156.97	3.52	3.11	88	H885843	6.5	48	0.01	1.86	56	8.01	
156.97	160.02	3.05	2.89	95	H885844	5.5	48	<0.01	1.53	99	7.42	
160.02	163.07	3.05	3.02	99	H885845	5.0	48	0.02	24.40	32	243.00	
163.07	166.12	3.05	2.97	97	H885846	5.0	48	<0.01	0.10	27	4.88	
166.12	169.16	3.04	3.04	100	H885847	6.0	48	<0.01	0.05	18	0.75	
169.16	171.60	2.44	2.27	93	H885849	4.5	48	<0.01	0.19	15	0.79	
171.60	173.74	2.14	2.14	100	H885850	4.0	48	0.01	0.85	151	13.70	
173.74	176.70	2.96	2.96	100	H885851	5.0	48	<0.01	0.25	20	1.43	
176.70	178.78	2.08	2.08	100	H885853	5.0	48	0.02	3.65	14	1010.00	
178.78	179.56	0.78	0.82	105	H885854	2.0	48	0.01	0.41	38	57.30	
179.56	182.04	2.48	2.34	94	H885855	4.5	48	<0.01	0.12	6	1.45	
182.04	183.43	1.39	1.39	100	H885856	3.0	48	0.02	0.95	<0.2	7890.00	
183.43	185.32	1.89	1.84	97	H885858	4.0	48	0.07	0.32	4	759.00	
185.32	187.45	2.13	2.11	99	H885859	4.0	48	<0.01	0.15	8	21.60	
187.45	189.45	2.00	2.00	100	H885860	4.0	48	0.02	0.27	14	11.45	
189.45	191.45	2.00	2.00	100	H885861	4.0	48	0.01	0.30	10	60.60	
191.45	193.55	2.10	2.10	100	H885862	5.0	48	<0.01	0.18	11	2.39	
193.55	195.60	2.05	2.05	100	H885863	4.0	48	<0.01	0.12	2	2.58	
195.60	197.73	2.13	2.13	100	H885865	4.5	48	0.01	0.19	146	9.25	
197.73	200.63	2.90	2.86	99	H885866	6.0	48	<0.01	0.11	22	7.99	
200.63	203.52	2.89	2.88	100	H885867	6.0	48	<0.01	0.09	7	9.59	
203.52	204.20	0.68	0.68	100	H885868	2.0	48	0.01	1.33	7	1930.00	
204.20	207.20	3.00	2.95	98	H885869	6.0	48	<0.01	0.12	<5	8.02	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
207.20	210.20	3.00	3.00	100	H885870	6.0	48	<0.01	0.14	5	65.00	
210.20	212.30	2.10	2.10	100	H885871	4.0	48	<0.01	0.04	5	5.10	
212.30	215.30	3.00	3.00	100	H885872	6.0	48	<0.01	0.07	15	0.80	
215.30	218.30	3.00	2.88	96	H885873	5.5	48	<0.01	0.04	37	1.93	
274.01	276.40	2.39	1.33	56	H885874	5.0	48	0.02	0.25	17	5.04	
276.40	277.20	0.80	0.80	100	H885875	2.0	48	0.02	0.17	55	0.93	
277.20	278.28	1.08	0.70	65	H885876	1.5	48	<0.01	0.06	13	0.40	
278.28	281.02	2.74	2.75	100	H885877	4.5	49	<0.01	0.08	24	1.03	
281.02	283.31	2.29	2.29	100	H885878	4.0	49	0.01	0.07	11	0.82	
283.31	285.59	2.28	2.18	96	H885879	4.5	49	<0.01	0.07	29	1.45	
285.59	288.64	3.05	3.01	99	H885880	5.5	49	<0.01	0.13	25	0.74	
331.83	334.83	3.00	3.00	100	H885914	6.0	50	0.04	0.17	76	7.04	
334.83	336.80	1.97	1.95	99	H885915	4.0	50	0.01	0.12	46	9.77	
336.80	338.95	2.15	2.15	100	H885916	4.0	50	0.01	0.07	18	0.65	
338.95	339.63	0.68	0.68	100	H885918	2.0	50	0.01	4.13	90	12.65	
339.63	340.55	0.92	0.92	100	H885919	2.5	50	0.09	142.00	1155	415.00	
340.55	341.79	1.24	1.23	99	H885920	3.0	50	0.03	4.68	1550	33.50	
341.79	343.82	2.03	2.03	100	H885921	4.0	50	0.02	0.28	17	5.34	
343.82	346.95	3.13	3.05	97	H885922	6.0	50	<0.01	0.09	9	3.23	
346.95	350.41	3.46	3.36	97	H885923	6.5	50	<0.01	0.14	7	3.30	
350.41	353.22	2.81	2.82	100	H885924	5.5	50	0.05	0.26	31	11.00	
353.22	356.17	2.95	2.80	95	H885925	6.0	50	0.34	0.70	261	59.60	
356.17	359.00	2.83	2.83	100	H885927	6.0	50	0.27	0.36	224	34.70	
359.00	361.94	2.94	2.94	100	H885928	6.5	50	0.17	0.23	173	23.80	
361.94	363.83	1.89	1.66	88	H885930	3.0	50	0.24	0.12	329	57.90	
363.83	364.24	0.41	0.41	100	H885931	1.0	50	0.10	0.26	107	10.90	void from 364.24-366.72 m
366.72	367.59	0.87	0.87	100	H885932	2.0	50	0.10	0.13	27	7.59	
-	-	-			H885768	0.3	45	1.30	1.87	25900	372.00	Standard R-2
53.84	56.39	2.55	2.55	100	H885777	2.5	46	0.01	0.08	24	2.96	Duplicate
-	-	-			H885792	4.0	46	<0.01	0.07	<5	0.92	Blank
-	-	-			H885798	0.3	46	1.55	1.75	27000	345.00	Standard R-2
-	-	-			H885825	0.3	47	0.56	0.82	5730	101.00	Standard R-1

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H885831	4.0	47	0.01	0.01	12	0.25	Blank
128.93	132.59	3.66	1.79	49	H885833	2.0	47	0.02	0.29	25	5.96	Duplicate
-	-	-			H885842	4.0	48	<0.01	0.02	9	0.38	Blank
-	-	-			H885848	0.3	48	5.36	0.26	49300	488.00	Standard R-3
173.74	176.70	2.96	2.96	100	H885852	3.0	48	<0.01	0.28	18	1.39	Duplicate
-	-	-			H885857	4.0	48	<0.01	0.01	16	5.77	Blank
-	-	-			H885864	0.3	48	0.51	0.90	6400	112.50	Standard R-1
-	-	-			H885881	0.3	49	0.42	0.85	5820	109.50	Standard-1
-	-	-			H885917	4.0	50	0.01	0.03	14	0.13	Blank
-	-	-			H885926	0.3	50	1.42	1.65	26700	336.00	Standard-2
359.00	361.94	2.94	2.94	100	H885929	3.5	50	0.20	0.25	188	27.10	Duplicate

BOX DENSITY LOG

HOLE: Rau-09-54

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
11	62.49	68.16	4.20	LST		5.64	45.0	2.61	
17	95.97	101.64	4.20	QZ		5.76	57.0	3.24	

DENSITY LOG

HOLE: Rau-09-54

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
81.30	LST			14.6	4.2	579.3	375.1	2.86	2.84
104.35	PY	QZ	65% Py 3% Qz	14.8	4.2	839.7	738.0	4.10	8.26
105.35	Po		Nearly massive Po	14.8	4.2	945.4	633.2	4.61	3.03
132.14	LST			15.2	4.2	576.8	374.4	2.74	2.85
147.54	LST	MX	Massive Py	14.4	4.2	958.5	745.0	4.80	4.49

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-54

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
1.00	LST			
2.00	LST		0.02	
3.00	LST		0.04	
4.00	LST		0.02	
5.00	LST		0.02	
6.00	LST		0.02	
7.00	LST		0.02	
8.00	LST		0.08	
9.00	LST		0.47	
10.00	LST		0.02	
11.00	LST		0.04	
12.00	LST		0.00	
13.00	LST		0.02	
14.00	LST		0.02	
15.00	LST		0.04	
16.00	LST		0.06	
17.00	LST		0.24	
18.00	LST		0.08	
19.00	LST		0.26	
20.00	LST		0.04	
21.00	LST		0.20	
22.00	LST		0.20	
23.00	LST		0.04	
24.00	LST		0.36	
25.00	VOL	ALT	0.12	
26.00	VOL	ALT	0.12	
27.00	VOL	ALT	1.76	
28.00	VOL	ALT	7.58	
29.00	VOL	ALT	3.81	
30.00	VOL	ALT	7.09	
31.00	VOL	ALT	0.71	
32.00	VOL	ALT	0.88	
33.00	VOL	ALT	0.45	
34.00	VOL	ALT	2.76	
35.00	VOL	ALT	3.77	
36.00	VOL	ALT	8.26	
37.00	VOL	ALT	5.78	
38.00	VOL	ALT	5.82	
39.00	VOL	ALT	2.72	
40.00	VOL	ALT	0.71	
41.00	VOL	ALT	0.02	
42.00	LST		0.28	
43.00	LST		0.36	
44.00	LST		0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST		0.10	
46.00	LST		0.06	
47.00	LST		0.18	
48.00	LST		1.55	
49.00	LST		0.06	
50.00	LST		0.04	
51.00	LST		0.06	
52.00	LST		0.02	
53.00	LST		0.22	
54.00	LST		0.06	
55.00	LST		0.06	
56.00	LST		0.59	
57.00	LST		0.14	
58.00	LST		0.10	
59.00	LST		0.04	
60.00	LST		0.04	
61.00	LST		0.02	
62.00	LST		0.04	
63.00	LST		0.08	
64.00	LST		0.02	
65.00	LST		0.04	
66.00	LST		0.12	
67.00	LST		0.22	
68.00	LST		0.04	
69.00	LST		0.06	
70.00	LST		0.02	
71.00	LST		0.51	
72.00	LST		0.14	
73.00	LST		0.04	
74.00	LST		0.04	
75.00	LST		0.12	
76.00	LST		0.08	
77.00	LST		0.02	
78.00	LST		0.02	
79.00	LST		0.04	
80.00	LST		0.02	
81.00	LST		0.04	
82.00	LST		0.06	
83.00	LST		0.04	
84.00	LST		0.06	
85.00	LST		0.04	
86.00	LST	MX	0.84	
87.00	LST	MX	0.06	
88.00	LST	MX	0.10	
89.00	LST	MX	0.04	
90.00	LST	MX	0.12	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
91.00	LST	MX	0.06	
92.00	LST	MX	0.14	
93.00	LST	MX	0.04	
94.00	LST	MX	0.26	
95.00	LST	MX	0.36	
96.00	QZ		3.81	
97.00	QZ		9.08	
98.00	QZ		3.99	
99.00	QZ		4.46	
100.00	QZ		38.20	
101.00	QZ		1.55	
102.00	LST	ALT	0.16	
103.00	LST	ALT	1.72	
104.00	LST	ALT	0.00	
105.00	LST	ALT	0.55	
106.00	LST	ALT	27.50	
107.00	LST	ALT	0.06	
108.00	LST	ALT	0.67	
109.00	LST	ALT	1.98	
110.00	LST	ALT	0.77	
111.00	LST	ALT	1.82	
112.00	LST	ALT	3.03	
113.00	LST	ALT	7.97	
114.00	LST	ALT	0.04	
115.00	LST	ALT	6.94	
116.00	LST	ALT	0.51	
117.00	LST	ALT	16.80	
118.00	LST	ALT	0.02	
119.00	LST	ALT	0.34	
120.00	LST	ALT	82.90	
121.00	LST	ALT	0.02	
122.00	LST	ALT	0.10	
123.00	LST	ALT	0.06	
124.00	LST	ALT	0.04	
125.00	LST	ALT	0.06	
126.00	LST	ALT	0.16	
127.00	LST	ALT	0.22	
128.00	LST	ALT	0.06	
129.00	LST		0.08	
130.00	LST		0.10	
131.00	LST		0.06	
132.00	LST		0.08	
133.00	LST		0.04	
134.00	LST		0.04	
135.00	LST		0.04	
136.00	LST		0.08	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
137.00	LST		0.08	
138.00	LST		0.20	
139.00	LST		0.14	
140.00	LST		0.14	
141.00	LST		0.12	
142.00	LST		0.08	
143.00	LST		0.51	
144.00	LST	MX	0.18	
145.00	LST	MX	0.36	
146.00	LST	MX	1.47	
147.00	LST	MX	4.85	
148.00	LST	MX	0.14	
149.00	LST	MX	1.00	
150.00	LST	MX	0.06	
151.00	LST	MX	0.12	
152.00	LST	MX	0.73	
153.00	LST	MX	0.32	
154.00	LST	ALT	0.22	
155.00	LST	ALT	0.41	
156.00	LST	ALT	0.32	
157.00	LST	ALT	0.84	
158.00	LST	ALT	0.26	
159.00	LST	ALT	0.04	
160.00	LST	ALT	0.49	
161.00	LST	ALT	0.18	
162.00	LST	ALT	0.47	
163.00	LST	ALT	0.08	
164.00	LST	ALT	0.04	
165.00	LST	ALT	0.04	
166.00	LST	ALT	1.70	
167.00	LST	ALT	0.02	
168.00	LST	ALT	0.10	
169.00	LST	ALT	0.04	
170.00	LST	ALT	0.06	
171.00	LST	ALT	0.02	
172.00	LST	ALT	0.22	
173.00	LST	ALT	0.38	
174.00	LST	ALT	0.14	
175.00	LST	ALT	0.20	
176.00	LST	ALT	0.36	
177.00	LST	ALT	3.34	
178.00	VOL	MX	27.20	
179.00	VOL	MX	18.40	
180.00	VOL	MX	9.18	
181.00	VOL	MX	5.69	
182.00	VOL	MX	7.76	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
183.00	VOL	MX	22.30	
184.00	VOL	MX	21.60	
185.00	VOL	MX	31.70	
186.00	VOL	MX	7.48	
187.00	VOL	MX	3.32	
189.00	VOL	MX	13.30	
190.00	VOL	MX	8.97	
191.00	VOL	MX	4.98	
192.00	VOL	MX	5.69	
193.00	VOL	MX	3.09	
194.00	VOL	MX	3.83	
195.00	VOL	MX	2.27	
196.00	VOL	MX	12.40	
197.00	VOL	MX	2.46	
198.00	LST	ALT	1.61	
199.00	LST	ALT	0.96	
200.00	LST	ALT	7.21	
201.00	LST	ALT	3.85	
202.00	LST	ALT	0.86	
203.00	LST	ALT	14.70	
205.00	LST	ALT	0.18	
206.00	LST	ALT	5.33	
207.00	LST	ALT	2.35	
208.00	LST	ALT	1.35	
209.00	LST	ALT	25.70	
210.00	LST	ALT	5.10	
211.00	LST	ALT	0.12	
212.00	LST	ALT	0.04	
213.00	LST	ALT	1.86	
214.00	LST	ALT	0.18	
215.00	LST	ALT	2.68	
216.00	LST	ALT	0.04	
217.00	LST	ALT	0.28	
218.00	LST	ALT	0.02	
219.00	LST	ALT	0.02	
220.00	LST	ALT	0.02	
221.00	LST	ALT	0.12	
222.00	LST	ALT	0.04	
223.00	LST	ALT	1.02	
224.00	LST	ALT	0.04	
225.00	LST	ALT	0.04	
226.00	LST	ALT	0.08	
227.00	LST	ALT	0.02	
228.00	LST	ALT	0.04	
229.00	LST	ALT	0.08	
230.00	LST	ALT	0.10	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
231.00	LST	ALT	0.06	
232.00	LST	ALT	0.06	
233.00	LST	ALT	0.02	
234.00	LST	ALT	0.02	
235.00	LST	ALT	0.02	
236.00	LST	ALT	0.04	
237.00	LST	ALT	0.02	
238.00	LST	ALT	0.08	
239.00	LST	ALT	0.22	
240.00	LST	ALT	0.02	
241.00	LST	ALT	0.02	
242.00	LST	ALT	0.02	
243.00	LST	ALT	0.02	
244.00	LST	ALT	0.06	
245.00	LST	ALT	0.02	
246.00	LST	ALT	0.18	
247.00	LST	ALT	0.04	
248.00	LST	ALT	0.02	
249.00	LST	ALT	0.02	
250.00	LST	ALT	0.02	
251.00	LST	ALT	0.16	
252.00	LST	ALT	0.00	
253.00	LST	ALT	0.12	
254.00	LST	ALT	0.02	
255.00	LST	ALT	0.08	
256.00	LST	ALT	0.00	
257.00	LST	ALT	0.00	
258.00	LST	ALT	0.02	
259.00	LST	ALT	0.03	
260.00	LST	ALT	0.02	
261.00	LST	ALT	0.16	
262.00	LST	ALT	0.02	
263.00	LST	ALT	0.04	
264.00	LST	ALT	0.02	
265.00	LST	ALT	0.06	
266.00	LST	ALT	0.02	
267.00	LST	ALT	0.02	
268.00	LST	ALT	0.06	
269.00	LST	ALT	0.00	
270.00	LST	ALT	0.00	
271.00	LST	ALT	0.00	
272.00	LST	ALT	0.32	
273.00	LST	ALT	0.04	
274.00	LST	ALT	0.00	
275.00	LST	ALT	0.00	
276.00	LST	ALT	0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
277.00	LST	ALT	0.06	
278.00	LST	ALT	0.00	
279.00	LST	ALT	0.00	
280.00	LST	ALT	0.00	
281.00	LST	ALT	0.02	
282.00	LST	ALT	0.04	
283.00	LST	ALT	0.00	
284.00	LST	ALT	0.00	
285.00	LST	ALT	0.02	
286.00	LST	ALT	0.18	
287.00	LST	ALT	0.02	
288.00	LST	ALT	0.02	
289.00	LST	ALT	0.00	
290.00	LST	ALT	0.02	
291.00	LST	ALT	0.02	
292.00	LST	ALT	0.08	
293.00	LST	ALT	0.00	
294.00	LST	ALT	0.00	
295.00	LST	ALT		
296.00	LST	ALT	0.06	
297.00	LST	ALT	0.02	
298.00	LST	ALT	0.03	
299.00	LST	ALT	0.07	
300.00	LST	ALT	0.04	
301.00	LST	ALT	0.03	
302.00	LST	ALT	0.05	
303.00	LST	ALT	0.10	
304.00	LST	ALT	0.05	
305.00	LST	ALT	0.02	
306.00	LST	ALT	0.02	
307.00	LST	ALT	0.07	
308.00	LST	ALT	0.03	
309.00	LST	ALT	0.07	
310.00	LST	ALT	0.03	
311.00	LST	ALT	0.13	
312.00	LST	ALT	0.31	
313.00	LST	ALT	0.07	
314.00	LST	ALT	0.02	
315.00	LST	ALT	0.09	
316.00	LST	ALT	0.02	
317.00	LST	ALT	0.04	
318.00	LST	ALT	0.11	
319.00	LST	ALT	0.01	
320.00	LST	ALT	0.12	
321.00	LST	ALT	0.02	
322.00	LST	ALT	0.82	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
323.00	LST	ALT	0.04	
324.00	LST	ALT	0.03	
325.00	LST	ALT	0.01	
326.00	LST	ALT	0.01	
327.00	LST	ALT	0.13	
328.00	LST	ALT	0.08	
329.00	LST	ALT	0.24	
330.00	LST	ALT		
331.00	LST	ALT		
332.00	LST	ALT		
333.00	LST	ALT		
334.00	LST	ALT		
335.00	LST	ALT		
336.00	LST	ALT		
337.00	LST	ALT		
338.00	LST	ALT		
339.00	CA	VN		
340.00	CA	VN		
341.00	CA	VN		
342.00	LST			
343.00	LST			
344.00	LST	ALT		
345.00	LST	ALT		
346.00	LST	ALT		
347.00	LST	ALT		
348.00	LST		2.02	
349.00	LST		1.23	
350.00	LST		1.55	
351.00	SHL		0.45	
352.00	SHL		0.12	
353.00	SHL		0.04	
354.00	SHL		0.36	
355.00	SHL		1.59	
356.00	SHL		8.07	
357.00	LST		0.10	
358.00	LST		0.38	
359.00	LST		0.14	
360.00	LST		0.14	
361.00	LST		0.08	
362.00	DOL		0.08	
363.00	DOL		0.24	
364.00	LST		0.20	
365.00	LST		0.00	
366.00	LST		0.00	
367.00	LST		0.00	
368.00	LST		0.08	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
369.00	LST		0.08	
370.00	LST		0.22	
371.00	LST		0.06	
372.00	LST		0.10	
373.00	LST		0.02	
374.00	LST		0.04	
375.00	LST		0.06	
376.00	LST		0.08	

BOX LOG

HOLE: Rau-09-54

BOX	FROM (m)	TO (m)
1	1.40	11.87
2	11.87	17.37
3	17.37	23.49
4	23.49	29.23
5	29.23	34.50
6	34.50	40.23
7	40.23	45.80
8	45.80	51.28
9	51.28	56.71
10	56.71	62.49
11	62.49	68.16
12	68.16	74.07
13	74.07	79.43
14	79.43	84.97
15	84.97	90.62
16	90.62	95.97
17	95.97	101.64
18	101.64	107.36
19	107.36	113.08
20	113.08	118.75
21	118.75	124.35
22	124.35	131.65
23	131.65	137.12
24	137.12	142.73
25	142.73	148.50
26	148.50	154.23
27	154.23	159.75
28	159.75	165.00
29	165.00	170.35
30	170.35	175.60
31	175.60	181.20
32	181.20	186.74
33	186.74	192.45
34	192.45	198.30
35	198.30	204.14

BOX	FROM (m)	TO (m)
36	204.14	209.80
37	209.80	215.40
38	215.40	221.06
39	221.06	226.70
40	226.70	232.27
41	232.27	238.00
42	238.00	243.80
43	243.80	249.39
44	249.39	254.49
45	254.49	254.70
46	254.70	264.87
47	264.87	270.59
48	270.59	276.07
49	276.07	280.01
50	280.01	285.59
51	285.59	290.71
52	290.71	295.74
53	296.36	302.90
54	302.90	307.80
55	307.80	313.64
56	313.64	319.15
57	319.15	324.82
58	324.82	330.23
59	330.23	335.82
60	335.82	341.38
61	341.38	346.95
62	346.95	352.67
63	352.67	358.14
64	358.14	364.07
65	364.07	371.97
66	371.97	376.43
	376.43	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 10+250NW

HOLE: Rau-09-55
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528320	7119228	1314	95.4

Contractor: Superior
Drill: Oxide

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 3.05 (m) out

Drilling dates: Aug 26-28, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	6.00	6.00	OVB	
6.00	14.23	8.23	LST	Dolomitized
14.23	31.39	17.16	DOL	
31.39	57.46	26.07	LST	Dolomitized
57.46	59.28	1.82	MBL	
59.28	95.40	36.12	LST	Dolomitized with weak hematite alteration.

SAMPLES	
Numbers:	H885933-H885979
	Batch 50, 51
Total:	44
Date sent:	
Certificate:	VA09100780, VA09100668

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-55

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	6.00	6.00	OVR																			Overburden, limestone, dolomite, and quartz.
6.00	14.23	8.23	LST	ALT					m													Broken up, grey to brown dolomitized and brecciated limestone with some Qz/Ca vein material and a few oxidized looking regions. Locally vuggy and orange-brown in colour.
																						10 m: (+/-10cm) Quartz flood and orange-brown alteration.
14.23	31.39	17.16	DOL												w	t	t					Generally slightly brownish-white to tan, recrystallized, coarse dolomite with several regions (~10%) of oxidized rubbly material. Brown weathering around veins and fractures. 1-3% rusty red cubic weathered pyrite? Also trace disseminated Py/Po.
																						14.03-18.87 m: Orange-brown and minor limonite stained rubbly region.
						VN	25															19 m: Thin veinlets and fractures at 25 deg to CA.
						FR	25															28 m: prominent fracture every few centimetre at 25 deg to CA.
																						28.50-28.70, 32.02-32.80m: Crumbly LT BN to orangey brown gritty layer of dirt w/angular Qz fragments.
31.39	57.46	26.07	LST	ALT	CR				w						t							Medium grey, lightly brecciated and weakly dolomitized limestone with minor brown fracture coatings. Significant (10%) coarse, angular, crystalline dolomite veins irregularly crosscutting/flooding the limestone. Occasionally pinkish tinge to the dolomite. Several crumbly to sandy gougey intervals and fragments.
																						31.39-37.00 m: Especially crackled with thin black lines forming matrix.
																						33.25-33.50 m: Orangey-brown gougey zone with large (to several cm) angular quartz fragments.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						38-39 m: Softer broken and or crumbly gouge zone.
						VN	30															40.80-41.70 m: Dolomite vein at 35 deg to CA. Blebs of Py amongst very coarse, slightly yellow-pink stained dolomite crystals.
						VN	25															52-54m: Increased dolomite veining, at 20-30 deg to CA.
																						55.87-56.00m: Dolomite vein at 35 deg to CA, with orange to brown, crumbly nature, and weathered out oxides in the centre 10 cm. (13% As on XRF).
						VN	60															After this vein, bedding starts to steepen up to 60 deg to CA. By 56.30 m, limestone starts becoming quite foliated, but still has a weak bedded appearance.
57.46	59.28	1.82	MBL			FO	65								w							Quick gradation through marbleised foliated limestone into quite pure white marble. Minor rusty staining on fractures, and weak disseminations and blebs of fine grained pyrite.
59.28	95.40	36.12	LST	ALT					f				He	w	t							Light to medium grey fossiliferous limestone, ranging from foliated to weakly brecciated. Some sections are fizzy with acid, while others are slightly dolomitized. In general the interval is much more fossiliferous before 75 m, and much more brecciated (with minor hematite alteration) after 75 m.
						FO	60															59.28-64.12 m: Moderately foliated limestone at 60 deg to CA, with trace Py stringers.
						FO	45															62.82-63.00m: Calcite vein at 50 deg to CA. Foliation is weakly deformed in this area.
						VN	30															64.12-67.87 m: Especially fossiliferous limestone, with up to 10% crinoids most commonly 1 mm, but up to 1 cm.
										w												67.87-69.49m: Lighter grey, massive region, with irregular stringer veins of sericite and sericite alteration.
																						69.49-86 m: Irregularly brecciated interval, with rare foliation visible.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
													He	w								After 72.60 m, most fractures have minor hematite alteration. Occasionally thin dolomite veins are stained a pinkish colour.
																						79-79.50 m: Slightly more fractured zone. Weak hematite alteration occurs.
																						83-84 m: 2-10 cm pinkish dolomite veins occur at 60 deg to CA.
																						87 m: Bedding occurs at 65 deg to CA. Below this the limestone becomes much more brecciated.
															w							88-89 m: Slightly brownish altered, brecciated limestone with weak disseminated pyrite.
															t							89.30-89.90 m: 5 cm thick irregular coarse-grained dolomite vein with a faint yellow tint cuts along the core axis.
																						89.90-95.40 m: Crackle brecciated limestone, very calcareous w/ 5% irregular crosscutting Ca veins. Patchy brecciated texture with some "gritty" clasts. A couple red (Hematite) coated fractures occur.
																						95.40 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-55

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
0.00	3.96	3.96	0.25	6	0.00	0	MS	HW	
3.96	5.49	1.53	0.15	10	0.00	0	MS	HW	
5.49	7.01	1.52	0.52	34	0.00	0	MS	HW	
7.01	8.53	1.52	0.78	51	0.23	15	MS	HW	
8.53	10.06	1.53	0.58	38	0.10	7	MS	HW	
10.06	11.58	1.52	0.72	47	0.23	15	MS	HW	
11.58	13.11	1.53	1.12	73	0.36	24	MS	HW	
13.11	14.63	1.52	1.05	69	0.00	0	MS	HW	
14.63	16.15	1.52	0.08	5	0.00	0	MS	HW	
16.15	17.68	1.53	0.41	27	0.00	0	W	HW	
17.68	19.20	1.52	0.50	33	0.31	20	MS	HW	
19.20	20.73	1.53	1.50	98	1.35	88	MS	SW	
20.73	22.25	1.52	1.22	80	1.17	77	MS	HW	
22.25	23.77	1.52	1.52	100	1.36	89	MS	HW	
23.77	25.30	1.53	1.38	90	1.21	79	MS	SW	
25.30	26.82	1.52	1.55	102	1.32	87	MS	SW	
26.82	28.35	1.53	1.52	99	1.52	99	MS	HW	
28.35	29.87	1.52	1.48	97	1.20	79	MS	HW	
29.87	31.39	1.52	1.23	81	0.89	59	MS	HW	
31.39	32.92	1.53	1.10	72	0.42	27	W	HW	
32.92	34.44	1.52	1.18	78	0.48	32	W	HW	
34.44	35.97	1.53	1.53	100	0.35	23	W	SW	
35.97	37.49	1.52	1.38	91	0.75	49	MS	SW	
37.49	39.01	1.52	1.52	100	0.53	35	MS	SW	
39.01	40.54	1.53	1.53	100	0.51	33	MS	SW	
40.54	42.06	1.52	1.31	86	0.78	51	MS	SW	
42.06	43.59	1.53	1.29	84	1.09	71	MS	SW	
43.59	45.11	1.52	1.52	100	1.25	82	MS	SW	
45.11	46.63	1.52	1.40	92	1.13	74	MS	SW	
46.63	48.16	1.53	1.53	100	1.23	80	MS	SW	
48.16	49.67	1.51	1.51	100	1.30	86	MS	SW	
49.67	51.21	1.54	1.54	100	1.33	86	MS	SW	
51.21	52.73	1.52	1.45	95	1.21	80	MS	SW	
52.73	54.25	1.52	1.52	100	1.52	100	MS	SW	
54.25	55.78	1.53	1.53	100	1.43	93	MS	SW	
55.78	57.30	1.52	1.39	91	1.20	79	MS	SW	
57.30	58.83	1.53	1.40	92	1.14	75	MS	SW	
58.83	60.35	1.52	1.52	100	1.27	84	MS	FR	
60.35	61.87	1.52	1.43	94	1.07	70	MS	FR	
61.87	63.40	1.53	1.53	100	1.53	100	MS	FR	
63.40	64.92	1.52	1.52	100	1.50	99	MS	FR	
64.92	66.45	1.53	1.53	100	1.42	93	MS	FR	
66.45	67.97	1.52	1.43	94	1.07	70	MS	FR	
67.97	69.49	1.52	1.52	100	1.54	101	MS	FR	
69.49	71.02	1.53	1.46	95	1.08	71	MS	FR	
71.02	72.54	1.52	1.52	100	1.44	95	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.53	100	1.45	95	MS	FR	
74.07	75.59	1.52	1.52	100	1.37	90	MS	FR	
75.59	77.11	1.52	1.46	96	1.33	88	MS	FR	
77.11	78.64	1.53	1.53	100	1.44	94	MS	FR	
78.64	80.16	1.52	1.52	100	1.40	92	MS	FR	
80.16	81.69	1.53	1.52	99	1.43	93	MS	FR	
81.69	83.21	1.52	1.51	99	1.51	99	MS	FR	
83.21	84.73	1.52	1.52	100	1.52	100	MS	FR	
84.73	86.26	1.53	1.38	90	1.35	88	MS	FR	
86.26	87.78	1.52	1.52	100	1.35	89	MS	FR	
87.78	89.31	1.53	1.43	93	1.22	80	MS	FR	
89.31	90.83	1.52	1.52	100	1.46	96	MS	FR	
90.83	92.35	1.52	1.42	93	1.37	90	MS	FR	
92.35	93.88	1.53	1.53	100	1.53	100	MS	FR	
93.88	95.40	1.52	1.35	89	1.27	84	MS	FR	
	95.40	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-55

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
5.49	7.01	1.52	0.52	34	H885933	1.0	50	0.09	0.71	1250	27.00	
7.01	8.53	1.52	0.78	51	H885934	2.5	50	0.07	0.71	609	20.20	
8.53	10.06	1.53	0.58	38	H885936	2.0	50	0.07	0.63	1460	46.10	
10.06	11.58	1.52	0.72	47	H885937	2.0	50	0.07	0.14	837	14.80	
11.58	13.11	1.53	1.12	73	H885938	4.0	50	0.03	0.16	150	8.38	
13.11	14.63	1.52	1.05	69	H885939	4.0	50	0.02	0.11	109	2.96	
14.63	16.15	1.52	0.08	5	H885940	0.5	50	0.05	0.42	421	10.15	
16.15	17.68	1.53	0.41	27	H885941	1.5	50	0.14	1.24	1980	183.00	
17.68	19.20	1.52	0.50	33	H885943	2.0	50	0.02	0.18	339	834.00	
19.20	20.73	1.53	1.50	98	H885944	6.5	50	0.02	0.35	155	50.40	
20.73	22.25	1.52	1.22	80	H885945	5.0	50	0.05	0.62	206	173.50	
22.25	23.77	1.52	1.52	100	H885946	6.5	50	0.01	0.25	90	18.15	
23.77	25.30	1.53	1.38	90	H885947	5.5	50	0.01	0.25	92	17.95	
25.30	26.82	1.52	1.52	100	H885948	6.5	50	0.01	0.23	89	38.20	
26.82	28.35	1.53	1.52	99	H885949	6.0	51	0.02	0.19	78	12.75	
28.35	29.87	1.52	1.48	97	H885950	6.0	51	0.07	0.67	565	78.10	
29.87	31.39	1.52	1.23	81	H885951	5.0	51	0.06	1.24	366	149.00	
31.39	32.92	1.53	1.10	72	H885952	4.0	51	0.31	0.62	224	40.10	
32.92	34.44	1.52	1.18	78	H885953	4.0	51	0.03	0.27	138	36.60	
34.44	35.97	1.53	1.53	100	H885954	5.5	51	0.02	0.36	76	5.20	
35.97	37.49	1.52	1.38	91	H885955	5.0	51	0.03	0.24	27	6.05	
37.49	39.01	1.52	1.61	106	H885956	6.5	51	0.15	0.35	153	36.60	
39.01	40.54	1.53	1.53	100	H885958	4.0	51	0.03	0.17	93	6.59	
40.54	42.06	1.52	1.31	86	H885959	5.0	51	0.03	0.16	127	4.77	
42.06	43.59	1.53	1.29	84	H885960	5.0	51	0.02	0.11	92	4.25	
43.59	45.11	1.52	1.52	100	H885963	6.5	51	0.03	0.09	17	4.61	
45.11	46.63	1.52	1.40	92	H885964	6.0	51	0.04	0.14	63	3.58	
46.63	48.16	1.53	1.53	100	H885965	6.0	51	0.05	0.20	340	5.59	
48.16	49.67	1.51	1.51	100	H885967	6.0	51	0.01	0.14	78	2.76	
49.67	51.21	1.54	1.54	100	H885970	6.0	51	<0.01	0.16	69	2.25	
51.21	52.73	1.52	1.45	95	H885971	5.5	51	0.11	0.21	236	6.32	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
52.73	54.25	1.52	1.52	100	H885972	7.0	51	0.04	0.16	1470	2.17	
54.25	55.78	1.53	1.53	100	H885973	6.5	51	0.11	0.17	1680	7.70	
55.78	57.46	1.68	1.55	92	H885974	6.5	51	0.23	0.08	4620	12.20	
57.46	59.28	1.82	1.66	91	H885976	7.0	51	0.01	0.05	47	0.38	
59.28	60.35	1.07	1.07	100	H885977	4.5	51	0.01	0.07	56	0.12	
60.35	61.87	1.52	1.43	94	H885978	6.0	51	<0.01	0.05	16	0.04	
-	-	-			H885935	0.3	50	0.49	0.86	6140	104.00	Standard R-1
-	-	-			H885942	4.5	50	<0.01	0.02	5	1.17	Blank
-	-	-			H885957	4.0	51	<0.01	0.08	<5	0.16	Blank
42.06	43.59	1.53	1.29	84	H885961	2.5	51	0.03	0.15	94	4.83	Duplicate
-	-	-			H885966	0.3	51	5.57	0.37	35800	492.00	Standard R-3
-	-	-			H885975	4.0	51	0.01	0.07	28	0.15	Blank
-	-	-			H885979	0.3	51	0.49	0.84	4950	98.30	Standard R-1

BOX DENSITY LOG

HOLE: Rau-09-55

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
4	24.01	28.28	6.12	DOL		4.17	72.0	2.66	
20	90.11	94.13	6.12	LST	BX	3.93	72.0	2.82	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-55

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.00	OVB		1.14	
5.00	OVB		0.49	
6.00	LST	ALT	0.32	
7.00	LST	ALT	0.20	
8.00	LST	ALT	0.02	
9.00	LST	ALT	0.14	
10.00	LST	ALT	0.30	
11.00	LST	ALT	0.04	
12.00	LST	ALT	0.16	
13.00	LST	ALT	0.16	
14.00	LST	ALT	0.04	
15.00	DOL		0.10	
16.00	DOL		0.06	
17.00	DOL		0.26	
18.00	DOL		0.20	
19.00	DOL		0.24	
20.00	DOL		0.32	
21.00	DOL		0.49	
22.00	DOL		0.24	
23.00	DOL		0.43	
24.00	DOL		0.32	
25.00	DOL		0.43	
26.00	DOL		0.43	
27.00	DOL		0.30	
28.00	DOL		0.51	
29.00	DOL		0.38	
30.00	DOL		0.28	
31.00	DOL		0.45	
32.00	LST	ALT	0.24	
33.00	LST	ALT	0.12	
34.00	LST	ALT	0.12	
35.00	LST	ALT	0.06	
36.00	LST	ALT	0.24	
37.00	LST	ALT	0.12	
38.00	LST	ALT	0.04	
39.00	LST	ALT	0.04	
40.00	LST	ALT	0.14	
41.00	LST	ALT	0.47	
42.00	LST	ALT	0.12	
43.00	LST	ALT	0.28	
44.00	LST	ALT	0.26	
45.00	LST	ALT	0.18	
46.00	LST	ALT	0.16	
47.00	LST	ALT	0.18	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
48.00	LST	ALT	0.34	
49.00	LST	ALT	0.30	
50.00	LST	ALT	0.13	
51.00	LST	ALT	0.16	
52.00	LST	ALT	0.20	
53.00	LST	ALT	0.25	
54.00	LST	ALT	0.36	
55.00	LST	ALT	0.20	
56.00	LST	ALT	0.06	
57.00	LST	ALT	0.10	
58.00	MBL		0.05	
59.00	MBL		0.11	
60.00	LST	ALT	0.06	
61.00	LST	ALT	0.26	
62.00	LST	ALT	0.30	
63.00	LST	ALT	0.13	
64.00	LST	ALT	0.11	
65.00	LST	ALT	0.06	
66.00	LST	ALT	0.18	
67.00	LST	ALT	0.08	
68.00	LST	ALT	0.05	
69.00	LST	ALT	0.10	
70.00	LST	ALT	0.10	
71.00	LST	ALT	0.10	
72.00	LST	ALT	0.15	
73.00	LST	ALT	0.25	
74.00	LST	ALT	0.01	
75.00	LST	ALT	0.05	
76.00	LST	ALT	0.13	
77.00	LST	ALT	0.05	
78.00	LST	ALT	0.03	
79.00	LST	ALT	0.06	
80.00	LST	ALT	0.05	
81.00	LST	ALT	0.05	
82.00	LST	ALT	0.30	
83.00	LST	ALT	0.05	
84.00	LST	ALT	0.11	
85.00	LST	ALT	0.20	
86.00	LST	ALT	0.05	
87.00	LST	ALT	0.01	
88.00	LST	ALT	0.10	
89.00	LST	ALT	0.11	
90.00	LST	ALT	0.03	
91.00	LST	ALT	0.06	
92.00	LST	ALT	0.03	
93.00	LST	ALT	0.08	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
94.00	LST	ALT	0.06	
95.00	LST	ALT	0.06	

BOX LOG

HOLE: Rau-09-55

BOX	FROM (m)	TO (m)
1	3.60	11.52
2	11.52	19.80
3	19.80	24.01
4	24.01	28.28
5	28.28	32.92
6	32.92	37.07
7	37.07	41.22
8	41.22	45.60
9	45.60	49.67
10	49.67	53.64
11	53.64	57.91
12	57.91	62.07
13	62.07	66.09
14	66.09	70.24
15	70.24	74.31
16	74.31	78.30
17	78.30	82.23
18	82.23	86.26
19	86.26	90.11
20	90.11	94.13
21	94.13	95.40
	95.40	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+250 NW

HOLE: Rau-09-56
CLAIM: Rau-69

Easting	Northing	Elev.	Depth (m)
528434.8	7119327	1360	125.88

Contractor: Superior
Drill: Oxide (2)

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 4.57 (m) in

Drilling dates: Aug 29 - Sept 2, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Coments
0.00	2.87	2.87	OVB	
2.87	63.67	60.80	LST	Fossiliferous
63.67	66.04	2.37	VOL	Clay altered
66.04	68.87	2.83	LST	Marbellized
68.87	83.35	14.48	OX	Clay rich with rubble zones
83.35	83.88	0.53	VOL	Clay altered
83.88	108.36	24.48	OX	Clay rich with rubble zones
108.36	125.88	17.52	LST	Contains coarse grained dolomite veins

SAMPLES

Numbers: H885108-H885139 Batch 52, 53

Total: 32
Date sent:
Certificate: VA09100665, VA06100664

COMMENTS

The hole was ended at 125.88 m because the hole was caving in on the rods.

GEOLOGY LOG

HOLE: Rau-09-56

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.87	2.87	OVB																			
2.87	63.67	60.80	LST	FOS	BX	BD	70								t							Medium grey limestone with patches and layers of white calcite. There is a banded appearance but it is often deformed by stylolitic markings. There is a slightly coliform texture between the Ca and the limestone. There appears to be a strong event of irregular deformation of the limestone. Where banding is visible it occurs at 70 deg to CA. It appears that there has been 2 calcite events. A milky white one, and a clearer white. The clear one is inside the milky one. Overall the core is moderately blocky. Rare (trace) coral stems occur.
													He	t								18.92-34.50 m: Limestone has much less infiltration by Ca. The limestone itself has a purpley grey colour and is more massive with no banding and weak brecciation. Where the brecciation by Ca occurs, it is much cleaner and mosaic style with angular to subangular clasts. Where the multiphase calcite occurs there is often a thin border of fine grained black crystals (non-magnetic). Slight increase in the concentration of coral and crinoids (still trace). Trace patches of red hematite. Very
																						trace fine grained disseminated pyrite.
																						25.50-26.00 m: Massive creamy calcite vein. Fairly rubbly.
																						34.50-63.67 m: Medium grey banded limestone. Bands occur from 40-60 deg to CA. Fossils occur weakly concentrated in gritty looking zones as crinoid stem fragments up to 0.4 cm in diameter. These zones are slightly deformed. The interval is rather blocky with medium tan/brown clay coating many of the fractures. Banding varies as follows:
						BD	60															34.50-46.00 m: BD-60
						BD	55															46.00-54.00 m: BD-55

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	40															54.00-59.00 m: BD-40
						BD	45															59.00-63.67 m: BD-45
63.67	66.04	2.37	VOL	ALT	FO	FO	45															Light yellow extremely altered volcaniclastic. FO is faint but occurs at 45 deg to CA. A clast of limestone 4 cm long occurs within. Approximately 2/3 down the clayish alteration becomes gritty medium brown colour. Overall the interval has quite poor recovery.
				CLY																		
66.04	68.87	2.83	LST	ALT	BN	BD	55						MBL	w								Medium grey banded limestone with weak marbleization giving the core a weakly sugary texture. Banding occurs at 55 deg to CA. The interval is only weakly rubbly/blocky. Rare tan/brown clay occurs on fractures. Lower contact is very sharp at 30 deg to CA.
						CN	30															
68.87	83.35	14.48	OX	CLY																		Medium orange-brown clay with gritty dark brown limonite fragments. Overall the zone is quite homogeneous. (COLOUR 7.5 YR 4/6 - strong brown).
				RBL																		
			DOL	ALT	BN	BD	60					f										69.82-70.25 m: There is a fragment of medium grained weakly to strongly altered dolomite. Banding occurs at 60 deg to CA. Fine grained patchy sulphides occur in rough bands, weak overall.
			OX	CLY																		70.25-75.59 m: Medium orange-red-brown clay with limonitic rubbly and weak concentration of yellow mica flakes scattered throughout. (COLOUR 7.5 YR 4/4 - brown).
																						74.07-74.38 m: Clay is slightly more micacious and slightly greenish in colour. (COLOUR 2.5YR 5/4 - light olive brown).
				RBL																		75.59-80.16 m: The oxide gradually becomes less clay rich and limonitic rubble becomes more dominant. (COLOUR 5YR 4/4 0 reddish brown).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						80.16-81.69 m: Medium orange brown oxide grit with fair amounts of clay and moderate quartz rubble. The quartz fragments are sub-rounded to sub-angular up to 6 cm in diameter but average 0.5-1 cm. The quartz is fairly evenly distributed throughout. (COLOUR 7.5 R 4/6 - strong brown).
																						81.69-83.35 m: Medium orange-brown to red-brown clay with limonitic fragments. Weak concentration of yellow micaceous flakes are scattered throughout. Quartz fragments (sub-angular) up to 1.5 cm occur in weak concentration (1-3 %). The latter half of the interval becomes increasingly limonitic.
83.35	83.88	0.53	VOL	CLY	FO	FO	60															Greenish-grey-brown clay with moderate to strong concentration of yellow mica flakes. A slight banding occurs at 60 deg to CA. The interval has a strong concentration of sand to gravel sized.
83.88	108.36	24.48	OX	CLY																		Medium orange-brown clay oxide with rubbly limonitic fragments up to 1.5 cm in diameter. (COLOUR 7.5 YR 4/4 - brown).
				RBL																		83.88-92.35 m: Orange-brown gritty clay oxide with limonitic fragments within.
																						92.35-97.14 m: Orange-brown gritty clay oxide with a 15 cm zone of green-grey-brown clay at 93.56-93.80 m. Also at 94.47-94.74 m, there is a zone of yellow-orange clay, possibly a thin volcaniclastic layer.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						97.14-108.34 m: Medium to dark red-orange-brown rubbly clay oxide with dark red-brown clay limonite rubble within. This zone appears to be a feathering out of the clay oxide zone. Within there are intervals of highly altered grey-brown altered limestone, as well as intervals of brecciated limestone. 65% oxide, 35% limestone. Within the limestone interval there is a 5 cm brecciated band that occurs at 55 deg to CA. Within the band there are orange-red strongly oxidized sulphides (trace). Within the oxide there are pockets that contain bright yellow clay oxide- overall 1-2 %.
108.36	125.88	17.52	LST			VN	10															Medium grey limestone with zones of coarse grained dolomite. These dolomite zones are often pink (Rhochrosite?) Overall the zone is quite blocky. Thin 0.2-0.4 cm calcite veins cut at 10, 30, 80 deg to CA. These veins are open filling (can see the coarse grained filling texture). Strongly oxidized pyrite, trace, occurs in a sub- to euhedral fashion throughout.
						VN	30															
						VN	80															
																						116.73-119.78 m: Particularly oxidized zone with a 15 cm clay zone.
																						125.88 m: E.O.H - the hole was ended because it was caving in on the rods.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-56

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
2.87	3.96	1.09	1.09	100	0.00	0	MS	FR	
3.96	5.49	1.53	1.17	76	0.23	15	MS	FR	
5.49	7.01	1.52	0.70	46	0.10	7	MS	FR	
7.01	8.53	1.52	0.78	51	0.00	0	MS	FR	
8.53	10.06	1.53	1.40	92	0.00	0	S	FR	
10.06	11.58	1.52	1.35	89	0.25	16	S	FR	
11.58	13.11	1.53	1.03	67	0.36	24	S	FR	
13.11	14.63	1.52	1.04	68	0.25	16	S	FR	
14.63	16.15	1.52	1.42	93	0.92	61	S	FR	
16.15	17.68	1.53	1.43	93	0.82	54	MS	FR	
17.68	19.20	1.52	1.18	78	0.26	17	MS	FR	
19.20	20.73	1.53	1.21	79	0.43	28	MS	FR	
20.73	22.25	1.52	1.23	81	0.39	26	VS	FR	
22.25	23.77	1.52	1.20	79	0.20	13	VS	FR	
23.77	25.30	1.53	0.80	52	0.24	16	S	FR	
25.30	26.82	1.52	0.95	63	0.10	7	S	FR	
26.82	28.35	1.53	0.80	52	0.10	7	S	FR	
28.35	29.87	1.52	0.99	65	0.00	0	VS	FR	
29.87	31.39	1.52	0.96	63	0.00	0	S	SW	
31.39	32.92	1.53	1.10	72	0.12	8	MS	FR	
32.92	34.44	1.52	1.38	91	0.14	9	MS	FR	
34.44	35.97	1.53	1.41	92	0.11	7	VS	FR	
35.97	37.49	1.52	1.00	66	0.00	0	S	SW	
37.49	39.01	1.52	0.88	58	0.00	0	VS	SW	
39.01	40.54	1.53	0.88	58	0.00	0	VS	SW	
40.54	42.06	1.52	0.57	37	0.00	0	VS	FR	
42.06	43.59	1.53	1.05	69	0.35	23	MS	SW	
43.59	45.11	1.52	0.95	63	0.00	0	MS	SW	
45.11	46.63	1.52	0.65	43	0.00	0	MS	SW	
46.63	48.16	1.53	1.43	93	1.00	65	S	FR	
48.16	49.68	1.52	1.25	82	0.83	55	MS	FR	
49.68	51.21	1.53	0.90	59	0.36	24	MS	MW	
51.21	52.73	1.52	0.85	56	0.00	0	MS	MW	
52.73	54.25	1.52	0.75	49	0.00	0	MS	MW	
54.25	55.78	1.53	1.35	88	0.30	20	MS	MW	
55.78	57.30	1.52	1.12	74	0.58	38	MS	FR	
57.30	58.83	1.53	1.25	82	0.48	31	MS	FR	
58.83	60.35	1.52	0.81	53	0.40	26	MS	FR	
60.35	61.87	1.52	0.48	32	0.10	7	MS	MW	
61.87	63.40	1.53	0.36	24	0.20	13	MS	MW	
63.40	64.92	1.52	0.42	28	0.00	0	MS	MW	
64.92	66.45	1.53	0.68	44	0.00	0	VW	HW	
66.45	67.97	1.52	0.95	63	0.00	0	MS	MW	
67.97	69.49	1.52	1.07	70	0.50	33	W	MW	
69.49	71.02	1.53	1.19	78	0.77	50	EW	HW	
71.02	72.54	1.52	1.52	100	0.00	0	EW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.25	82	0.00	0	EW	EW	
74.07	75.59	1.52	1.42	93	0.00	0	EW	EW	
75.59	77.11	1.52	0.96	63	0.00	0	EW	EW	
77.11	78.64	1.53	1.24	81	0.00	0	EW	EW	
78.64	80.16	1.52	0.97	64	0.00	0	EW	EW	
80.16	81.69	1.53	0.95	62	0.00	0	EW	EW	
81.69	83.21	1.52	1.00	66	0.00	0	EW	EW	
83.21	84.73	1.52	1.33	87	0.00	0	EW	EW	
84.73	86.26	1.53	0.58	38	0.00	0	EW	EW	
86.26	87.78	1.52	1.12	74	0.00	0	EW	EW	
87.78	89.31	1.53	1.15	75	0.00	0	EW	EW	
89.31	90.83	1.52	1.46	96	0.00	0	EW	EW	
90.83	92.35	1.52	1.45	95	0.00	0	EW	EW	
92.35	93.88	1.53	1.35	88	0.00	0	EW	EW	
93.88	95.40	1.52	1.45	95	0.00	0	EW	EW	
95.40	96.93	1.53	1.43	93	0.00	0	EW	EW	
96.93	98.45	1.52	1.49	98	0.00	0	EW	EW	
98.45	99.97	1.52	1.30	86	0.00	0	EW	EW	
99.97	101.94	1.97	1.45	74	0.00	0	EW	EW	
101.94	103.02	1.08	1.08	100	0.34	31	EW	EW	
103.02	104.55	1.53	1.50	98	0.42	27	EW	EW	
104.55	106.07	1.52	1.32	87	0.15	10	EW	EW	
106.07	107.59	1.52	1.45	95	0.00	0	EW	EW	
107.59	109.12	1.53	1.45	95	0.50	33	MS	HW	
109.12	110.64	1.52	1.49	98	1.18	78	MS	SW	
110.64	112.17	1.53	1.53	100	0.67	44	MS	SW	
112.17	113.69	1.52	1.33	88	0.33	22	MS	MW	
113.69	115.21	1.52	1.34	88	0.11	7	MS	SW	
115.21	116.73	1.52	0.83	55	0.10	7	MS	SW	
116.73	118.26	1.53	0.85	56	0.28	18	S	HW	
118.26	119.79	1.53	0.80	52	0.00	0	W	HW	
119.79	121.31	1.52	0.21	14	0.00	0	MS	MW	
121.31	122.83	1.52	0.94	62	0.42	28	S	SW	
122.83	124.36	1.53	0.82	54	0.00	0	S	MW	
124.36	125.88	1.52	0.35	23	0.00	0	MS	MW	
	125.88	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-56

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
60.67	63.67	3.00	0.81	27	H885108	4.0	52	0.02	0.35	82	0.71	
63.67	66.04	2.37	0.58	24	H885109	2.0	52	0.01	0.81	523	92.00	
66.04	68.87	2.83	2.37	84	H885110	9.0	52	0.02	0.24	186	2.56	
68.87	69.82	0.95	0.40	42	H885111	1.0	52	0.07	1.96	10500	981.00	
69.82	70.25	0.43	0.43	100	H885113	3.0	52	0.02	1.09	272	789.00	
70.25	72.54	2.29	1.73	76	H885114	4.0	52	0.13	12.50	13000	690.00	
72.54	75.59	3.05	2.65	87	H885115	7.0	52	1.47	5.71	23100	553.00	
75.59	78.64	3.05	2.56	84	H885116	7.0	52	6.64	2.62	81500	937.00	
78.64	80.16	1.52	1.28	84	H885117	3.0	52	9.69	2.67	37000	1170.00	
80.16	81.69	1.53	1.05	69	H885118	3.0	52	2.27	1.74	12400	533.00	
81.69	83.35	1.66	1.30	78	H885119	4.0	52	4.66	1.64	22800	636.00	
83.35	83.88	0.53	0.53	100	H885120	2.0	52	31.90	9.92	6880	563.00	
83.88	86.26	2.38	1.35	57	H885121	3.4	53	2.77	2.58	18600	427.00	
86.26	89.31	3.05	2.65	87	H885122	6.0	53	2.31	0.43	14100	295.00	
89.31	92.35	3.04	3.05	100	H885124	4.2	53	12.05	1.12	20400	982.00	
92.35	95.40	3.05	3.05	100	H885125	7.0	53	0.97	0.20	19400	102.50	
95.40	97.14	1.74	1.40	80	H885126	4.0	53	1.20	0.43	17700	234.00	
97.14	99.97	2.83	2.33	82	H885127	7.3	53	1.40	0.28	7980	315.00	
99.97	103.02	3.05	2.53	83	H885128	7.7	53	0.91	0.36	6020	135.00	
103.02	106.07	3.05	2.54	83	H885130	0.9	53	1.24	1.62	6040	246.00	
106.07	108.34	2.27	2.27	100	H885131	7.0	53	0.72	0.95	5590	164.00	
108.34	110.64	2.30	2.21	96	H885133	9.0	53	0.10	0.13	418	4.57	
110.64	113.69	3.05	2.85	93	H885134	11.0	53	0.05	0.28	424	4.40	
113.69	116.73	3.04	2.02	66	H885135	8.0	53	0.07	0.32	371	5.50	
116.73	119.79	3.06	1.52	50	H885137	6.0	53	0.12	0.32	1960	40.70	
119.79	122.83	3.04	1.07	35	H885138	4.0	53	0.09	0.23	683	6.44	
122.83	125.88	3.05	1.10	36	H885139	4.2	53	0.10	0.20	670	6.49	
-	-	-			H885112	0.3	52	0.51	0.99	4680	97.00	Standard R-1
-	-	-			H885123	4.2	53	0.01	0.08	33	1.00	Blank
-	-	-			H885129	0.3	53	1.72	1.65	26500	335.00	Standard R-2
-	-	-			H885132	4.0	53	0.23	0.04	20	6.14	Blank

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
113.69	116.73	3.04	2.02	66	H885136	4.0	53	0.04	0.27	365	5.76	Duplicate

BOX DENSITY LOG

HOLE: Rau-09-56

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
16	73.32	77.50	6.12	OX	CLY	3.02	43	2.20	
17	77.50	81.50	6.12	OX	CLY	2.65	46	2.68	
18	81.50	86.70	6.12	OX	CLY	3.28	49	2.30	
19	86.70	90.50	6.12	OX	CLY	2.88	33	1.77	
20	90.50	94.30	6.12	OX	CLY	3.19	44	2.13	
21	94.30	98.45	6.12	OX	CLY	3.77	42	1.72	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-56

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
2.87	LST	FOS	0.01	
3.00	LST	FOS	0.00	
4.00	LST	FOS	0.03	
5.00	LST	FOS	0.01	
6.00	LST	FOS	0.00	
7.00	LST	FOS	0.01	
8.00	LST	FOS	0.03	
9.00	LST	FOS	0.00	
10.00	LST	FOS	0.08	
11.00	LST	FOS	0.13	
12.00	LST	FOS	0.01	
13.00	LST	FOS	0.05	
14.00	LST	FOS	0.01	
15.00	LST	FOS	0.05	
16.00	LST	FOS	0.18	
17.00	LST	FOS	0.06	
18.00	LST	FOS	0.03	
19.00	LST	FOS	0.06	
20.00	LST	FOS	0.03	
21.00	LST	FOS	0.45	
22.00	LST	FOS	0.03	
23.00	LST	FOS	0.05	
24.00	LST	FOS	0.03	
25.00	LST	FOS	0.03	
26.00	LST	FOS	0.03	
27.00	LST	FOS	0.01	
28.00	LST	FOS	0.01	
29.00	LST	FOS	0.05	
30.00	LST	FOS	0.06	
31.00	LST	FOS	0.00	
32.00	LST	FOS	0.08	
33.00	LST	FOS	0.00	
34.00	LST	FOS	0.03	
35.00	LST	FOS	0.10	
36.00	LST	FOS	0.26	
37.00	LST	FOS	0.06	
38.00	LST	FOS	0.25	
39.00	LST	FOS	0.08	
40.00	LST	FOS	0.08	
41.00	LST	FOS	0.03	
42.00	LST	FOS	0.31	
43.00	LST	FOS	0.11	
44.00	LST	FOS	0.05	
45.00	LST	FOS	0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
46.00	LST	FOS	0.30	
47.00	LST	FOS	0.03	
48.00	LST	FOS	0.10	
49.00	LST	FOS	0.01	
50.00	LST	FOS	0.11	
51.00	LST	FOS	0.08	
52.00	LST	FOS	0.06	
53.00	LST	FOS	0.01	
54.00	LST	FOS	0.03	
55.00	LST	FOS	0.10	
56.00	LST	FOS	0.00	
57.00	LST	FOS	0.05	
58.00	LST	FOS	0.03	
59.00	LST	FOS	0.00	
60.00	LST	FOS	0.18	
61.00	LST	FOS	0.06	
62.00	LST	FOS	N/A	
63.00	LST	FOS	0.01	
64.00	VOL	CLY	0.30	
65.00	VOL	CLY	0.38	
66.00	VOL	CLY	0.01	
67.00	LST	ALT	0.38	
68.00	OX	CLY	0.06	
69.00	OX	CLY	0.57	
70.00	OX	CLY	0.36	
71.00	OX	CLY	0.55	
72.00	OX	CLY	0.87	
73.00	OX	CLY	0.36	
74.00	OX	CLY	0.30	
75.00	OX	CLY	0.65	
76.00	OX	CLY	0.40	
77.00	OX	CLY	0.62	
78.00	OX	CLY	0.62	
79.00	OX	CLY	0.92	
80.00	OX	CLY	0.20	
81.00	OX	CLY	0.62	
82.00	OX	CLY	1.04	
83.00	OX	CLY	0.77	
84.00	OX	CLY	0.85	
85.00	OX	CLY	0.23	
86.00	OX	CLY	0.18	
87.00	OX	CLY	0.28	
88.00	OX	CLY	0.68	
89.00	OX	CLY	0.47	
90.00	OX	CLY	0.42	
91.00	OX	CLY	0.58	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
92.00	OX	CLY	0.94	
93.00	OX	CLY	0.38	
94.00	OX	CLY	0.38	
95.00	OX	CLY	0.26	
96.00	OX	CLY	0.62	
97.00	OX	CLY	0.16	
98.00	OX	CLY	0.18	
99.00	OX	CLY	0.25	
100.00	OX	CLY	0.48	
101.00	OX	CLY	0.55	
102.00	OX	CLY	0.10	
103.00	OX	CLY	0.48	
104.00	OX	CLY	0.10	
105.00	OX	CLY	0.73	
106.00	OX	CLY	0.62	
107.00	OX	CLY	0.15	
108.00	OX	CLY	0.13	
109.00	LST		0.06	
110.00	LST		0.11	
111.00	LST		0.10	
112.00	LST		0.05	
113.00	LST		0.40	
114.00	LST		0.18	
115.00	LST		0.08	
116.00	LST		0.16	
117.00	LST		0.52	
118.00	LST		0.15	
119.00	LST		0.15	
120.00	LST		N/A	redrilled
121.00	LST		0.33	
122.00	LST		0.10	
123.00	LST		0.10	
124.00	LST		0.36	
125.00	LST		0.16	

BOX LOG

HOLE: Rau-09-56

BOX	FROM (m)	TO (m)
1	2.87	7.27
2	7.00	11.30
3	11.30	15.69
4	15.69	19.90
5	19.90	24.17
6	24.17	29.83
7	29.83	34.44
8	34.44	38.25
9	38.25	42.73
10	42.73	47.61
11	47.61	51.80
12	51.80	56.49
13	56.49	63.14
14	63.14	68.96
15	68.96	73.22
16	73.22	77.50
17	77.50	71.50
18	71.50	86.70
19	86.70	90.50
20	90.50	94.30
21	94.30	98.45
22	98.45	102.82
23	102.82	106.95
24	106.95	111.07
25	111.07	115.21
26	115.21	122.25
27	122.25	125.88
	125.88	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+350 NW

HOLE: Rau-09-57
CLAIM: Rau 69

Easting	Northing	Elev.	Depth (m)
528313	7119356	1381	71.63

Contractor: Superior
Drill: Oxide (3)

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-83	compass				

Core size: HQ
Casing depth: 4.27 (m) out

Drilling dates: Aug 29- Sep 03, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.05	1.05	OVB	
1.05	33.00	31.95	LST	Fossiliferous
33.00	50.50	17.50	LST	Dolomitized
50.50	60.96	10.46	OX	Clay rich
60.96	71.63	10.67	LST	

SAMPLES

Numbers: H885143-H885152 Batch 53

Total: 10
Date sent:
Certificate: VA09100664

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-57

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.05	1.05	OVB																			
1.05	33.00	31.95	LST	FOS									MBL	w	t							Medium grey limestone, variably foliated and/or brecciated. Quite blocky and fractured with poor recovery in parts. Small intervals of rubbly limestone. Minor brownish weathering on fractures. A few tan/whitish intervals of marbleised limestone occur. Some small crinoid fragments.
				ALT		FO	40															5 m: foliations bend around augen-style calcite nodules.
																						10.5-12 m: More competent, brecciated region with increased (chaotic) calcite veins/flood.
																						Trace Py on some fractures, rusty cubes.
																						12.40-12.50 m: Light brown, clayey gouge region. Around this are the limestone is much more crumbly.
						FO	50															13 m: Foliation occurs at 50 deg to CA.
													MBL	m								21.34-22.86 m: Lighter coloured and more marbleized.
						FO	60															24 m: Increased black stringers veinlets.
						FO	50			w												27.60-28.96 m: Orangey-tan, marbleized limestone, moderately foliated with thin sericite stringers.
						FO	55															33 m: Foliation occurs at 55 deg to CA.
33.00	50.50	17.50	LST	ALT	BX	VT	25		w						t							Limestone is now dirty tan-grey in colour and crackled/brecciated, with a few small intervals of broken fragments (+/- Qz) and small clay/gouge intervals. Traces of rusty, weathered pyrite cubes. Weak foliation in places, with common low angle crosscutting DOL+/- Qz veins and minor brown alteration. Limestone is quite vuggy in places. Several <10 cm intervals of broken white quartz fragments 0.5-3cm in size occur.
						FO	45															48.50-50.50 m: Mixture of light brown clay oxide (25%) in with dirty limestone fragments (75%).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
50.50	60.96	10.46	OX	CLY																		Brown clay rich oxide, with scattered white quartz fragments (sometimes concentrated). Oxide colour ranges from darker brown, through slightly lighter brown, to reddish brown. Flakes of sericite present in many places. (COLOUR: 7.5YR 4/4 - brown)
																						52.60-53.18 m: (poor recovery so interval vague). Mostly white Qz, fragments to core size.
																						53.34-56.39 m: Clay in this interval is slightly more yellowish in colour.
																						56.39-57.91 m: More liquid/soft, doesn't hold core shape
																						57.91-59.44 m: Slightly more competent and reddish brown, with prevalent quartz occurring predominantly as coarse sand sized grains throughout.
																						59.44-60.96 m: More tan-brown in colour with less quartz, some sericite flakes, and clay forming "faces"…smooth flat surfaces, but can still be indented by a finger.
60.96	71.63	10.67	LST		FO	FO	35								t							Same light brownish tan dirty LST, very calcareous slightly gritty/vuggy in appearance, with chaotic weathered calcite veinlets crosscutting the banding. Trace disseminated rusty red Py cubes. Generally fairly fractured with some rubbly zones. Weak foliation occurs at 35 deg. Rare alignment of veinlets and cracks occurs.
						FO	25															68 m: Foliation occurs at 25 deg to CA.
																						70.33-71.55 m: Void and clay (<5cm) some slightly orangey fracture staining at 70 m.
																						71.63 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-57

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.05	1.52	0.47	0.38	81	0.00	0	MS	SW	
1.52	3.05	1.53	0.38	25	0.00	0	MS	SW	
3.05	4.57	1.52	0.36	24	0.00	0	MS	SW	
4.57	6.10	1.53	0.75	49	0.10	7	S	SW	
6.10	7.62	1.52	0.73	48	0.11	7	MS	SW	
7.62	9.14	1.52	0.52	34	0.00	0	MS	SW	
9.14	10.67	1.53	0.48	31	0.25	16	MS	SW	
10.67	12.19	1.52	1.42	93	1.32	87	MS	SW	
12.19	13.72	1.53	0.98	64	0.10	7	MS	MW	
13.72	15.24	1.52	0.89	59	0.13	9	MS	SW	
15.24	16.76	1.52	0.47	31	0.10	7	MS	SW	
16.76	18.29	1.53	1.25	82	0.60	39	MS	SW	
18.29	19.81	1.52	0.39	26	0.00	0	MS	SW	
19.81	21.34	1.53	0.57	37	0.00	0	MS	SW	
21.34	22.86	1.52	0.60	39	0.00	0	MS	SW	
22.86	24.38	1.52	1.00	66	0.15	10	MS	MW	
24.38	25.91	1.53	1.39	91	0.20	13	MS	SW	
25.91	27.43	1.52	1.30	86	0.53	35	MS	SW	
27.43	28.96	1.53	1.13	74	0.47	31	S	SW	
28.96	30.48	1.52	0.30	20	0.00	0	MS	SW	void
30.48	32.00	1.52	1.09	72	0.44	29	MS	MW	
32.00	33.53	1.53	1.12	73	0.24	16	MS	MW	
33.53	35.05	1.52	1.22	80	0.16	11	MS	MW	
35.05	36.58	1.53	1.07	70	0.33	22	S	MW	
36.58	38.10	1.52	0.93	61	0.42	28	MS	MW	
38.10	39.62	1.52	0.76	50	0.42	28	S	MW	
39.62	41.15	1.53	0.52	34	0.30	20	MS	MW	
41.15	42.67	1.52	0.56	37	0.17	11	MS	MW	
42.67	44.20	1.53	0.69	45	0.30	20	MS	MW	
44.20	45.72	1.52	0.73	48	0.40	26	MS	HW	
45.72	47.24	1.52	0.19	13	0.12	8	VS	HW	
47.24	48.77	1.53	0.78	51	0.00	0	MS	MW	
48.77	50.29	1.52	1.03	68	0.00	0	S	HW	
50.29	51.82	1.53	1.18	77	0.00	0	EW	EW	
51.82	53.34	1.52	1.10	72	0.00	0	EW	EW	
53.34	54.86	1.52	1.27	84	0.00	0	EW	EW	
54.86	56.39	1.53	1.09	71	0.00	0	EW	EW	
56.39	57.91	1.52	0.44	29	0.00	0	EW	EW	
57.91	59.44	1.53	1.32	86	0.00	0	EW	EW	
59.44	60.96	1.52	0.70	46	0.00	0	EW	EW	
60.96	62.48	1.52	0.64	42	0.00	0	S	MW	
62.48	64.01	1.53	0.90	59	0.00	0	MS	SW	
64.01	65.53	1.52	1.52	100	0.77	51	MS	MW	
65.53	67.06	1.53	1.19	78	0.83	54	MS	MW	
67.06	68.58	1.52	1.48	97	0.93	61	MS	SW	
68.58	70.10	1.52	1.08	71	0.38	25	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
70.10	71.63	1.53	0.29	19	0.00	0	MS	SW	Void at 70.33m
	71.63	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-57

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
47.24	48.77	1.53	0.78	51	H885143	3.0	53	0.19	2.08	1820	61.70	
48.77	50.29	1.52	1.03	68	H885144	3.0	53	0.07	10.95	1640	34.40	
50.29	51.82	1.53	1.18	77	H885145	4.0	53	0.21	2.83	3590	121.00	
51.82	53.34	1.52	1.10	72	H885146	4.0	53	0.29	2.23	5670	283.00	
53.34	54.86	1.52	1.27	84	H885147	3.0	53	0.70	1.84	24200	399.00	
54.86	56.39	1.53	1.09	71	H885148	3.0	53	1.13	3.03	15700	368.00	
56.39	57.91	1.52	0.44	29	H885149	2.0	53	0.73	42.60	11300	274.00	
57.91	59.44	1.53	1.32	86	H885150	4.0	53	0.98	21.40	18700	433.00	
59.44	60.96	1.52	0.70	46	H885151	2.0	53	2.78	5.73	9830	96.10	
60.96	62.48	1.52	0.64	42	H885152	2.0	53	0.61	2.69	1000	11.00	

BOX DENSITY LOG

HOLE: Rau-09-57

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
11	52.6	57.91	6.12	OX	CLY	3.21	46	2.21	Qz material for 0.25 m

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-57

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
1.05	LST		0.03	
2.00	LST		0.06	
3.00	LST		0.05	
4.00	LST		0.05	
5.00	LST		0.26	
6.00	LST		0.03	
7.00	LST		0.03	
8.00	LST		0.01	
9.00	LST		0.18	
10.00	LST		0.03	
11.00	LST		0.05	
12.00	LST		0.42	
13.00	LST		0.20	
14.00	LST		0.26	
15.00	LST		0.05	
16.00	LST		0.10	
17.00	LST		0.03	
18.00	LST		0.03	
19.00	LST		0.08	
20.00	LST		0.03	
21.00	LST		0.01	
22.00	LST		0.15	
23.00	LST		0.10	
24.00	LST		0.10	
25.00	LST		0.18	
26.00	LST		0.06	
27.00	LST		0.05	
28.00	LST		0.28	
29.00	LST		0.10	
30.00	LST		0.03	
31.00	LST		0.21	
32.00	LST		0.03	
33.00	LST		0.26	
34.00	LST		0.08	
35.00	LST		0.03	
36.00	LST		0.06	
37.00	LST		0.01	
38.00	LST		0.05	
39.00	LST		0.05	
40.00	LST		0.08	
41.00	LST		0.00	
42.00	LST		0.05	
43.00	LST		0.10	
44.00	LST		0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	LST		0.47	
46.00	LST		0.10	
47.00	LST		0.08	
48.00	LST		0.06	
49.00	LST		0.65	
50.00	LST		0.08	
51.00	OX	CLY	0.52	
52.00	OX	CLY	0.45	
53.00	OX	CLY	0.60	
54.00	OX	CLY	0.50	
55.00	OX	CLY	0.53	
56.00	OX	CLY	0.52	
57.00	OX	CLY	3.22	
58.00	OX	CLY	0.73	
59.00	OX	CLY	0.63	
60.00	OX	CLY	0.72	
61.00	LST		0.05	
62.00	LST		0.08	
63.00	LST		0.16	
64.00	LST		0.11	
65.00	LST		0.38	
66.00	LST		0.23	
67.00	LST		0.11	
68.00	LST		0.05	
69.00	LST		0.06	
70.00	LST		0.06	

BOX LOG

HOLE: Rau-09-57

BOX	FROM (m)	TO (m)
1	1.05	6.70
2	6.70	12.19
3	12.19	16.76
4	16.76	22.64
5	22.64	25.91
6	25.91	30.50
7	30.50	34.70
8	34.70	40.03
9	40.03	47.75
10	47.75	52.60
11	52.60	57.91
12	57.91	62.68
13	62.68	66.37
14	66.37	71.63
	71.63	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+200NW

HOLE: Rau-09-58
CLAIM: Rau-69

Easting	Northing	Elev.	Depth (m)
528339	7119179	1295	74.07

Contractor: Superior
Drill: Oxide 2

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: (m) out

Drilling dates: Sept 2-3, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.25	2.25	OVB	
2.25	13.11	10.86	LST	
13.11	25.53	12.42	DOL	Oxidized in parts
25.53	27.90	2.37	MBL	
29.70	31.03	1.33	LST	Fossiliferous
31.03	34.78	3.75	MBL	
34.78	38.16	3.38	DOL	
38.16	74.07	35.91	LST	

SAMPLES	
Numbers:	H885153-H885173
	Batch 53, 54
Total:	21
Date sent:	
Certificate:	VA09100664, VA09100666

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-58

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.25	2.25	OVB																			
2.25	13.11	10.86	LST		BX																	Medium grey limestone with moderately strong brecciation by medium grained Ca veins. On top of the brecciation there is an overall weak crackle texture.
					CR																	
				ALT								w			f							7.85-8.30 m: Interval of moderately altered brecciated limestone with strongly oxidized sulphides (probable pyrite) fair.
																						10.06-13.11 m: The limestone becomes progressively more carbonate altered and slightly blocky.
13.11	25.53	12.42	DOL	ALT								f			w	t						Weak to strongly oxidized coarse grained dolomite with thin sections of limestone. The dolomite is coarse grained. Pyrite (weak) and Arsenopyrite (trace) occur scattered throughout as fine grained subhedral crystals.
				RBL																		13.11-14.63 m: Very poor recovery. Extremely carbonate altered limestone with trace limestone fragments. The zone is all rubble.
						BD	65															16.15-20.50 m: Coarse grained weakly to strongly oxidized dolomite with a tanish-orange colouration. Weak banding occurs at 65 deg to CA. Weak pyrite and trace arsenopyrite are widely disseminated.
																						16.15-16.53 m: The dolomite is strongly oxidized.
						VN	30															20.50-25.53 m: The dolomite becomes weaker with interzones of medium grey limestone. 60% dolomite 40% limestone. Ca veins occur in the limestone at 30 deg to CA.
25.53	27.90	2.37	MBL			VN	60			f					w							Very light grey marble with thin wispy stringers of yellow/orange sericite at 60 deg to CA. Weak pyrite occurs disseminated throughout.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
27.90	31.03	3.13	LST	FOS	MA																	Medium to dark grey fairly fossiliferous limestone. The limestone appears quite massive with a fine foliation at 50 deg to CA. Structural foliation deforms the crinoid stem fragments.
					FO	FO	50															Upper and lower contacts are gradational.
						VN	65															Thin Ca veinlets occur at 60-70 deg to CA.
31.03	34.78	3.75	MBL			BD	60								w	t						White to very light grey marble with thin beige-yellow-green sericite stringers. Patchy slightly banded pyrite (weak) and arsenopyrite (trace). Very weak banding occurs at 60 deg to CA.
34.78	38.16	3.38	DOL			VN	40															Medium grey limestone with tan-orange tinted medium to coarse grained dolomite that appears to be at least in part vein controlled at 40 deg to CA. Crackle fractures have a beige-brown stain surrounding them. Patchy arsenopyrite and pyrite occur weakly scattered throughout.
38.16	74.07	35.91	LST		BN	BD	50															38.16-45.11 m: Banded medium grey and medium-dark grey limestone with crinoid stem fragments occurring fairly scattered throughout and 0.2-0.4 cm in diameter. Pyrite occurs scattered throughout as trace fine to medium grained subhedral crystals.
						BD	40															44 m: The banding changes to 40 deg to CA.
						VN	25															45.11-60.03 m: Medium to dark limestone with crinoid stem fragments fair overall with zones of moderately strong concentration 0.2-0.4 cm in diameter. White calcite occurs in 0.3-1.5 cm veins that are at either 25 or 50 deg to CA.
						VN	50															
						FR	50															52.00-52.34 m: Zone of orange-tan-brown alteration staining in a healed fracture zone. Some of the stain is slightly redder in colour and is probably hematite.
													He	w								58.83-59.44 m: Crackle fractures and fractured surfaces are coated in hematite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						60.03-69.01 m: Medium grey strongly fluid collapse brecciated limestone with overprinting crackle texture. Trace hematite staining on some of the fractures.
																						69.01-74.07 m: Medium grey gritty looking limestone with slight red/purple hematite stain. A few rubbly sections occur.
						VN	45															70.13-70.22 m: Ca vein at 45 deg to CA with interlayers of orange/red clay.
																						71.85-71.97 m: Extremely rubbly zone with dark purple coatings on fractures.
																						74.07 m: E.O.H. - the hole was ended at the target depth.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-58

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
2.25	3.96	1.71	1.71	100	0.94	55	MS	SW	
3.96	5.49	1.53	1.43	93	1.08	71	MS	SW	
5.49	7.01	1.52	1.33	88	1.19	78	MS	SW	
7.01	8.53	1.52	1.52	100	1.30	86	MS	MW	
8.53	10.06	1.53	1.30	85	0.85	56	MS	SW	
10.06	11.58	1.52	1.00	66	0.71	47	MS	SW	
11.58	13.11	1.53	0.23	15	0.00	0	MS	MW	
13.11	14.63	1.52	0.08	5	0.00	0	MS	MW	
14.63	16.15	1.52	0.25	16	0.00	0	MS	EW	
16.15	17.68	1.53	1.24	81	1.09	71	MS	MW	
17.68	19.20	1.52	1.52	100	1.29	85	MS	SW	
19.20	20.73	1.53	1.48	97	0.82	54	MS	SW	
20.73	22.25	1.52	1.31	86	0.85	56	MS	SW	
22.25	23.77	1.52	1.38	91	0.79	52	MS	SW	
23.77	25.30	1.53	1.39	91	0.67	44	MS	SW	
25.30	26.82	1.52	1.43	94	0.88	58	MS	SW	
26.82	28.35	1.53	1.52	99	1.52	99	MS	SW	
28.35	29.87	1.52	1.42	93	0.76	50	MS	FR	
29.87	31.39	1.52	1.52	100	1.50	99	MS	FR	
31.39	32.92	1.53	1.34	88	1.07	70	MS	FR	
32.92	34.44	1.52	1.45	95	1.11	73	MS	FR	
34.44	35.97	1.53	1.40	92	1.10	72	MS	FR	
35.97	37.49	1.52	1.52	100	1.15	76	MS	FR	
37.49	39.01	1.52	1.49	98	1.43	94	MS	FR	
39.01	40.23	1.22	1.22	100	1.22	100	MS	FR	
40.23	42.06	1.83	1.53	84	0.95	52	MS	FR	
42.06	43.59	1.53	1.41	92	0.69	45	MS	FR	
43.59	45.11	1.52	1.52	100	1.52	100	MS	FR	
45.11	46.63	1.52	1.50	99	1.25	82	MS	FR	
46.63	48.16	1.53	1.38	90	0.93	61	MS	FR	
48.16	49.68	1.52	1.34	88	1.15	76	MS	FR	
49.68	51.21	1.53	1.33	87	0.38	25	MS	SW	
51.21	52.73	1.52	1.52	100	0.38	25	MS	FR	
52.73	54.25	1.52	1.47	97	0.90	59	MS	FR	
54.25	55.78	1.53	1.38	90	0.73	48	MS	SW	
55.78	57.30	1.52	1.50	99	1.12	74	MS	SW	
57.30	58.83	1.53	1.53	100	1.32	86	MS	SW	
58.83	60.35	1.52	1.52	100	1.48	97	MS	SW	
60.35	61.87	1.52	1.52	100	1.47	97	MS	FR	
61.87	63.40	1.53	1.52	99	1.44	94	MS	FR	
63.40	64.92	1.52	1.52	100	1.52	100	MS	FR	
64.92	66.45	1.53	1.53	100	1.50	98	MS	FR	
66.45	67.97	1.52	1.40	92	1.40	92	MS	SW	
67.97	69.49	1.52	1.52	100	1.52	100	MS	SW	
69.49	71.02	1.53	1.44	94	1.27	83	MS	SW	
71.02	72.54	1.52	1.52	100	0.97	64	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.47	96	1.44	94	MS	FR	
	74.07	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-58

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
8.53	11.58	3.05	2.34	77	H885153	9.0	53	0.02	0.11	49	2.01	
11.58	13.11	1.53	0.22	14	H885154	1.0	53	0.02	0.15	70	4.74	
14.63	16.15	1.52	0.23	15	H885155	1.0	53	0.44	1.58	1525	416.00	
16.15	17.68	1.53	1.24	81	H885156	5.0	53	0.04	0.43	288	649.00	
17.68	20.50	2.82	2.70	96	H885157	11.0	54	<0.01	0.51	94	165.50	
20.50	23.77	3.27	2.90	89	H885159	15.0	54	0.01	0.31	96	282.00	
23.77	25.53	1.76	1.75	99	H885160	7.5	54	0.01	0.50	32	10.90	
25.53	27.90	2.37	2.29	97	H885161	11.0	54	<0.01	0.03	<5	0.53	
27.90	31.03	3.13	3.02	96	H885162	12.5	54	0.04	0.02	7	0.50	
31.03	32.92	1.89	1.70	90	H885163	7.5	54	<0.01	0.02	<5	0.21	
32.92	34.78	1.86	1.80	97	H885164	7.5	54	0.01	0.01	8	0.29	
34.78	35.97	1.19	1.04	87	H885165	4.5	54	0.37	0.05	3620	5.53	
35.97	38.16	2.19	2.19	100	H885167	9.5	54	0.02	0.14	191	1.59	
35.97	38.16	2.19	2.19	100	H885168	5.0	54	0.02	0.12	262	1.48	
38.16	41.05	2.89	2.89	100	H885169	12.0	54	0.02	0.02	6	0.28	
66.45	69.01	2.56	2.40	94	H885170	10.5	54	0.01	0.07	101	1.56	
69.01	71.02	2.01	1.89	94	H885171	8.0	54	0.04	0.39	245	5.05	
71.02	74.07	3.05	2.96	97	H885173	12.0	54	0.03	0.06	170	6.55	
-	-	-			H885158	4.0	54	<0.01	0.01	<5	0.33	Blank
-	-	-			H885166	0.3	54	0.50	0.85	4800	104.00	Standard R-1
-	-	-			H885172	0.3	54	5.49	0.26	28000	449.00	Standard R-3

DENSITY LOG

HOLE: Rau-09-58

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
16.28	DOL	ALT		14.4	6.1	1089.3	539.8	2.57	1.98
17.80	DOL	ALT		14.9	6.1	1230.4	588.6	2.81	1.92
27.97	LST	FOS		14.8	6.1	952.5	507.4	2.19	2.14
36.18	DOL			14.9	6.1	1167.0	734.1	2.66	2.70
40.27	LST			15.6	6.1	1070.0	631.5	2.33	2.44
61.57	LST			15.3	6.1	1278.0	640.7	2.84	2.01

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-58

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
2.25	LST		0.38	
3.00	LST		0.06	
4.00	LST		0.31	
5.00	LST		0.06	
6.00	LST		0.06	
7.00	LST		0.13	
8.00	LST		0.21	
9.00	LST		0.03	
10.00	LST		0.25	
11.00	LST		0.11	
12.00	LST		0.10	
13.00	LST		0.10	
14.00	DOL	ALT	0.20	
15.00	DOL	ALT	N/A	No recovery
16.00	DOL	ALT	0.53	
17.00	DOL	ALT	0.31	
18.00	DOL	ALT	0.35	
19.00	DOL	ALT	0.25	
20.00	DOL	ALT	0.25	
21.00	DOL	ALT	0.31	
22.00	DOL	ALT	0.26	
23.00	DOL	ALT	0.11	
24.00	DOL	ALT	0.16	
25.00	DOL	ALT	0.67	
26.00	MBL		0.05	
27.00	MBL		0.05	
28.00	LST	FOS	0.18	
29.00	LST	FOS	0.20	
30.00	LST	FOS	0.70	
31.00	LST	FOS	0.28	
32.00	MBL		0.05	
33.00	MBL		0.25	
34.00	MBL		0.05	
35.00	DOL		0.43	
36.00	DOL		0.60	
37.00	DOL		0.40	
38.00	DOL		0.11	
39.00	LST		0.18	
40.00	LST		0.13	
41.00	LST		0.16	
42.00	LST		0.11	
43.00	LST		0.26	
44.00	LST		0.08	
45.00	LST		0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
46.00	LST		0.18	
47.00	LST		0.06	
48.00	LST		0.10	
49.00	LST		0.10	
50.00	LST		0.03	
51.00	LST		0.03	
52.00	LST		0.03	
53.00	LST		0.05	
54.00	LST		0.03	
55.00	LST		0.10	
56.00	LST		0.10	
57.00	LST		0.06	
58.00	LST		0.10	
59.00	LST		0.06	
60.00	LST		0.06	
61.00	LST		0.03	
62.00	LST		0.05	
63.00	LST		0.03	
64.00	LST		0.08	
65.00	LST		0.08	
66.00	LST		0.20	
67.00	LST		0.10	
68.00	LST		0.23	
69.00	LST		0.06	
70.00	LST		0.36	
71.00	LST		0.31	
72.00	LST		0.15	
73.00	LST		0.08	
74.00	LST		0.13	

BOX LOG

HOLE: Rau-09-58

BOX	FROM (m)	TO (m)
1	2.25	6.17
2	6.07	10.06
3	10.06	18.55
4	18.55	22.91
5	22.91	27.15
6	27.15	31.39
7	31.39	35.75
8	35.75	39.98
9	39.98	44.14
10	44.14	48.42
11	48.42	52.73
12	52.73	56.61
13	56.61	60.81
14	60.81	64.80
15	64.80	68.60
16	68.60	72.54
17	72.54	74.07
	74.07	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 09+935 NW

HOLE: Rau-09-59
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528553	7119012	1267	119.79

Contractor: Superior
Drill: Oxide 2

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 6.10 (m) out

Drilling dates: Sept 4-6, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.02	3.02	OVB	
3.02	4.80	1.78	LST	
4.80	7.31	2.51	LST	
7.31	13.11	5.80	VOL	Altered
13.11	21.65	8.54	OX	Rubbly
21.65	57.3	35.65	DOL	Mineralized
57.3	60.4	3.10	VOL	Altered
60.4	79.86	19.46	OX	
79.86	80.95	1.09	DOL	Mineralized
80.95	87.44	6.49	DOL	Mineralized
87.44	88.95	1.51	VOL	
88.95	111.21	22.26	DOL	Mineralized
111.21	119.79	8.58	MBL	

SAMPLES

Numbers: H885196-H885222, H885241-H885284
Batch 55, 56, 57
Total: 71
Date sent:
Certificate: VA09100663, VA09100667, VA09104222

COMMENTS

This hole contained interesting mineralizations with in the very coarse grained dolomite including very coarse grained euhedral pyrrhotite crystals (up to 2 cm in diameter).

GEOLOGY LOG

HOLE: Rau-09-59

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0	3.02	3.02	OVB																			
3.02	4.8	1.78	LST												t							Mixture of 50% fragments of limestone and 50% dark red gougey clayey regions. Limestone is bleached, crystalline with trace stringers and blebs of Py. Gouge ranges from brownish-red to dark red, soft to competent. (COLOUR: 10R 4/6 - dark yellowish brown)
4.8	7.31	2.51	LST		FO	FO	70								t							Medium to dark grey, foliated limestone with some rusty red soft layers weathering out. Trace pyrite disseminated throughout. Foliation occurs at 70 deg to CA. The foliation sometimes deforms around augen like clasts in the limestone.
7.31	13.11	5.8	VOL	ALT		FO	55															Strongly altered, weak, soft, fissile to crumbly, altered volcanic. Light brown (COLOUR 7.5YR 5/4 - brown) to more commonly pale yellow (COLOUR: 5Y 8/2 - pinkish white).
																						9.70-9.83 m: Competent pale yellow section with some quite bright green, slightly flaky layers following the foliation at 55 deg to CA (possibly fuchsite?)
																						11.58-12.95 m: very poor recovery, only some small limestone pebbles.
																						12.95-13.11 m: yellow-brown volcaniclastic, less obviously foliated.
13.11	21.65	8.54	OX	RBL											f							Predominantly crumbly, reddish brown (COLOUR: 5YR 5/4 - reddish brown) oxide fragments, variably limonitic. Also 40% interbeds of relatively unaltered limestone, doesn't fizz well but looks grey and is well-foliated. Limestone intervals occur from 16.42-16.79 and 17.68-18.05 m. They have fair concentrations of disseminated Py. Also a yellowish stain occurs on fractures.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						13.11-15.95 m: Darker red limonitic oxide fragments, gritty and often coated with a lighter yellowish brown clay.
						FO	50															15.95-19.20 m: Slightly lighter coloured and more competent, with lots of muscovite/sericite flakes. On margins of limestone there is an increased concentration of coarse grained disseminated and blebby to banded pyrite.
															f							19.20-21.65 m: Very soft, crumby brown oxide, quite clay rich containing notable sulphides. Py fragments are present throughout, often as Py sand clusters. One competent Py +/- scorodite chunk 10 cm long occurs within. (COLOUR: 7.5YR 5/8 - strong brown)
21.65	57.3	35.65	DOL	MX		FO	45								15	10	f					Well-mineralized white to grey, very to extremely coarse-grained dolomite with Py, As, Po throughout. Pyrite is the most common sulphide, present pervasively as strong disseminations to bands to semi-massive med-grained patchwork. Arsenopyrite occurs as quite coarse crystals associated with the pyrite, and is concentrated in semi-massive sections. Pyrrhotite is <5%, except for one interval (described below), where it is almost massive. Outside this interval it occurs as sporadic blotches, stringers, and rare disseminations.
																						A weak foliaform fabric is observed throughout, especially with pyrite banding. Some bright reds/yellows and other As/Po alteration products. Especially concentrated in a few more rusty, weathered regions.
															40	5						21.65-23.30 m: Fairly altered, more crumbly, and colourful (brown/white/red/yellow). Mineralization is mainly finer grained heavily disseminated to semi-massive pyrite with some rusty brown alteration around the grains. Some lesser Arsenopyrite +- scorodite. Dolomite is white-cream-yellow.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						23.30-23.40 m: Two rough irregular fractures coated with dark blood-red amorphous film of some alteration/weathering product. A light brownish-orange also coating. Nearby some very coarse >2 cm arsenopyrite crystals occur.
			LST			FO	35								t		t					28.49-29.00 m: Only weakly mineralized zone of grey limestone and what seems like siltstone? Fine-grained, soft grey, non-calcareous.
															w		85					29.00-31.18 m: Semi-massive to massive fine to medium-grained Po with minor coarse Py grains. Significant talc present between Po crystals, along with bright yellow alteration on rough fracture surfaces.
															m		10					31.18-32.89 m: Similar zone but less well-mineralized. Increased Py, and now coarse-grained dolomite defines the mineralization pattern.
																						In between dolomite crystals, large (up to 2 cm) perfect Po crystals have occasionally formed with shiny mirrored faces. After ~32.50 m, rock changes back to silty limestone with minor Po bands.
															20	20						36.88-38.14 m: Especially well mineralized zone with very coarse Asp crystals often up to 2 cm pyramids. Mineralization is coarsely disseminated throughout.
															15	5	5					38.14-40.54 m: More altered, sometimes crumbly dolomite with dark red on fractures. The dolomite is stained yellow, and increased (fair) Po, occurring as stringers and disseminations.
															10	5	f					After 40.54 m: slight decrease in amount of coarse-grained Asp, though it continues until the end of interval. The dolomite gradually becomes slightly more colourful (yellow/pink tinted) and vuggy.
						BD	60															50 m: Banding of the sulphides occurs at 60 deg to CA.
						BD	45															After 51.75 m: start seeing bands of fine grey possibly volcaniclastic, associated with strongly mineralized semi-massive Py/Asp.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						These mineralized volcaniclastic (?) layers occur from 51.75-52.00 m, 54.00-54.20 m and 54.20-55 m which is less well mineralized.
																						55-57.30 m: The dolomite is quite coarse-grained, more pink coloured and vuggy. Py often has orangey-brown alteration around it.
57.3	60.4	3.1	VOL	ALT		FO	40															Tan, altered volcaniclastic, somewhat fissile and well-foliated, with rusty fracture surfaces. Weathered out pyrite cubes occur along with foliaform pyrite patches. Trace fuchsite. Foliation occurs at 40 deg to CA.
60.4	79.86	19.46	OX																			Oxide, varies in colour slightly from lighter browns though to quite dark, limonitic browns. Generally moderately competent core, quite porous, sometimes crumbled away. Usually darker brown inside with light brown clay exterior. First half of interval is more yellow (COLOUR: 10YR 5/6 - yellowish brown), second half is more red(COLOUR: 2.5YR 4/6 - red) with dark brown/black fractured limonite stained surfaces.
																						60.40-61.87 m: lighter brown-yellow oxide, very poor recovery.
																						61.87-62.90 m: Dark red, soft clayey oxide.
																						62.90-63.40 m: Coarse dolomite chunks, with minor pyrite stringers and some red clay oxide.
																						63.40-64.35 m: Red-brown oxide with minor yellow patches.
						FO	50								50	15						64.35-64.95 m: Semi-competent, semi massive sulphides (Py), presumably after dolomite. Very rotted and rusty/oxidized, but visible sulphide banding at 50 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						64.95-79.86 m: Quite homogenous, semi-competent oxide, gradually changing colour from lighter yellow-brown (COLOUR: 10YR 5/6 - yellowish brown) to a slightly darker red-brown (COLOUR: 2.5YR 4/6 - red). Fracture surfaces seems very limonitic. Also occasional bright red-brown to red (Asp alteration ?) on surfaces.
						FO	55															66.50 m: Clear foliation occurs at 55 deg to CA.
																						71.00-78.50 m: Clear breccia texture in the oxide occurs.
						FO	35															78.50 -80.00 m: Clear foliation of 35 deg to CA occurs throughout.
79.86	80.95	1.09	DOL	ALT		FO	50					s										Transition zone of brownish crumbly oxide and variably altered white to pink stained dolomite.
80.95	87.44	6.49	DOL		BX										ms							Dolomite with some grey, brecciated limestone. Very chaotic Ca veinlets occur. Fair (5-7%) fine grained bands, as well as heavily disseminated stringers and patches of pyrite occur within.
															80							84.89-86.26 m: Band of semi-massive to massive, fine-grained Py, replacing dolomite, or brecciated dolomitized limestone.
87.44	88.95	1.51	VOL			FO	55								w							Light grey, foliated volcaniclastic layer with stringers of pyrite. Laminations of sericite occur at 55 deg to CA (defining the foliation). The first 20 cm of interval is blotchy, semi-massive Py.
88.95	111.21	22.26	DOL		BX																	Dolomite and dolomitized limestone, fairly coarse-grained and brecciated. Weak banding occurs at 65 deg to CA. Some orange staining occurs on fractures.
						FO	65								10	w						89.95-92.35 m: Well mineralized coarse dolomite with bands of Py and minor medium grained Asp.
															90	t						92.35-92.95 m: Fine-grained semi-massive to massive Py. A few small blebs Asp.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	50															After 92.95 m: Py/Asp mineralization gradually drop off, and by ~97 m, the last of the Asp has disappeared. Py at this point is down to fair, and after 99 m, becomes trace. Two dolomite phases may occur as it appears that a coarser, pinker dolomite cuts through less altered greyer, finer dolomite/dolomitized limestone.
																						After ~99 m: Dolomite is very brecciated, with no obvious banding or foliations, and increased red-pink staining (rhodochrosite?) Sometimes creeps out from fractures.
																						104.70-105.50 m: Medium to dark limestone clasts dominate, and pyrite higher in concentration and heavily disseminated. By 105 m +/-10 cm of semi-massive pyrite.
															f							After 107.59 m: grey limestone breccia pieces disappear, more pink/tan/white coarse dolomite texture. Locally vuggy and increased disseminated Py and STR.
																						110.64-111.21m: Very poor recovery, rubbly fault(?) zone contact between pinkish brown, fair Py mineralized dolomite, and white marble.
111.21	119.79	8.58	MBL			BD	45															Strikingly white, quite pure unaltered marble. First metre or so has 30% grey patches/stringers but after that it is >95% pure. Weak stringers of possible clay or sericite alteration, aligned at 45-50 deg occur within.
																						119.79 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-59

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.02	3.96	0.94	0.94	100	0.00	0	MS	MW	
3.96	5.49	1.53	1.25	82	0.73	48	VS	MW	
5.49	7.01	1.52	1.20	79	0.31	20	S	SW	
7.01	8.53	1.52	0.79	52	0.00	0	W	HW	
8.53	10.06	1.53	0.93	61	0.00	0	VW	EW	
10.06	11.58	1.52	0.81	53	0.00	0	VW	EW	
11.58	13.11	1.53	0.18	12	0.00	0	VW	EW	
13.11	14.63	1.52	0.49	32	0.00	0	VW	EW	
14.63	16.15	1.52	0.43	28	0.00	0	EW	EW	
16.15	17.68	1.53	1.10	72	0.59	39	W	HW	
17.68	19.20	1.52	1.06	70	0.83	55	W	HW	
19.20	20.73	1.53	0.47	31	0.00	0	W	HW	
20.73	22.25	1.52	0.77	51	0.59	39	MS	MW	
22.25	23.77	1.52	1.52	100	0.95	63	MS	SW	
23.77	25.30	1.53	1.40	92	0.92	60	MS	SW	
25.30	26.82	1.52	1.51	99	1.40	92	MS	FR	
26.82	28.35	1.53	1.23	80	1.16	76	MS	FR	
28.35	29.87	1.52	1.20	79	0.38	25	S	FR	
29.87	31.39	1.52	1.52	100	0.83	55	W	FR	massive pyrrhotite
31.39	32.92	1.53	1.38	90	0.55	36	MS	FR	
32.92	34.44	1.52	1.52	100	1.21	80	MS	FR	
34.44	35.97	1.53	1.53	100	1.42	93	S	FR	
35.97	37.49	1.52	1.52	100	1.45	95	MS	FR	
37.49	39.01	1.52	1.52	100	1.27	84	MS	SW	
39.01	40.54	1.53	0.68	44	0.44	29	MS	MW	
40.54	42.06	1.52	1.38	91	1.15	76	MS	FR	
42.06	43.59	1.53	1.53	100	1.31	86	S	FR	
43.59	45.11	1.52	1.52	100	1.47	97	MS	FR	
45.11	46.63	1.52	1.48	97	1.29	85	MS	FR	
46.63	48.16	1.53	1.53	100	1.15	75	MS	FR	
48.16	49.68	1.52	1.43	94	1.16	76	MS	FR	
49.68	51.21	1.53	1.46	95	1.40	92	S	FR	
51.21	52.73	1.52	1.52	100	0.82	54	S	FR	
52.73	54.25	1.52	1.47	97	1.01	66	S	FR	
54.25	55.78	1.53	0.94	61	0.00	0	VS	SW	
55.78	57.30	1.52	1.37	90	0.72	47	S	SW	
57.30	58.83	1.53	0.34	22	0.11	7	S	SW	
58.83	60.35	1.52	0.33	22	0.00	0	S	SW	
60.35	61.87	1.52	0.28	18	0.00	0	EW	EW	
61.87	63.40	1.53	0.97	63	0.15	10	EW	EW	
63.40	64.92	1.52	1.07	70	0.47	31	W	EW	
64.92	66.45	1.53	0.97	63	0.00	0	VW	EW	
66.45	67.97	1.52	1.10	72	0.00	0	VW	EW	
67.97	69.49	1.52	1.33	88	0.40	26	W	EW	
69.49	71.02	1.53	1.53	100	0.69	45	W	EW	
71.02	72.54	1.52	1.43	94	0.42	28	W	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.25	82	0.22	14	W	EW	
74.07	75.59	1.52	1.45	95	0.11	7	W	EW	
75.59	77.11	1.52	1.38	91	0.57	38	W	EW	
77.11	78.64	1.53	1.52	99	1.50	98	W	EW	
78.64	80.16	1.52	1.01	66	0.60	39	W	EW	
80.16	81.69	1.53	1.33	87	0.79	52	VS	HW	
81.69	83.21	1.52	1.37	90	1.03	68	MS	SW	
83.21	84.73	1.52	1.52	100	1.13	74	MS	SW	
84.73	86.26	1.53	1.43	93	1.43	93	S	SW	
86.26	87.78	1.52	1.50	99	1.05	69	MS	SW	
87.78	89.31	1.53	1.49	97	1.18	77	S	SW	
89.31	90.83	1.52	1.52	100	1.48	97	MS	SW	
90.83	92.35	1.52	1.38	91	0.87	57	MS	SW	
92.35	93.88	1.53	1.53	100	1.27	83	MS	SW	
93.88	95.40	1.52	1.45	95	1.36	89	MS	SW	
95.40	96.93	1.53	1.52	99	1.23	80	MS	SW	
96.93	98.45	1.52	1.45	95	1.45	95	MS	SW	
98.45	99.97	1.52	1.52	100	1.08	71	MS	SW	
99.97	101.50	1.53	1.53	100	1.47	96	S	SW	
101.50	103.02	1.52	1.52	100	1.31	86	MS	SW	
103.02	104.55	1.53	1.46	95	1.40	92	MS	SW	
104.55	106.07	1.52	1.52	100	1.52	100	S	SW	
106.07	107.59	1.52	1.38	91	1.30	86	MS	SW	
107.59	108.51	0.92	0.92	100	0.92	100	MS	SW	
108.51	109.12	0.61	0.61	100	0.50	82	MS	SW	
109.12	110.64	1.52	1.47	97	0.95	63	MS	SW	
110.64	112.17	1.53	1.06	69	0.84	55	MS	FR	
112.17	113.69	1.52	1.43	94	1.43	94	MS	FR	
113.69	115.21	1.52	1.48	97	1.39	91	MS	FR	
115.21	116.74	1.53	1.49	97	1.49	97	MS	FR	
116.74	118.26	1.52	1.52	100	1.50	99	MS	FR	
118.26	119.79	1.53	1.53	100	1.53	100	MS	FR	
	119.79	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-59

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
3.02	4.80	1.78	1.70	96	H885196	3.5	55	0.85	7.31	9050	53.40	
4.80	7.31	2.51	2.40	96	H885197	9.0	55	0.04	0.34	305	4.40	
7.31	8.53	1.22	0.66	54	H885198	2.0	55	0.02	0.21	1450	5.74	
8.53	10.06	1.53	0.93	61	H885199	3.5	55	0.04	0.17	283	27.20	
10.06	11.58	1.52	0.81	53	H885200	3.0	55	0.01	0.10	323	8.83	
11.58	13.11	1.53	0.18	12	H885201	1.0	55	0.02	0.68	1330	44.70	
13.11	14.63	1.52	0.49	32	H885203	2.0	55	0.18	0.42	2730	164.50	
14.63	16.15	1.52	0.43	28	H885204	1.0	55	0.28	1.05	4960	977.00	
16.15	17.68	1.53	1.10	72	H885205	3.5	55	0.20	0.15	9100	161.50	
17.68	19.20	1.52	1.06	70	H885206	3.0	55	0.27	0.15	7280	126.00	
19.20	20.73	1.53	1.47	96	H885207	1.0	55	1.49	0.50	52300	744.00	
20.73	21.65	0.92	0.31	34	H885208	0.5	55	1.15	0.69	33000	455.00	
21.65	23.00	1.35	1.35	100	H885210	6.0	55	1.78	0.15	59900	192.00	
23.00	25.30	2.30	2.12	92	H885211	9.5	55	3.90	0.09	52600	237.00	
25.30	28.49	3.19	2.79	87	H885212	14.5	55	2.66	0.13	47000	134.50	
28.49	29.00	0.51	0.51	100	H885213	2.0	55	0.26	0.03	13300	71.50	
29.00	31.18	2.18	1.91	88	H885214	9.5	55	0.08	0.42	376	100.00	
31.18	32.89	1.71	1.33	78	H885215	6.5	55	0.13	0.53	391	24.50	
32.89	34.90	2.01	2.01	100	H885216	11.0	55	5.35	0.19	41400	209.00	
34.90	36.88	1.98	1.98	100	H885217	10.5	55	6.82	0.16	20100	239.00	
36.88	38.14	1.26	1.26	100	H885218	7.5	55	11.90	0.19	13900	176.50	
38.14	40.54	2.40	1.55	65	H885220	8.0	55	8.76	0.25	94500	254.00	
40.54	43.59	3.05	2.90	95	H885221	12.5	55	0.29	0.23	7730	306.00	
43.59	46.63	3.04	3.00	99	H885241	4.0	56	0.92	0.68	>10000	72.00	
46.63	49.68	3.05	2.90	95	H885242	7.0	56	0.67	0.15	9590	46.40	
49.68	52.73	3.05	2.98	98	H885243	13.0	56	0.22	0.76	7270	133.50	
52.73	55.78	3.05	2.43	80	H885245	10.5	56	0.91	0.12	7120	44.30	
55.78	57.30	1.52	1.37	90	H885246	5.0	56	0.75	0.19	9480	121.50	
57.30	58.83	1.53	0.34	22	H885247	1.0	56	0.01	<0.01	1220	3.35	
58.83	60.40	1.57	0.38	24	H885248	1.0	56	0.03	<0.01	686	4.09	
60.40	61.87	1.47	0.23	16	H885250	0.5	56	4.49	0.38	>10000	283.00	
61.87	63.40	1.53	0.97	63	H885251	3.0	56	0.69	0.10	>10000	231.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
63.40	64.92	1.52	1.07	70	H885252	4.0	56	9.45	0.18	>10000	261.00	
64.92	66.45	1.53	0.97	63	H885253	3.0	56	4.42	0.14	>10000	515.00	
66.45	67.97	1.52	1.10	72	H885254	3.0	56	12.60	1.01	>10000	995.00	
67.97	69.49	1.52	1.33	88	H885255	4.5	56	10.05	0.71	>10000	855.00	
69.49	71.02	1.53	1.53	100	H885256	4.5	56	11.05	0.88	>10000	531.00	
71.02	72.54	1.52	1.43	94	H885257	4.5	56	5.98	0.55	>10000	191.50	
72.54	74.07	1.53	1.25	82	H885259	5.0	56	6.21	0.96	>10000	354.00	
74.07	75.59	1.52	1.45	95	H885260	4.5	56	2.71	0.40	>10000	565.00	
75.59	77.11	1.52	1.38	91	H885261	4.0	56	0.83	0.33	>10000	303.00	
77.11	78.64	1.53	1.52	99	H885262	6.0	56	0.61	0.47	>10000	216.00	
78.64	79.86	1.22	0.85	70	H885263	3.0	56	0.62	4.12	>10000	95.90	
79.86	80.95	1.09	0.85	78	H885265	2.0	57	0.54	1.30	6270	121.50	
80.95	83.21	2.26	2.12	94	H885266	8.0	57	0.30	0.38	2440	288.00	
83.21	84.89	1.68	1.63	97	H885267	7.0	57	0.23	0.14	2570	112.00	
84.89	86.26	1.37	1.22	89	H885268	7.0	57	0.58	0.23	2920	370.00	
86.26	87.44	1.18	1.02	86	H885269	4.5	57	0.05	0.04	630	17.90	
87.44	88.95	1.51	1.43	95	H885270	6.0	57	0.20	0.10	674	6.88	
88.95	90.83	1.88	1.88	100	H885272	9.5	57	1.21	0.82	8280	136.50	
90.83	92.35	1.52	1.38	91	H885273	6.5	57	0.45	2.05	3160	108.50	
92.35	92.95	0.60	0.60	100	H885274	4.5	57	5.23	10.75	16000	566.00	
92.95	95.40	2.45	2.43	99	H885275	10.5	57	0.27	1.29	8760	68.70	
95.40	98.45	3.05	2.97	97	H885277	13.0	57	0.10	0.28	1080	30.30	
98.45	101.50	3.05	3.05	100	H885278	13.0	57	0.02	0.07	303	4.71	
101.50	104.55	3.05	2.98	98	H885279	12.5	57	0.02	0.64	655	4.44	
104.55	107.59	3.04	2.98	98	H885281	12.5	57	0.05	2.65	1000	17.90	
107.59	110.64	3.05	3.00	98	H885282	13.5	57	0.54	2.36	1480	36.40	
110.64	111.21	0.57	0.09	16	H885283	0.5	57	3.63	7.36	7840	461.00	
111.21	113.15	1.94	1.88	97	H885284	7.0	57	<0.01	0.02	10	0.63	
-	-	-			H885202	0.3	55	0.55	0.90	5890	99.80	Standard R-1
-	-	-			H885209	4.0	55	0.01	0.06	88	0.75	Blank
-	-	-			H885219	4.0	55	0.08	0.05	936	0.97	Blank
-	-	-			H885222	0.3	55	5.77	0.20	30900	497.00	Standard R-3

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
49.68	52.73	3.05	2.98	98	H885244	6.5	56	0.23	0.65	5820	142.00	Duplicate
-	-	-			H885249	0.3	56	1.56	1.89	>10000	357.00	Standard R-2
-	-	-			H885258	0.3	56	0.50	0.93	5260	109.00	Standard R-1
-	-	-			H885264	4.0	56	0.01	0.01	238	1.00	Blank
-	-	-			H885271	0.3	57	5.48	0.29	47600	472.00	Standard R-3
92.95	95.40	2.45	2.43	99	H885276	5.0	57	0.30	1.87	7230	85.60	Duplicate
-	-	-			H885280	4.0	57	<0.01	0.01	11	0.14	Blank

BOX DENSITY LOG

HOLE: Rau-09-59

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
6	28.49	32.79	6.12	PO+LST	MX	3.63	80.0	3.40	Semi-massive to massive Po w/ LST
14	67.23	71.61	6.12	OX		4.02	48.0	1.84	
15	71.61	75.15	6.12	OX		3.72	49.0	2.03	
16	75.15	79.05	6.12	OX		3.81	53.0	2.15	

DENSITY LOG

HOLE: Rau-09-59

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
29.95	DOL	MZD		14.6	6.1	1089.0	689.4	2.54	2.73
37.71	DOL	MZD		14.8	6.1	1043.5	545.5	2.40	2.10
68.47	OX			13.7	6.1	305.7	80.6	0.76	1.36
78.83	DOL	OX		13.4	6.1	395.6	148.1	1.00	1.60
90.21	DOL	MZD		14.7	6.1	804.0	398.6	1.86	1.98
116.20	MBL			14.3	6.1	549.2	128.4	1.31	1.31

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-59

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
3.02	LST		0.03	
4.00	LST		0.00	
5.00	LST		0.50	
6.00	LST		0.16	
7.00	LST		0.08	
8.00	VOL	ALT	0.15	
9.00	VOL	ALT	0.08	
10.00	VOL	ALT	0.18	
11.00	VOL	ALT	0.18	
12.00	VOL	ALT	0.35	
13.00	VOL	ALT	0.15	
14.00	OX	RBL	0.35	
15.00	OX	RBL	0.65	
16.00	OX	RBL	0.48	
17.00	OX	RBL	0.18	
18.00	OX	RBL	0.78	
19.00	OX	RBL	0.57	
20.00	OX	RBL	0.70	
21.00	OX	RBL	0.18	
22.00	DOL	MX	0.16	
23.00	DOL	MX	0.36	
24.00	DOL	MX	0.38	
25.00	DOL	MX	0.73	
26.00	DOL	MX	1.15	
27.00	DOL	MX	1.15	
28.00	DOL	MX	1.15	
29.00	DOL	MX	38.20	Po
30.00	DOL	MX	30.90	Po
31.00	DOL	MX	9.22	
32.00	DOL	MX	18.50	
33.00	DOL	MX	0.53	
34.00	DOL	MX	0.23	
35.00	DOL	MX	1.52	
36.00	DOL	MX	2.25	
37.00	DOL	MX	2.08	
38.00	DOL	MX	1.79	
39.00	DOL	MX	0.70	
40.00	DOL	MX	6.77	
41.00	DOL	MX	5.67	
42.00	DOL	MX	6.04	
43.00	DOL	MX	5.40	
44.00	DOL	MX	1.62	
45.00	DOL	MX	1.14	
46.00	DOL	MX	1.09	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	DOL	MX	1.66	
48.00	DOL	MX	5.06	
49.00	DOL	MX	0.31	
50.00	DOL	MX	0.26	
51.00	DOL	MX	0.23	
52.00	DOL	MX	0.33	
53.00	DOL	MX	0.63	
54.00	DOL	MX	1.02	
55.00	DOL	MX	0.43	
56.00	DOL	MX	0.73	
57.00	DOL	MX	0.30	
58.00	VOL	ALT	0.16	
59.00	VOL	ALT	0.03	
60.00	VOL	ALT	0.15	
61.00	OX		0.31	
62.00	OX		0.47	
63.00	OX		0.45	
64.00	OX		0.60	
65.00	OX		0.84	
66.00	OX		0.45	
67.00	OX		0.53	
68.00	OX		0.30	
69.00	OX		0.52	
70.00	OX		0.60	
71.00	OX		0.68	
72.00	OX		0.73	
73.00	OX		0.70	
74.00	OX		0.57	
75.00	OX		0.43	
76.00	OX		0.73	
77.00	OX		0.60	
78.00	OX		0.84	
79.00	OX		0.58	
80.00	DOL	MX	0.38	
81.00	DOL	MX	0.40	
82.00	DOL	MX	0.16	
83.00	DOL	MX	0.15	
84.00	DOL	MX	0.13	
85.00	DOL	MX	0.52	
86.00	DOL	MX	0.25	
87.00	DOL	MX	0.15	
88.00	VOL		0.28	
89.00	DOL	MX	0.33	
90.00	DOL	MX	0.28	
91.00	DOL	MX	0.47	
92.00	DOL	MX	0.17	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	DOL	MX	0.28	
94.00	DOL	MX	0.67	
95.00	DOL	MX	0.26	
96.00	DOL	MX	0.50	
97.00	DOL	MX	0.15	
98.00	DOL	MX	0.28	
99.00	DOL	MX	0.08	
100.00	DOL	MX	0.16	
101.00	DOL	MX	0.40	
102.00	DOL	MX	0.28	
103.00	DOL	MX	0.21	
104.00	DOL	MX	0.31	
105.00	DOL	MX	0.31	
106.00	DOL	MX	0.16	
107.00	DOL	MX	0.26	
108.00	DOL	MX	0.30	
109.00	DOL	MX	0.31	
110.00	DOL	MX	0.43	
111.00	DOL	MX	0.05	
112.00	MBL		0.03	
113.00	MBL		0.31	
114.00	MBL		0.00	
115.00	MBL		0.05	
116.00	MBL		0.03	
117.00	MBL		0.01	
118.00	MBL		0.00	
119.00	MBL		0.03	

BOX LOG

HOLE: Rau-09-59

BOX	FROM (m)	TO (m)
1.00	3.02	6.85
2.00	6.85	11.58
3.00	11.58	19.20
4.00	19.20	24.25
5.00	24.25	28.49
6.00	28.49	32.79
7.00	32.79	36.66
8.00	36.66	41.61
9.00	41.61	45.76
10.00	45.76	49.94
11.00	49.94	54.18
12.00	54.18	61.87
13.00	61.87	67.23
14.00	67.23	71.61
15.00	71.61	75.15
16.00	75.15	79.05
17.00	79.05	83.21
18.00	83.21	87.12
19.00	87.12	90.83
20.00	90.83	95.04
21.00	95.04	98.87
22.00	98.87	102.80
23.00	102.80	106.93
24.00	106.93	108.51
25.00	108.51	113.15
26.00	113.15	117.50
27.00	117.50	119.79
	119.79	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 09+970 NW

HOLE: Rau-09-60
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528529	7119035	1260	150.88

Contractor: Superior
Drill: Oxide 3

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 6.10 (m) out

Drilling dates: Sept 4-6, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.05	3.05	OVB	
3.05	6.10	3.05	VOL	
6.10	16.85	10.75	DOL	Moderately altered, mineralized
16.85	21.20	4.35	OX	Rubbly
21.20	22.35	1.15	DOL	Transition zone, mineralized
22.35	67.65	45.30	DOL	Mineralized
67.65	70.53	2.88	VOL	Altered
70.53	108.16	37.63	DOL	Mineralized
108.16	146.3	38.14	MBL	
146.3	150.88	4.58	LST	Fossiliferous

SAMPLES

Numbers: H885174-H885195, H885223-H885240
H885285-H885295 Batches 54, 55, 56, 57
Total: 51
Date sent:
Certificate: VA09100666, VA09100663, VA09100667
VA09104222

COMMENTS

The upper contact between the oxide and the dolomite is sharp, where as the lower contact is more gradational. The lower dolomite is fresh, while the upper dolomite is moderately altered.

GEOLOGY LOG

HOLE: Rau-09-60

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.05	3.05	OVB																			
3.05	6.10	3.05	VOL		AM																	Black amygdaloidal volcaniclastic with calcite infill of the amygdales. Recovery is very poor.
																						4.57-6.10 m: NO RECOVERY - possibly altered volcaniclastic that was washed away during drilling.
6.10	16.85	10.75	DOL	MX	BN	BD	60					w			m	m						Strongly mineralized dolomite with moderate pyrite and moderate arsenopyrite. Pyrite is fine to medium grained and occurs heavily disseminated as patches that are slightly banded at 60 deg to CA. The arsenopyrite is coarse grained to very coarse grained (up to 1 cm in diameter) on average 0.3 cm in diameter. In a few locations (16.40 m for example), the fine-medium grained pyrite appears to be replacing the coarse grained arsenopyrite. It appears to be quite a patchy style replacements. The dolomite is fine to coarse grained with large patches of quartz within (2-3%). The dolomite is fairly to moderately oxidized from a tinted orange brown to very dark brown in colour. Overall the zone is quite blocky with zones of extremely rubbly altered material.
				ALT																		
																						6.25-6.98 m: Poorly recovered fairly altered rubbly zone of mineralized dolomite.
																						7.82-8.35 m: Very rubbly fairly altered mineralized dolomite with medium to dark brown gritty alteration coating on it.
																						8.35-9.14 m: Medium mustard yellow brown gritty slightly clay rich rubble zone. A few fragments of fissile strongly altered volcaniclastic occur. Therefore this may be a thin layer of volcaniclastic within the oxide/sulphide zone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						9.14-10.67 m: Poorly recovered zone with rubbly strongly oxidized mineralized dolomite with rubbly oxidized zones. From 10.67-11.65 m a zone of brown highly altered dolomite rubble grading into grey gravelly clay. From 13.72-15.24 m: poorly recovered zone of strongly altered (not oxidized) dolomite with a very pale yellow green clay coating some of the surfaces.
																						15.24-16.34 m: Very poorly recovered oxidized rubble zones with sub-rounded limonite fragments up to 3 cm in diameter.
16.85	21.20	4.35	OX	RBL																		Sharp transition into medium orange brown clay with dark red-brown limonitic oxide fragments.
																						16.85-18.29 m: Rubbly dark orange red brown limonitic oxide fragments with medium orange-red oxide clay coatings.
																						18.29-18.50 m: Very altered fissile volcaniclastic with altered dolomite rubble. Probably represented a volcaniclastic layer within the mineralized dolomite.
																						18.50-19.81 m: reddish-orange-brown limonitic rubble with orange-brown clay coatings.
																						19.81-21.20 m: Medium slightly orangish-brown oxide clay with (3-5%) yellow mica flakes scattered throughout. Rare gritty fragments exist. The last 50 cm of the interval is rubbly and strongly oxidized mineralized dolomite.
21.20	22.35	1.15	DOL	MX											f	m						Transition zone between intensely oxidized rubbly and fresh mineralized dolomite. The dolomite contains moderate As and fair Py where the rock is clean enough to tell. The fragments are quite vuggy.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
22.35	67.65	45.30	DOL	MX	BN	BD	50								m	f						White and light grey faintly banded medium grained dolomite with bands of patchy and heavily disseminated pyrite and arsenopyrite. On some of the fractured surfaces a greenish- white talc like mineral occurs. The mineralized bands run at between 40-60 deg to CA. The most obvious banding is comprised of fine grained pyrite with arsenopyrite weakly associated with banding, but also occurs as coarse grained sub-hedral crystals scattered throughout.
						VN	30	230														At 27.45 m, there is a 0.5 cm wide pyrrhotite vein with associated coarse grained pyrite at 30 deg to CA. Pyrite also occurs as fine grained disseminated and irregular patches.
															m	f						Overall pyrite is greater in concentration to arsenopyrite. Pyrite is roughly moderate, arsenopyrite is fair.
						BD	40															22.35-30.60 m: Banding occurs at 40 deg to CA. Arsenopyrite is fairly concentrated and occurs as coarse grained crystals up to 1 cm in diameter fractured surfaces rarely show any sign of weathering, oxidation or alteration.
						BD	50															30.60-41.45 m: Arsenopyrite becomes less concentrated and where it does occur it is more commonly fine grained. The banding angle gradually increases to 50 deg to CA and 60 deg to CA at 38.50 m.
						BD	60															
						BD	50								m	m						41.45-45.25 m: The concentration of arsenopyrite increases to moderate in this interval. Banding occurs at 50 deg to CA.
															f	w						45.25- 54.34 m: Arsenopyrite concentration decreases again to weak and pyrite decreases to fair. Banding is slightly irregular, but most commonly occurs at 50 deg to CA. Silvery grey/white patches 0.3-1.5 cm in diameter of talc occur scattered throughout (1-3%). Fractures surfaces commonly have a yellow dark brown alteration stain on them.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	50								f	t						53.34-54.34 m: Slightly oxidized zone. A series of brown oxidized veins 0.2-1 cm thick with medium grained quartz and weak pyrite cuts at 20 deg to CA and 110 deg to the pyritic banding. The rest of the zone consists of a greenish to brownish tinted fine grained dolomite with alteration occurring along healed fractures and particularly intense around the pyrite. The last 15 cm of the interval grades into a progressively coarser grained dolomite. There is a stylolitic surface between beds of dolomite.
						VN	20	110														
						BD	50								s	m						54.34-65.53 m: Definite increase in the concentration of mineralization. To strong for Py and moderate for Asp. The dolomite is unique in that it varies widely from grained crystals up to coarse grained crystals (~1cm). There also appears to be 2 types of dolomite a creamy white dolomite a creamy white dolomite with very sharply defined crystals boundaries, and a light to medium grey typically coarser grained crystals with much less clearly defined crystal boundaries. It is possible that the yellowish dolomite is more hydrothermal and the grey is more digenetic?? Banding occurs at 50 deg to CA. Arsenopyrite generally occurs as coarse grained crystals (up to 1 cm in diameter) but more commonly a size of ~0.3 cm. The Asp occurs as individual crystals or groups of individual crystals, and rarely forms defined bands or large patches. Pyrite is generally fine to very fine grained and occurs as heavily disseminated patches, with zones of finer grained dolomite it is more common for the pyrite to be finely disseminated throughout with less well defined bands.
															75	m						64.54-64.76 m: Semi-massive zone of pyrite with moderate arsenopyrite
															60	l						65.30-65.53 m: Semi-massive zones of pyrite with moderate arsenopyrite .

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	60								f	t						65.53-67.65 m: Strongly altered zone. Varies from altered yellow brown mineralized dolomite to altered pink red altered dolomite. The red/pink altered area runs high for Mn on the XRF therefore is probably Rhodochrosite. The pyrite in this zone is more patchy than banded, but bands do occur at 60 deg to CA.
67.65	70.53	2.88	VOL	ALT						m					w							Grey-green sericite altered volcaniclastic which contains quite high density of strongly altered and recessively weathered dark brown stringer veinlets, that run at 35 and 50 deg to CA. The sericite alteration occurs from 67.65-69.20 m and progressively becomes unaltered.
						BD	50								w							69.20-70.26 m: Unaltered volcaniclastic. Looks quite different from other versions of volcaniclastic in other holes. It is blue grey in colour with a somewhat patchy looking dark brown banded pattern at 50 deg to CA. On broken surfaces these brown bands appear to contain biotite. The entire unit contains only weak fine grained disseminated pyrite.
						CN	60															70.26-70.53 m: Strongly sericite altered volcaniclastic (similar to the one at the top of the unit).
																						The lower contact is quite sharp at 60 deg to CA.
70.53	108.16	37.63	DOL	MX	BN										f	t						Creamy white to light grey dolomite with patchy and banded fine grained pyrite and rarer medium grained arsenopyrite. Overall pyrite is weak to fair, arsenopyrite is trace to weak. The light grey dolomite contains a fair amount of quartz and overall the unit seems as through it may be partly silicified.
						BD	60															70.53-74.40 m: White creamy white coarse grained dolomite with zones of light grey fine grained partly silicified dolomite. Pyrite occurs as patchy and banded at 60 deg to CA. Only trace very fine grained arsenopyrite occurs.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other						Other		Other	
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															f	w						74.40-78.42 m: Overall there is an increase in the amount of mineralization within this interval. It is composed of fine grained light grey to medium grey fine grained dolomite and quartz and medium to coarse grained and even megacrystic creamy yellow white dolomite. The main concentration of the mineralization occurs within the coarser grained dolomite. At 77.72 m there is a strange contact between the grey and the white yellow dolomite. It appears that the yellow dolomite is an alteration (via a fluid corridor) of the grey dolomite. Within some of the up to 2 cm crystals there is a core of grey dolomite. This fluid that altered the dolomite zones runs at ~10 deg to CA and 60 deg to the BD. Banding in the grey dolomite in the grey dolomite occurs at 55 deg to CA. Pyrite occurs as fine grained heavily disseminated bands occurring at 60 deg to CA. These bands are up to 6 cm thick and can be slightly vuggy and weakly altered. These bands are up to 6 cm thick and can be slightly vuggy and weakly altered. The arsenopyrite occurs as
																						medium to coarse grained sub to euhedral crystals scattered throughout. The dolomite which contains the most concentrated mineralization has a slight pinkish tint-possibly Rhodochrosite.
															f	w						78.42- 83.82 m: Decrease in the concentration of mineralization as well as a degrease in the concentration of the coarse grained white/cream yellow dolomite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	65								f	w						83.82-91.22 m: Cream yellow to orange-pinkish coarse grained dolomite with a vuggy texture between some of the crystal faces. There are slight gradational changes between the dolomite grain sizes but on average they are ~0.5 cm in diameter. Banding in the unit is defined by thin Py stringer bands as well as changes in the grain sizes but on average they are ~0.5 cm in diameter. Banding in the unit is defined by thin Py stringer bands as well as changes in the grain size of the dolomite layers. This banding occurs at 65 deg to CA. Pyrite occurs as fine grained heavily disseminated bands at 65 deg to CA
																						(fair). Asp occurs as coarse grained crystals scattered throughout (weak).
						BD	55								f	w						91.22-102.11 m: Pinkish white medium to coarse grained dolomite and zones of brecciated and crackle brecciated fine grained light to medium grey dolomite. The clasts in the breccia are subrounded to rounded and are generally more matrix supported. Pyrite occurs as heavily disseminated bands in the non-brecciated limestone, and as scattered disseminations and heavily disseminated patches and zones in the brecciated area. Overall pyrite is fair, arsenopyrite is medium to very coarse grained up to 1.5 cm in diameter overall weak. The breccia accounts for 50% and non-brecciated is 50%.
						VN	50															94.30 m: Three phases of dolomite veins cut the fine grained pyrite mineralization. One occurs at 50 deg, the second occurs at 60 deg, the third occurs at 25 deg to CA. (1st is oldest, 3rd is youngest).
						VN	60	180														
						VN	25	150														
																						98.13-98.56 m: Very heavily disseminated zone of banded Py at 55 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	45								w	t						102.11-107.16 m: Slightly recrystallized looking coarse grained white, cream pale pink dolomite with a faint slightly banded, texture at 45 deg to CA defined by the alteration colouration of the dolomite. There is a vuggy appearance from the voids between crystal faces. Pyrite occurs as weak patches and thin bands (1-4 mm thick). Only trace fine grained arsenopyrite. Fractured surfaces are sometimes coated with a dark red purple coloured stain - probably related to the Rhodochrosite.
						CN	65															The lower contact is very sharp (and intact) at 65 deg to CA.
108.16	146.30	38.14	MBL		BN	BD	65															White pure marble with rare impure brown to grey thin horizons at 65 deg to CA. The marble is very sugary in texture the grained size of coarse grained sand.
146.30	150.88	4.58	LST		BN	BD																Gradual transition into medium grey fossiliferous limestone with thin sericite stringer at 60 deg to CA and bedding at 50 deg to CA.
																						150.88 m: E.O.H - the hole was ended because it was well past the horizon of interest.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-60

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.05	4.57	1.52	0.05	3	1.00	66	MS	SW	
4.57	6.10	1.53	0.00	0	0.00	0			
6.10	7.62	1.52	0.84	55	0.23	15	S	HW	
7.62	9.14	1.52	0.88	58	0.17	11	W	EW	
9.14	10.62	1.48	0.07	5	0.00	0	EW	HW	
10.62	12.19	1.57	0.66	42	0.36	23	S	HW	
12.19	13.72	1.53	0.57	37	0.49	32	S	HW	
13.72	15.24	1.52	0.22	14	0.00	0	W	HW	
15.24	16.76	1.52	0.44	29	0.13	9	MS	HW	
16.76	18.29	1.53	0.60	39	0.00	0	HW	EW	
18.29	19.81	1.52	1.12	74	0.00	0	EW	EW	
19.81	21.34	1.53	1.34	88	0.00	0	EW	EW	
21.34	22.86	1.52	0.94	62	0.00	0	W	MW	
22.86	24.38	1.52	1.52	100	1.15	76	S	FR	
24.38	25.91	1.53	1.48	97	0.93	61	S	FR	
25.91	27.43	1.52	1.50	99	1.06	70	MS	FR	
27.43	28.96	1.53	1.50	98	1.48	97	S	FR	
28.96	30.48	1.52	1.52	100	1.10	72	S	FR	
30.48	32.00	1.52	1.29	85	1.20	79	S	FR	
32.00	33.53	1.53	1.40	92	1.16	76	S	FR	
33.53	35.05	1.52	1.50	99	0.93	61	MS	FR	
35.05	36.58	1.53	1.53	100	1.53	100	MS	FR	
36.58	38.10	1.52	1.43	94	0.95	62	MS	FR	
38.10	39.62	1.52	1.50	99	1.25	82	MS	FR	
39.62	41.15	1.53	1.39	91	1.30	85	MS	FR	
41.15	42.67	1.52	1.52	100	1.51	99	MS	FR	
42.67	44.20	1.53	1.53	100	1.45	95	MS	FR	
44.20	45.72	1.52	1.52	100	1.49	98	MS	FR	
45.72	47.24	1.52	1.52	100	1.52	100	MS	FR	
47.24	48.77	1.53	1.49	97	1.43	93	MS	FR	
48.77	50.29	1.52	1.52	100	1.44	95	S	FR	
50.29	51.82	1.53	1.53	100	1.36	89	MS	FR	
51.82	53.34	1.52	1.52	100	1.52	100	MS	FR	
53.34	54.86	1.52	1.42	93	1.18	78	MS	SW	
54.86	56.39	1.53	1.44	94	1.26	82	MS	FR	
56.39	57.91	1.52	1.52	100	1.52	100	S	FR	
57.91	59.44	1.53	1.46	95	1.46	95	MS	FR	
59.44	60.96	1.52	1.52	100	1.52	100	MS	FR	
60.96	62.48	1.52	1.46	96	0.39	26	MS	FR	
62.48	64.01	1.53	1.53	100	1.33	87	MS	FR	
64.01	65.53	1.52	1.43	94	1.43	94	MS	FR	
65.53	67.06	1.53	1.53	100	1.02	67	MS	MW	
67.06	68.58	1.52	1.21	80	0.48	32	MS	MW	
68.58	70.10	1.52	1.50	99	1.35	89	S	SW	
70.10	71.63	1.53	1.53	100	1.53	100	MS	FR	
71.63	73.15	1.52	1.52	100	1.42	93	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
73.15	74.68	1.53	1.42	93	1.22	80	MS	FR	
74.68	76.20	1.52	1.52	100	1.43	94	S	FR	
76.20	77.72	1.52	1.48	97	1.29	85	MS	FR	
77.72	79.25	1.53	1.53	100	1.53	100	MS	FR	
79.25	80.77	1.52	1.52	100	1.47	97	MS	FR	
80.77	82.30	1.53	1.34	88	0.92	60	MS	FR	
82.30	83.82	1.52	1.52	100	1.28	84	MS	SW	
83.82	85.34	1.52	1.52	100	1.31	86	MS	FR	
85.34	86.87	1.53	1.51	99	1.32	86	S	FR	
86.87	88.39	1.52	1.43	94	1.25	82	MS	SW	
88.39	89.92	1.53	1.53	100	1.53	100	MS	FR	
89.92	91.44	1.52	1.52	100	1.30	86	MS	SW	
91.44	92.96	1.52	1.50	99	1.50	99	MS	FR	
92.96	94.49	1.53	1.50	98	1.31	86	MS	FR	
94.49	96.01	1.52	1.45	95	1.32	87	S	SW	
96.01	97.54	1.53	1.53	100	1.53	100	S	SW	
97.54	99.06	1.52	1.51	99	1.38	91	MS	SW	
99.06	100.58	1.52	1.52	100	0.70	46	MS	MW	
100.58	102.11	1.53	1.35	88	0.38	25	MS	MW	
102.11	103.63	1.52	1.51	99	0.84	55	MS	SW	
103.63	105.16	1.53	1.53	100	1.53	100	MS	SW	
105.16	106.68	1.52	1.48	97	1.21	80	MS	SW	
106.68	108.20	1.52	1.44	95	1.25	82	MS	SW	
108.20	109.73	1.53	1.53	100	1.53	100	MS	FR	
109.73	111.25	1.52	1.52	100	1.34	88	S	FR	
111.25	112.78	1.53	1.45	95	0.70	46	MS	SW	
112.78	114.30	1.52	1.46	96	1.18	78	MS	FR	
114.30	115.82	1.52	1.52	100	1.16	76	MS	FR	
115.82	117.35	1.53	1.43	93	1.24	81	MS	FR	
117.35	118.87	1.52	1.52	100	1.24	82	MS	FR	
118.87	120.40	1.53	1.53	100	1.53	100	MS	FR	
120.40	121.92	1.52	1.52	100	1.21	80	MS	FR	
121.92	123.44	1.52	1.37	90	1.17	77	MS	FR	
123.44	124.97	1.53	1.53	100	1.53	100	MS	FR	
124.97	126.49	1.52	1.40	92	1.09	72	MS	FR	
126.49	128.02	1.53	1.53	100	1.34	88	MS	FR	
128.02	129.54	1.52	1.46	96	1.23	81	MS	FR	
129.54	131.06	1.52	1.50	99	1.41	93	MS	FR	
131.06	132.59	1.53	1.53	100	1.53	100	MS	FR	
132.59	134.11	1.52	1.52	100	1.27	84	MS	FR	
134.11	135.64	1.53	1.44	94	1.19	78	MS	FR	
135.64	137.16	1.52	1.52	100	1.52	100	MS	FR	
137.16	138.68	1.52	1.49	98	1.49	98	MS	FR	
138.68	140.21	1.53	1.49	97	1.36	89	MS	FR	
140.21	141.73	1.52	1.49	98	1.49	98	MS	FR	
141.73	143.26	1.53	1.53	100	1.53	100	MS	FR	
143.26	144.78	1.52	1.46	96	0.99	65	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
144.78	146.30	1.52	1.52	100	1.52	100	MS	FR	
146.30	147.83	1.53	1.41	92	0.98	64	MS	FR	
147.83	149.35	1.52	1.48	97	1.48	97	MS	FR	
149.35	150.88	1.53	1.53	100	1.53	100	MS	FR	
	150.88	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-60

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
6.10	7.62	1.52	0.84	55	H885174	3.5	54	1.72	0.26	1530	208.00	
7.62	9.14	1.52	0.88	58	H885175	3.0	54	4.53	0.75	1490	220.00	
9.14	10.67	1.53	0.07	5	H885176	0.5	54	7.96	1.26	13000	344.00	
10.67	11.65	0.98	0.28	29	H885177	0.5	54	5.27	1.99	42100	357.00	
11.65	13.72	2.07	0.98	47	H885178	5.0	54	7.32	0.27	35800	241.00	
13.72	15.24	1.52	0.22	14	H885180	0.5	54	0.63	0.10	43900	53.50	
15.24	16.85	1.61	0.58	36	H885181	2.0	54	6.12	0.22	137500	180.50	
16.85	18.29	1.44	0.53	37	H885182	1.5	54	10.80	0.76	66900	415.00	
18.29	19.81	1.52	1.12	74	H885183	4.0	54	1.76	0.26	31800	185.50	
19.81	21.20	1.39	1.08	78	H885184	4.0	54	5.64	2.40	55700	338.00	
21.20	22.35	1.15	0.70	61	H885185	3.0	54	4.10	0.21	115500	298.00	
22.35	24.38	2.03	2.03	100	H885186	9.5	54	9.66	0.24	51300	180.00	
24.38	27.43	3.05	3.04	100	H885187	14.5	54	4.23	0.13	44800	190.00	
27.43	30.60	3.17	3.17	100	H885188	15.0	54	1.41	0.13	40400	327.00	
30.60	33.53	2.93	2.60	89	H885189	11.5	54	0.74	0.05	8270	112.50	
33.53	36.58	3.05	3.05	100	H885190	13.0	54	0.19	0.10	3560	186.50	
36.58	39.62	3.04	2.98	98	H885191	13.0	54	0.22	0.10	4790	115.50	
39.62	42.42	2.80	2.63	94	H885192	12.0	54	0.53	0.27	5050	356.00	
42.42	43.85	1.43	1.43	100	H885193	9.0	55	3.53	0.51	89400	146.00	
43.85	45.25	1.40	1.40	100	H885194	7.0	55	1.61	0.38	18300	1085.00	
45.25	47.62	2.37	2.37	100	H885195	11.0	55	0.15	0.11	1550	175.50	
47.62	50.29	2.67	2.65	99	H885223	21.0	55	0.27	0.11	5080	125.50	
50.29	53.34	3.05	3.05	100	H885224	15.5	55	4.80	0.06	1690	120.50	
53.34	54.34	1.00	0.96	96	H885226	4.0	55	1.31	0.08	3990	260.00	
54.34	56.39	2.05	1.98	97	H885227	11.0	55	8.35	0.20	>10000	268.00	
56.39	59.44	3.05	3.04	100	H885228	15.5	55	2.92	0.16	>10000	255.00	
59.44	62.48	3.04	2.99	98	H885229	15.0	56	1.86	0.13	>10000	205.00	
62.48	65.53	3.05	3.00	98	H885230	15.0	56	3.53	0.17	>10000	432.00	
65.53	67.65	2.12	2.04	96	H885232	8.0	56	1.83	0.08	8210	113.00	
67.65	70.53	2.88	2.85	99	H885233	11.0	56	0.03	0.01	870	1.36	
70.53	71.95	1.42	1.42	100	H885234	6.0	56	3.68	0.84	1000	241.00	
71.95	74.40	2.45	2.20	90	H885235	10.0	56	1.71	0.71	1110	134.50	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
74.40	75.96	1.56	1.56	100	H885236	8.0	56	8.19	0.14	1390	173.00	
75.96	78.42	2.46	2.31	94	H885237	10.0	56	3.92	1.44	>10000	84.40	
78.42	80.77	2.35	2.35	100	H885239	10.0	56	0.53	0.18	>10000	13.85	
80.77	83.82	3.05	3.05	100	H885240	12.0	56	0.11	0.93	7160	25.30	
83.82	86.87	3.05	3.05	100	H885285	12.5	57	0.38	1.69	10300	66.70	
86.87	89.92	3.05	3.05	100	H885286	13.5	57	0.52	0.60	12200	90.80	
89.92	91.22	1.30	1.30	100	H885287	4.5	57	0.92	1.02	15500	72.80	
91.22	92.96	1.74	1.69	97	H885288	8.0	57	1.13	0.54	36000	46.50	
92.96	96.01	3.05	2.99	98	H885289	13.5	57	0.59	1.51	13800	84.90	
96.01	99.06	3.05	3.05	100	H885290	13.5	57	0.63	1.52	9650	127.50	
99.06	102.11	3.05	2.98	98	H885292	12.5	57	0.02	1.15	1020	23.70	
102.11	105.16	3.05	3.04	100	H885293	12.5	57	0.02	0.32	171	180.50	
105.16	108.16	3.00	2.85	95	H885294	12.0	57	0.01	0.25	64	69.80	
108.16	111.25	3.09	3.09	100	H885295	13.0	57	<0.01	0.01	11	0.95	
-	-	-			H885179	4.0	54	0.01	<0.01	34	0.59	Blank
50.29	53.34	3.05	3.05	100	H885225	6.0	55	1.27	0.06	3530	153.50	Duplicate
-	-	-			H885231	4.0	56	0.02	0.01	60	2.27	Blank
-	-	-			H885238	0.3	56	1.40	1.75	>10000	360.00	Standard R-2
-	-	-			H885291	0.3	57	1.62	1.68	26200	335.00	Standard R-2

BOX DENSITY LOG

HOLE: Rau-09-60

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
6	31.24	35.69	6.00	DOL	MX	4.07	72.0	2.84	
9	43.85	47.62	6.00	DOL	MX	3.89	79.0	3.26	
12	55.69	59.84	6.00	DOL	MX	4.03	96.0	3.82	~25% py + as
18	80.01	84.03	6.00	DOL	MX	4.06	71.0	2.81	~5% py + as
24	103.73	107.75	6.00	DOL	MX	3.94	69.0	2.81	Coarse grained dolomite, slighty re-crystallized by marble (?)

DENSITY LOG

HOLE: Rau-09-60

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
27.26	DOL	MX		14.3	6.1	665.2	232.8	1.58	1.54
42.55	DOL	MX		14.7	6.1	851.2	362.8	1.97	1.74
47.34	DOL	MX		15.0	6.1	615.0	226.2	1.39	1.58
58.04	DOL	MX		14.9	6.1	1154.3	709.5	2.63	2.60
79.40	DOL	MX		15.0	6.1	577.6	222.3	1.31	1.63
87.00	DOL	MX		14.6	6.1	714.5	321.6	1.66	1.82
98.33	DOL	MX		14.5	6.1	721.8	326.4	1.69	1.83
106.26	DOL	MX	~5% porosity/void created by dissolution	14.3	6.1	618.3	270.3	1.47	1.78
114.80	MBL			14.8	6.1	599.0	197.0	1.38	1.49

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-60

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3.05	VOL		24.20	
4.00	VOL		N/A	No recovery
5.00	DOL	MX	N/A	No recovery
6.00	DOL	MX	0.26	
7.00	DOL	MX	0.30	
8.00	DOL	MX	0.16	
9.00	DOL	MX	0.40	
10.00	DOL	MX	0.97	
11.00	DOL	MX	0.25	
12.00	DOL	MX	0.38	
13.00	DOL	MX	0.26	
14.00	DOL	MX	0.16	
15.00	DOL	MX	0.05	
16.00	DOL	MX	0.31	
17.00	OX	RBL	0.18	
18.00	OX	RBL	0.35	
19.00	OX	RBL	0.36	
20.00	OX	RBL	0.33	
21.00	OX	RBL	0.67	
22.00	DOL	MX	0.36	
23.00	DOL	MX	1.10	
24.00	DOL	MX	0.40	
25.00	DOL	MX	0.28	
26.00	DOL	MX	0.95	
27.00	DOL	MX	1.31	
28.00	DOL	MX	0.89	
29.00	DOL	MX	0.80	
30.00	DOL	MX	2.77	
31.00	DOL	MX	1.00	
32.00	DOL	MX	1.32	
33.00	DOL	MX	0.31	
34.00	DOL	MX	2.10	
35.00	DOL	MX	1.89	
36.00	DOL	MX	2.20	
37.00	DOL	MX	4.65	
38.00	DOL	MX	2.58	
39.00	DOL	MX	0.60	
40.00	DOL	MX	0.89	
41.00	DOL	MX	0.47	
42.00	DOL	MX	3.56	
43.00	DOL	MX	0.31	
44.00	DOL	MX	0.77	
45.00	DOL	MX	0.87	
46.00	DOL	MX	1.32	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	DOL	MX	0.60	
48.00	DOL	MX	0.31	
49.00	DOL	MX	0.87	
50.00	DOL	MX	3.09	
51.00	DOL	MX	1.51	
52.00	DOL	MX	15.50	
53.00	DOL	MX	0.45	
54.00	DOL	MX	0.90	
55.00	DOL	MX	0.50	
56.00	DOL	MX	0.25	
57.00	DOL	MX	1.09	
58.00	DOL	MX	0.16	
59.00	DOL	MX	0.57	
60.00	DOL	MX	0.48	
61.00	DOL	MX	0.25	
62.00	DOL	MX	0.31	
63.00	DOL	MX	0.33	
64.00	DOL	MX	0.42	
65.00	DOL	MX	0.47	
66.00	DOL	MX	0.67	
67.00	DOL	MX	0.84	
68.00	VOL	ALT	0.87	
69.00	VOL	ALT	0.48	
70.00	VOL	ALT	1.93	
71.00	DOL	MX	0.42	
72.00	DOL	MX	0.50	
73.00	DOL	MX	0.40	
74.00	DOL	MX	2.83	
75.00	DOL	MX	0.35	
76.00	DOL	MX	0.36	
77.00	DOL	MX	0.45	
78.00	DOL	MX	0.36	
79.00	DOL	MX	0.15	
80.00	DOL	MX	0.11	
81.00	DOL	MX	0.35	
82.00	DOL	MX	0.16	
83.00	DOL	MX	0.48	
84.00	DOL	MX	0.47	
85.00	DOL	MX	0.38	
86.00	DOL	MX	0.38	
87.00	DOL	MX	0.31	
88.00	DOL	MX	0.43	
89.00	DOL	MX	0.40	
90.00	DOL	MX	0.25	
91.00	DOL	MX	0.57	
92.00	DOL	MX	0.58	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	DOL	MX	0.31	
94.00	DOL	MX	0.10	
95.00	DOL	MX	0.36	
96.00	DOL	MX	0.30	
97.00	DOL	MX	0.33	
98.00	DOL	MX	0.57	
99.00	DOL	MX	0.42	
100.00	DOL	MX	0.38	
101.00	DOL	MX	0.57	
102.00	DOL	MX	0.63	
103.00	DOL	MX	0.48	
104.00	DOL	MX	0.45	
105.00	DOL	MX	0.48	
106.00	DOL	MX	0.67	
107.00	DOL	MX	0.53	
108.00	DOL	MX	0.30	
109.00	MBL		0.01	
110.00	MBL		0.01	
111.00	MBL		0.03	
112.00	MBL		0.01	
113.00	MBL		0.03	
114.00	MBL		0.01	
115.00	MBL		0.03	
116.00	MBL		0.05	
117.00	MBL		0.05	
118.00	MBL		0.08	
119.00	MBL		0.38	
120.00	MBL		0.13	
121.00	MBL		0.03	
122.00	MBL		0.13	
123.00	MBL		0.00	
124.00	MBL		0.01	
125.00	MBL		0.15	
126.00	MBL		0.01	
127.00	MBL		0.01	
128.00	MBL		0.01	
129.00	MBL		0.01	
130.00	MBL		0.03	
131.00	MBL		0.01	
132.00	MBL		0.06	
133.00	MBL		0.06	
134.00	MBL		0.05	
135.00	MBL		0.11	
136.00	MBL		1.15	
137.00	MBL		0.00	
138.00	MBL		0.03	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139.00	MBL		0.15	
140.00	MBL		0.03	
141.00	MBL		0.06	
142.00	MBL		0.01	
143.00	MBL		0.18	
144.00	MBL		20.50	
145.00	MBL		20.70	
146.00	MBL		0.52	
147.00	LST	FOS	0.55	
148.00	LST	FOS	1.27	
149.00	LST	FOS	0.48	
150.00	LST	FOS	1.47	

HOLE: Rau-09-60

BOX	FROM (m)	TO (m)
1	3.05	12.52
2	12.52	19.81
3	19.81	23.41
4	23.41	27.18
5	27.18	31.24
6	31.24	35.69
7	35.69	39.62
8	39.62	43.85
9	43.85	47.62
10	47.62	51.63
11	51.63	55.69
12	55.69	59.84
13	59.84	63.90
14	63.90	67.82
15	67.82	71.95
16	71.95	75.99
17	95.96	80.01
18	80.01	84.03
19	84.03	88.17
20	88.17	92.15
21	92.15	96.31
22	96.31	100.02
23	100.02	103.73
24	103.73	107.75
25	107.75	111.79
26	111.79	115.82
27	115.82	120.15
28	120.15	124.23
29	124.23	128.36
30	128.36	132.59
31	132.59	136.77
32	136.77	141.04
33	141.04	145.22
34	145.22	149.49
35	149.49	150.88
	150.88	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 09+780 NW

HOLE: Rau-09-61
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528748	7118976	1381	470.61

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: BTW
Casing depth: 4.57 (m) out

Drilling dates: Sept 6-12, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.51	3.51	OVB	
3.51	176.20	172.69	LST	
176.20	190.11	13.91	VOL	Altered
190.11	200.26	10.15	MBL	
200.26	306.40	106.14	LST	
306.40	312.07	5.67	VOL	Altered
312.07	317.40	5.33	SHL	
317.40	341.40	24.00	DOL	
341.40	368.07	26.67	LST	
368.07	423.85	55.78	LST	
423.85	464.78	40.93	LEP	
464.78	470.61	5.83	SHL	

SAMPLES

Numbers: H996369-H885385, H885392-H885397, H885437-H885459, G284213-G284219, G284286 G284286-G284305 Batches 59, 60, 61, 62, 65, 67
Total: 73
Date sent:
Certificate: VA09104223, VA09104227, VA09104226 VA09107519, VA09105682, VA09107518

COMMENTS

The mineralization in this hole was similar to hole Rau-09-44.

GEOLOGY LOG

HOLE: Rau-09-61

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.51	3.51	OVB																			
3.51	176.20	172.69	LST		FO																	Medium grey highly fossiliferous limestone with a prominent, but variable foliation.
																						3.51-24.51 m: Strongly fossiliferous limestone. Fossils include large up to 1.7 cm crinoid stem fragments and what could be calcite concretions (rounded calcite balls). The foliation varies as follows:
						FO	20															3.66-9.14 m: FO is 20 deg to CA
						FO	30															9.14-9.75 m: FO is 30 deg to CA
						FO	40															9.75-18.29 m: FO is 40 deg to CA
						FO	25															18.29-23.00 m: FO is 25 deg to CA
						FO	30															23.00-24.51 m: FO is 30 deg to CA
																						The foliation in general does not significantly disturb the crinoids, only slightly in some locations. In general the crinoid stem fragments are well intact (not broken up). The distinguishing feature of this unit is the size of the crinoids, they are much larger than any others drilled to date. Calcite veins follow the foliation and are 1-3 cm thick.
						VN	50															24.51-29.05 m: Medium grey spotted limestone. Almost looks like the leopard unit, but not exactly. Within you can make out rare crinoid stem fragments. Overall it appears to be slightly recrystallized. It contains trace yellow-green irregular sericite stringer veinlets at 50 deg to CA. The upper and lower contacts are gradational. Thin Ca veinlets occur at 60 deg to CA (trace).
						VN	60															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	45															29.05-41.28 m: Irregular medium to dark grey limestone unit with swaley limestone beds of medium dark grey. The unit contains an abundance of crinoid stem fragments as well as irregular corals or shells (seen in other holes). Due to the irregularity of the bedding only a rough measurement of 40-50 deg. The units looks soft sediment deformed (?) Almost has a mottled camo-texture. Thin Ca vein(lets) 0.2-3 cm cut at 15,20,50,60 deg to CA.
						VN	15															The crinoid stems in this unit are much smaller 0.2-0.5 cm in diameter on average. Rare star crinoids occur.
						VN	20															
						VN	50															
						VN	60															
						FO	40															41.28-42.00 m: Thinly foliated medium to dark grey slightly fossiliferous limestone. FO runs at 40 deg to CA. Very clean and regular looking most fossils are broken up. Rare intact star crinoids.
						BD	30															42.00- 55.90 m: Strongly structurally deformed fossiliferous limestone. Bedding is distinguishable from foliation in a few cases. BD runs at 30 deg. FO runs at 5 deg to ca, and at 190 deg to BD. In most cases the FO is so intense it completely disturbs the bedding. This fossils are much more rare (1%) but in general in good condition.
						FO	5	190														
																						55.90-147.50 m: Strongly structurally deformed banded, light and medium grey limestone with rare crinoid stem fragments. The light grey limestone bands are gritty in texture. The foliation is quite variable as described below. Zones within the limestone are more disturbed and do not have a banded character (this accounts for 20% of the interval). Trace pyrite occurs. The foliation is as follows:
						FO	10															55.90 - 56.90 m: FO 10 deg to CA

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	25															56.90 - 57.91 m: FO 25 deg to CA
						FO	20															57.91 - 59.05 m: FO 20 deg to CA
						FO	15															59.05 - 66.00 m: FO 15 deg to CA
						FO	30															66.00 - 61.15 m: FO 30 deg to CA
						FO	25															61.15 - 63.30 m: FO 25 deg to CA
						FO	20															63.30 - 64.01 m: FO 20 deg to CA
						FO	10															64.01 - 70.15 m: FO 10 deg to CA
						FO	20															70.15 - 73.80 m: FO 20 deg to CA
						FO	10															73.80 - 76.20 m: FO 10 deg to CA
						FO	30															76.20 - 79.30 m: FO 30 deg to CA
						FO	10															79.30 - 81.74 m: FO 10 deg to CA
						FO	15															81.74 - 84.15 m: FO 15 deg to CA
						FO	5															84.15 - 86.15 m: FO 5 deg to CA
						FO	10															86.15 - 90.05 m: FO 10 deg to CA
						FO	15															90.05 - 91.44 m: FO 15 deg to CA
						FO	30															91.44 - 95.50 m: FO 30 deg to CA
						FO	20															95.50 - 96.45 m: FO 20 deg to CA
						FO	10															96.45 - 98.66 m: FO 10 deg to CA
						FO	55															98.66 - 101.60 m: FO 55 deg to CA
						FO	30															101.60 - 102.30 m: FO 30 deg to CA
						FO	5															102.30 - 105.48 m: FO 5 deg to CA
																						102.30 m: Possible fold nose.
						FO	10															105.48 - 106.92 m: FO 10 deg to CA
						FO	15															106.92 - 108.35 m: FO 15 deg to CA
																						108.35 - 118.05 m: Too irregular and mixed up to measure.
						FO	15															118.05 - 121.30 m: FO 15 deg to CA
						FO	20															121.30 - 121.77 m: FO 20 deg to CA
																						121.77 - 128.65 m: Too irregular and mixed up to measure.
						FO	20															128.65 - 132.60 m: FO 20 deg to CA
						FO	45															132.60 - 133.00 m: FO 45 deg to CA
						FO	5															133.00 - 133.85 m: FO 5 deg to CA
						FO	20															133.85 - 134.30 m: FO 20 deg to CA
						FO	40															134.30 - 147.50 m: FO 40 deg to CA

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	60															147.50 - 161.76 m: Very dark grey, black limestone with foliation running at 60 deg to CA. Weak pyrite occurs scattered throughout. Crinoid fragments are fairly concentrated but quite broken up in general.
						FO	40															161.76-166.90 m: Very mixed looking medium grey slightly gritty and dark grey limestone. Has a swaley texture. The general structural direction is at 40 deg to CA.
						FO	65															166.90-170.43 m: Medium grey gritty limestone quite massive with a slight foliation at 65 deg to CA.
															f		f					170.43-175.41 m: Coarse grained white to light grey dolomite with calcite infill and possible light grey limestone. Pyrite and pyrrhotite occur as fine grained fairly disseminated patches.
			MBL			CN	80															175.41 - 176.20 m: White marble. Upper contact is at 80 deg to CA. The lower contact is at 70 deg to CA.
						CN	70															
176.20	190.11	13.91	VOL	ALT	AM																	Volcaniclastic. A mixture of amygdaloidal with calcite infill and altered volcaniclastic.
															w							176.20 - 177.60 m: Purple beige sericite altered volcaniclastic with weak disseminated pyrite.
					AM	FO	60															177.60 - 183.91 m: Black amygdaloidal volcaniclastic with calcite filling. The irregularly shaped vesicles are up to 1.5 cm in diameter averages 0.4 cm in diameter. Calcite veins cut at ~ 80 deg to CA with irregular undulating contacts. There is a faint structural orientation (stretching of the amygdales) which occurs at 60 deg to CA.
						VN	80															

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						183.91 - 187.15 m: Dark green - black fine grained volcaniclastic with 0.4 cm Ca veins cutting at 10, 40 and 80 deg to CA. Overall the interval is moderately calcareous. Some of the flood style Ca veinlets have a green tint to them (chlorite? - moderately soft as it easily scratches with a knife).
				ALT	CR	CN	50			ms												187.15-190.11 m: Dark slightly purplish brown volcaniclastic with calcite filled amygdales. From 188.09 m onwards the unit becomes progressively more sericite altered with an overprinting crackle texture. The lower contact occurs at 50 deg to CA.
190.11	200.26	10.15	MBL												w		w					190.11-200.26 m: Very light grey recrystallized looking marble. Does not fizz as much as expected (weak-fair). Very thin veinlets <1 mm cut at 40 deg to CA and contain fine grained Py +/- Po. Small (0.3 cm patches of Po also occurs in a few areas.
						VN	55															197.39 - 197.42 m: Po and Py vein occur at 55 deg to CA. (This part of the hole, and the volcaniclastic reminds me of Rau-09-54 except for the lack of mineralization).
200.26	306.40	106.14	LST		BX																	Light and medium grey fluid collapse brecciated limestone with a slightly recrystallized looking overprinting texture in parts. There appears to be a flaky white talc-like over print to the unit in zone (although it is not talc because it is not extremely soft). The unit fizzes only weakly with zones of stronger reaction to HCL.
						BD	65															207.60 - 212.72 m: Banded limestone with thin (1 mm) stylolites occurring between the bands at 65 deg to CA. Later Ca flood/veins cut this unit at 60 deg to CA.
						VN	60															
						VN	80															214.45-214.47 and 214.93 - 215.00 m: Two Py talc veins at 80 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						224.16-224.35 m: Rubbly altered zone. Fractured surfaces are rarely graphitic.
																				sp	t	224.35-245.30 m: Fractured surfaces sometimes are graphitic. Quartz now occurs with the Ca infill in some of the breccia. Associated with the Qz+/- Ca are fine fibrous black crystals seen in some of the other holes. Trace red sphalerite occurs in some of the fracture fills.
					BX	VN	40															245.30-276.52 m: Dark grey, generally freshly brecciated (mosaic) by white calcite. Clasts are angular. Throughout beneath this breccia and on the top 2.5 m of the interval there is a zone of gritty fine breccia with small angular black limestone clasts with a medium grey gritty looking matrix. Rare Qz+/- Ca veins cut at 40 deg to CA.
																						271.00 m: Begin to see coral mound fragments in the limestone. Trace overall.
						BD	60								t							276.52-289.53 m: Medium grey almost massive limestone with thin 2-5 mm calcite rich white to light grey Ca bands at 60 deg to CA. Rare very dark grey-black shaley horizons occur. Trace pyrite is generally associated with Ca bands.
																						285.15 m: Begin to get coral mound fragments.
																						288.34-289.53 m: Extremely rubbly zone with a 10 cm interval of sandy calcite rubble. This zone seems particularly graphitic.
															t							289.53-294.38 m: Very dark grey to black shaley limestone with graphitic fractures. Quite massive with weak banding at 50 deg to CA. Trace patches (2-5 mm in diameter) of disseminated pyrite.
						BD	70								w							294.38-304.40 m: Medium grey limestone with bands defined by thin <1-2 mm dark grey horizons running at 70 deg to CA. Irregular Ca veins cut at 5, 30, 60 deg to CA. Pyrite is weakly disseminated in small patches which seem particularly associated with the calcite.
						VN	5															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	30															
						VN	60															
306.40	312.07	5.67	VOL	ALT	FO	FO	50			ms										Fu	w	Light green/grey strongly foliated (almost mylonitic) moderate-strongly sericite altered volcaniclastic with specks of emerald green fuchsite weakly scattered throughout. FO runs at 50 deg to CA. Ca veins cut at 50 deg to CA and at 20 deg to the FO. Py and Po occurs as fine grained disseminations concentrated within Ca rich bands. Upper and lower contacts are gradual.
						VN	50	20														
312.07	317.40	5.33	SHL												f	w						Black non-calcareous shale. The foliation runs at 45 deg to CA. The shale is compositionally quite massive with no sign of bedding. Pyrite patches form wispy bands parallel to the foliation seem to be associated with thin calcite stringers in the unit. Pyrrhotite occurs in the same form as pyrite but the two do not seem to occur together.
317.40	341.40	24.00	DOL		MX	BD	60								30					Sp	t	White to light grey medium to coarse grained dolomite with 1-3% medium to coarse grained quartz. Rare bands of black shale occur within (1-3 %). Semi-massive to massive disseminated pyrite is the most distinctive part of this unit. The pyrite has a pyritohedral (?) crystal shape - like a rounded pentagon giving it a rounded cross section. This is particularly well observed is a small depression at 340 m with a few very well developed crystals growing within it. Rare dolomite/quartz bands occur at 60 deg to CA. Trace fine grained red sphalerite occurs in thin Ca veinlets.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	35															341.40-360.95 m: Medium to dark grey limestone with a weak fluid collapse brecciated texture. Fine to medium grained pyrite occurs disseminated throughout. Weak amounts of quartz occurs within the limestone.
341.40	368.07	26.67	LST												m							344.63 m: There is a 1.5 cm pale orange mass. Does not fizz with acid either fresh or when scratched. As well, it does not lamp under the UV light. It appears to contain reddish subhedral crystals 1-2 mm in diameter - sphalerite???
																						360.95-368.07 m: Begin to get a fine breccia. The clasts are very dark grey to black in colour, angular, to subangular, generally less than 1.0 cm in size and supported by a medium grey gritty looking limestone matrix. Pyrite occurs as fine to medium grained disseminated and small patches throughout.
																						363.70-364.24 m: Dark grey-black shale with fine grained disseminated pyrite throughout. Pre-mineralization Ca veins occur at 30 deg to CA.
368.07	423.85	55.78	LST		CR	BD	30															Medium grey moderately dolomitized limestone with a moderate crackle overprint. Faint banding occurs at 30 deg to CA.
						VN	30	0														
.																						371.65-372.83 m: Within the limestone there are vuggy veins at 30 deg to CA with coarse grained dolomite crystals that have a pink/purple alteration colouration - hematite or rhodochrosite??? Patchy pyrite occurs disseminated throughout but only trace overall.
																						375.51-379.80 m: The core becomes quite fractured up. The fractured surfaces often have a dark red-brown coating on them.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						348.35-406.89 m: The limestone becomes brecciated by light grey dolomite flood. Clasts are sub-angular to sub-rounded. Still get some of the medium grey breccia with black shale clasts. Rare quartz veins occur, 1-3 cm thick and cut at 25 and 60 deg to CA. Trace pyrite occurs associated with the dolomite.
																						401.15 m: Quartz +/- minor Ca veins occur cutting the limestone at 20 and 50 deg to CA. The Ca in these veins is occasionally stained a light yellow-orange colour.
																						At 405.05 m, there is a strongly oxidized vein 2 cm thick with a 2 mm calcite min running at 30 deg to CA.
																						Other Qz+/-Ca veins in the interval contain red-orange hematite within.
						FR	15								w		t	Sp	t			406.89-413.10 m: Slight increase in the concentration of pyrite to weak. Late tension cracks running at 15 deg to CA occur in parallel and roughly evenly spaced locations. These contain weak medium grained sphalerite crystals (a photo have been taken). Trace pyrrhotite also occurs throughout this interval. Small intervals (5-15 cm) of non-brecciated dolomitized limestone have a bedding angle of 60 deg to CA.
						BD	60															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	30								t		t					413.10-423.85 m: This interval contains zones of more well worked breccias. The clasts are light grey, and the matrix is medium to dark grey. The clasts are subrounded to rounded and appear to be later structurally deformed slightly to the angle of 30 deg to CA. Overprinting the other limestone is a strong crackle texture. Post crackle de-calcified calcite veins (don't fizz with HCl but are soft and milky in colour) occur at 40 deg to CA and are 0.25-0.75 cm thick. Overall trace pyrite and pyrrhotite occur disseminated as small patches. The pyrite seems most commonly concentrated from 423.45-423.85 m (moderately concentrated in this zone.)
						VN	40															
423.85	464.78	40.93	LEP	ALT		FO	30			w					t		t					Spotted slightly brownish grey and white strongly calcareous leopard spotted volcaniclastic. The unit has a weak foliation at 30 deg to CA, and contains wispy patches of sericite that are concordant to the FO - weak overall. Cannot identify biotite on the broken surfaces of the core, but the slight brownish colour indicates that it might occur within. Trace fine grained pyrite and pyrrhotite occur scattered throughout. Ca bands also occur concordant to the FO and are on average 1 cm thick. The upper contact occurs at 20 deg to CA but is not clearly defined. The lower contact is bound by a 12 cm Qz-Ca vein that occurs at 30 deg to CA.
						CN	20															
						CN	30															
						FO	50															441 m: The foliation changes to 50 deg to CA.
													Chl	w								447 m: The unit begins to be more irregular. The spotted texture more commonly becomes disrupted and weakly deformed. Chlorite begins to occur weakly throughout. 1-5 cm Qz +/- Ca veins occur concordant to the foliation at 50 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						456.40 m: banding becomes more pronounced at 50 deg to CA. With a weak fine tension crackle texture filled by Ca.
																						This area may represent more 'pure' leopard unit before it became reworked to give it the characteristic spotty texture.
																						459 m. The unit gradually becomes slightly bleached and becomes a lighteish medium grey colour.
																						Pyrite also increases in concentration in the last 25 cm (to fair).
464.78	470.61	5.83	SHL			FO	35								f							Black graphitic shale with pyrite disseminated and in small patches throughout. Overall the unit is quite massive with slight foliation recognisable by the alignment of faint pyrite bands at 35 deg to CA. The pyrite is very fine grained overall.
																						Grey dolomite +/- pale bubble gum pink dolomite (fizzes weakly when scratched) +/- Qz patches and vein cut the unit (10% overall).
																						465.07-470.61 m: patchy honey sphalerite and red sphalerite occur with bismuthanite. 15% honey, 5% red, 5% bismuthanite over the interval.
																						470.61 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-61

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.51	3.66	0.15	0.15	100	0.00	0	MS	SW	
3.66	3.96	0.30	0.30	100	0.18	60	MS	SW	
3.96	5.49	1.53	1.35	88	0.86	56	MS	FR	
5.49	6.40	0.91	0.57	63	0.55	60	MS	FR	
6.40	7.62	1.22	1.22	100	1.03	84	MS	FR	
7.62	9.14	1.52	1.43	94	0.75	49	MS	FR	
9.14	10.67	1.53	1.49	97	0.84	55	MS	FR	
10.67	12.19	1.52	1.45	95	1.25	82	MS	FR	
12.19	13.72	1.53	1.52	99	1.52	99	MS	FR	
13.72	15.24	1.52	1.51	99	1.51	99	MS	FR	
15.24	16.76	1.52	1.52	100	1.43	94	MS	FR	
16.76	18.29	1.53	1.52	99	1.52	99	MS	FR	
18.29	19.81	1.52	1.52	100	1.44	95	MS	FR	
19.81	21.34	1.53	1.51	99	1.51	99	MS	FR	
21.34	22.56	1.22	1.16	95	0.90	74	MS	FR	
22.56	24.08	1.52	1.52	100	1.46	96	MS	FR	
24.08	25.60	1.52	1.52	100	1.52	100	MS	FR	
25.60	27.43	1.83	1.79	98	1.34	73	MS	FR	
27.43	30.48	3.05	3.04	100	2.86	94	MS	FR	
30.48	33.53	3.05	3.00	98	2.72	89	MS	FR	
33.53	36.58	3.05	3.05	100	3.05	100	MS	FR	
36.58	39.62	3.04	3.03	100	2.93	96	MS	FR	
39.62	42.67	3.05	3.01	99	2.99	98	MS	FR	
42.67	45.72	3.05	3.04	100	2.90	95	MS	FR	
45.72	48.77	3.05	3.03	99	2.96	97	MS	FR	
48.77	51.82	3.05	3.01	99	2.87	94	S	FR	
51.82	54.86	3.04	3.04	100	2.93	96	MS	FR	
54.86	57.91	3.05	3.05	100	3.05	100	S	FR	
57.91	60.96	3.05	2.86	94	2.69	88	MS	FR	
60.96	64.01	3.05	3.04	100	3.04	100	MS	FR	
64.01	64.62	0.61	0.55	90	0.45	74	MS	FR	
64.62	67.06	2.44	2.44	100	2.18	89	MS	FR	
67.06	70.10	3.04	3.05	100	2.97	98	MS	FR	
70.10	73.15	3.05	3.05	100	3.05	100	MS	FR	
73.15	76.20	3.05	3.05	100	3.04	100	S	FR	
76.20	79.25	3.05	3.00	98	2.91	95	S	FR	
79.25	82.30	3.05	3.05	100	2.77	91	MS	FR	
82.30	85.34	3.04	3.04	100	2.94	97	MS	FR	
85.34	88.39	3.05	3.03	99	2.92	96	S	FR	
88.39	91.44	3.05	3.05	100	2.61	86	MS	FR	
91.44	94.49	3.05	3.02	99	2.94	96	MS	FR	
94.49	97.54	3.05	3.05	100	2.90	95	MS	FR	
97.54	100.58	3.04	3.04	100	2.75	90	MS	FR	
100.58	103.63	3.05	3.00	98	2.78	91	MS	FR	
103.63	106.68	3.05	3.05	100	2.84	93	MS	FR	
106.68	109.73	3.05	3.05	100	2.95	97	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
109.73	112.78	3.05	3.00	98	2.87	94	MS	FR	
112.78	115.82	3.04	3.04	100	2.84	93	MS	FR	
115.82	118.57	2.75	2.75	100	2.75	100	MS	FR	
118.57	121.77	3.20	3.15	98	3.03	95	MS	FR	
121.77	124.97	3.20	3.08	96	2.94	92	MS	FR	
124.97	128.02	3.05	3.05	100	2.90	95	MS	FR	
128.02	131.06	3.04	3.04	100	2.93	96	MS	FR	
131.06	134.11	3.05	3.00	98	2.74	90	MS	FR	
134.11	137.16	3.05	3.05	100	2.95	97	MS	FR	
137.16	140.21	3.05	3.05	100	2.91	95	MS	FR	
140.21	143.26	3.05	3.05	100	2.90	95	MS	FR	
143.26	146.30	3.04	3.00	99	2.97	98	MS	FR	
146.30	149.35	3.05	3.05	100	3.05	100	MS	FR	
149.35	152.40	3.05	3.04	100	2.70	89	MS	FR	
152.40	155.45	3.05	3.05	100	3.05	100	MS	FR	
155.45	158.50	3.05	3.05	100	3.05	100	MS	FR	
158.50	161.54	3.04	3.01	99	2.93	96	MS	FR	
161.54	164.59	3.05	3.05	100	2.99	98	MS	FR	
164.59	167.64	3.05	3.05	100	2.68	88	MS	FR	
167.64	170.69	3.05	3.02	99	2.97	97	MS	FR	
170.69	173.74	3.05	3.05	100	3.05	100	MS	FR	
173.74	176.78	3.04	3.03	100	2.99	98	MS	FR	
176.78	179.83	3.05	3.05	100	2.30	75	MS	FR	
179.83	182.88	3.05	3.05	100	3.03	99	MS	FR	
182.88	185.93	3.05	3.04	100	3.01	99	MS	FR	
185.93	188.98	3.05	2.95	97	2.40	79	MS	FR	
188.98	192.02	3.04	2.90	95	2.81	92	MS	FR	
192.02	195.07	3.05	2.70	89	2.64	87	MS	FR	
195.07	198.12	3.05	3.05	100	3.00	98	MS	FR	
198.12	201.17	3.05	2.98	98	2.64	87	MS	FR	
201.17	202.39	1.22	1.22	100	1.20	98	MS	FR	
202.39	205.45	3.06	3.05	100	2.87	94	MS	FR	
205.45	208.48	3.03	3.01	99	2.95	97	MS	FR	
208.48	211.53	3.05	3.05	100	2.92	96	MS	FR	
211.53	214.73	3.20	3.02	94	2.88	90	MS	FR	
214.73	217.78	3.05	3.05	100	3.05	100	MS	FR	
217.78	220.83	3.05	3.05	100	2.63	86	MS	FR	
220.83	222.20	1.37	1.37	100	0.55	40	MS	FR	
222.20	223.88	1.68	1.68	100	1.49	89	MS	FR	
223.88	226.92	3.04	3.05	100	2.22	73	MS	FR	
226.92	229.97	3.05	3.05	100	3.05	100	MS	FR	
229.97	233.17	3.20	3.06	96	2.87	90	MS	FR	
233.17	235.61	2.44	2.33	95	1.45	59	MS	FR	
235.61	238.66	3.05	3.05	100	2.82	92	MS	FR	
238.66	241.86	3.20	3.15	98	2.54	79	MS	FR	
241.86	245.06	3.20	3.15	98	2.15	67	MS	FR	
245.06	248.11	3.05	3.05	100	3.05	100	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
248.11	251.16	3.05	3.05	100	3.05	100	MS	FR	
251.16	254.20	3.04	3.04	100	2.97	98	MS	FR	
254.20	257.25	3.05	3.05	100	2.68	88	MS	FR	
257.25	260.30	3.05	3.05	100	2.65	87	MS	SW	
260.30	263.50	3.20	3.05	95	2.75	86	MS	FR	
263.50	266.70	3.20	3.05	95	1.72	54	MS	SW	
266.70	268.99	2.29	2.22	97	1.28	56	MS	SW	
268.99	272.03	3.04	3.04	100	3.04	100	MS	SW	
272.03	275.08	3.05	3.05	100	3.05	100	MS	FR	
275.08	277.37	2.29	1.09	48	1.03	45	MS	FR	
277.37	280.42	3.05	3.05	100	2.79	91	MS	FR	
280.42	283.46	3.04	3.04	100	2.99	98	MS	FR	
283.46	286.51	3.05	3.04	100	2.77	91	MS	FR	
286.51	288.65	2.14	2.05	96	1.58	74	W	FR	
288.65	289.86	1.21	1.04	86	0.13	11	W	FR	
289.86	292.61	2.75	2.75	100	2.43	88	MS	FR	
292.61	295.66	3.05	3.05	100	2.69	88	MS	FR	
295.66	298.70	3.04	3.04	100	2.95	97	MS	FR	
298.70	301.75	3.05	3.05	100	2.98	98	MS	FR	
301.75	304.80	3.05	3.05	100	2.53	83	MS	FR	
304.80	307.54	2.74	2.74	100	2.14	78	MS	FR	
307.54	310.29	2.75	2.36	86	1.67	61	MS	FR	
310.29	313.03	2.74	2.60	95	1.95	71	MS	FR	
313.03	314.86	1.83	1.83	100	1.34	73	MS	FR	
314.86	317.30	2.44	2.40	98	2.08	85	MS	FR	
317.30	320.04	2.74	2.74	100	2.72	99	MS	FR	
320.04	323.09	3.05	3.05	100	3.05	100	MS	FR	
323.09	325.22	2.13	1.94	91	1.24	58	MS	SW	
325.22	327.05	1.83	1.83	100	0.78	43	MS	SW	
327.05	328.57	1.52	1.10	72	0.29	19	MS	SW	
328.57	331.62	3.05	2.57	84	1.84	60	MS	SW	
331.62	334.37	2.75	2.75	100	2.65	96	MS	FR	
334.37	337.41	3.04	3.04	100	2.00	66	MS	FR	
337.41	340.46	3.05	3.05	100	2.85	93	MS	FR	
340.46	343.51	3.05	3.06	100	3.05	100	MS	FR	
343.51	346.56	3.05	2.95	97	2.72	89	MS	FR	
346.56	349.61	3.05	3.05	100	2.82	92	MS	FR	
349.61	352.65	3.04	3.05	100	3.05	100	MS	FR	
352.65	355.09	2.44	2.26	93	2.18	89	MS	FR	
355.09	358.14	3.05	3.02	99	2.97	97	MS	FR	
358.14	361.19	3.05	3.01	99	3.01	99	MS	FR	
361.19	364.24	3.05	3.05	100	2.99	98	MS	FR	
364.24	367.28	3.04	3.04	100	2.94	97	MS	FR	
367.28	370.33	3.05	2.95	97	2.67	88	MS	FR	
370.33	373.38	3.05	3.05	100	2.71	89	MS	FR	
373.38	375.51	2.13	2.00	94	1.30	61	MS	SW	
375.51	375.82	0.31	0.18	58	0.00	0	MS	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
375.82	375.97	0.15	0.08	53	0.00	0	MS	SW	
375.97	376.43	0.46	0.37	80	0.00	0	MS	SW	
376.43	378.10	1.67	1.25	75	0.97	58	MS	SW	
378.10	379.17	1.07	0.95	89	0.26	24	MS	SW	
379.17	380.39	1.22	1.12	92	0.00	0	MS	SW	
380.39	381.91	1.52	1.52	100	1.30	86	MS	SW	
381.91	384.35	2.44	2.05	84	1.42	58	MS	SW	
384.35	387.10	2.75	2.75	100	2.40	87	MS	SW	
387.10	388.62	1.52	1.52	100	1.28	84	MS	SW	
388.62	391.67	3.05	3.05	100	3.05	100	MS	FR	
391.67	394.72	3.05	2.92	96	2.78	91	MS	FR	
394.72	397.76	3.04	3.04	100	2.21	73	MS	FR	
397.76	400.51	2.75	2.73	99	2.58	94	MS	FR	
400.51	403.56	3.05	3.05	100	2.83	93	MS	FR	
403.56	406.60	3.04	3.04	100	2.28	75	MS	FR	
406.60	409.65	3.05	3.05	100	2.93	96	MS	FR	
409.65	412.70	3.05	3.05	100	2.75	90	MS	FR	
412.70	415.75	3.05	2.73	90	2.42	79	MS	FR	
415.75	418.80	3.05	3.05	100	2.95	97	MS	FR	
418.80	421.84	3.04	2.88	95	2.53	83	MS	FR	
421.84	424.89	3.05	3.05	100	2.44	80	MS	FR	
424.89	427.94	3.05	3.05	100	3.05	100	MS	FR	
427.94	430.99	3.05	3.05	100	3.05	100	MS	FR	
430.99	434.04	3.05	3.05	100	2.87	94	MS	FR	
434.04	437.08	3.04	3.04	100	3.02	99	MS	FR	
437.08	440.13	3.05	3.05	100	3.05	100	MS	FR	
440.13	443.18	3.05	2.97	97	2.18	71	MS	FR	
443.18	446.38	3.20	3.10	97	3.03	95	MS	FR	
446.38	449.28	2.90	2.63	91	2.55	88	MS	FR	
449.28	452.32	3.04	3.04	100	3.00	99	MS	FR	
452.32	455.37	3.05	3.05	100	2.83	93	MS	FR	
455.37	458.42	3.05	3.05	100	3.05	100	MS	FR	
458.42	461.47	3.05	2.94	96	2.34	77	MS	FR	
461.47	464.52	3.05	3.05	100	3.03	99	MS	FR	
464.52	467.56	3.04	2.75	90	2.68	88	MS	FR	
467.56	470.61	3.05	3.05	100	2.91	95	MS	FR	
	470.61	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-61

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
164.59	166.90	2.31	2.31	100	H885369	4.0	59	0.02	0.01	138	0.62	
166.90	168.00	1.10	1.10	100	H885370	2.0	59	0.01	<0.01	40	0.24	
168.00	170.43	2.43	2.38	98	H885371	4.0	59	0.01	0.01	93	0.50	
170.43	173.18	2.75	2.75	100	H885372	5.5	59	1.03	0.26	516	323.00	
173.18	176.20	3.02	3.02	100	H885373	6.0	60	0.83	0.17	2610	278.00	
176.20	177.60	1.40	1.40	100	H885374	2.0	60	0.01	0.10	25	4.33	
177.60	179.83	2.23	2.20	99	H885375	4.0	60	<0.01	<0.01	4	0.59	
179.83	182.88	3.05	3.05	100	H885376	5.5	60	<0.01	0.02	3	0.11	
182.88	185.93	3.05	3.05	100	H885377	5.5	60	<0.01	0.07	4	0.08	
185.93	187.15	1.22	1.18	97	H885378	3.0	60	0.01	0.14	3	0.05	
187.15	190.11	2.96	2.87	97	H885379	5.0	60	<0.01	0.08	9	0.85	
190.11	193.00	2.89	2.77	96	H885380	5.0	60	<0.01	0.18	12	1560.00	
193.00	196.00	3.00	2.68	89	H885381	4.5	60	<0.01	0.12	<5	6.02	
196.00	199.00	3.00	3.00	100	H885382	5.0	60	<0.01	0.32	<5	12.05	
199.00	200.26	1.26	1.26	100	H885384	2.5	60	<0.01	0.15	6	2.08	
200.26	202.39	2.13	2.13	100	H885385	4.0	60	<0.01	0.13	5	1.44	
301.63	304.00	2.37	2.37	100	H885392	2.0	60	<0.01	0.21	32	0.35	
304.00	306.40	2.40	2.40	100	H885394	5.0	60	<0.01	0.14	15	0.30	
306.40	309.12	2.72	2.72	100	H885395	5.0	60	0.01	0.27	28	0.80	
309.12	312.07	2.95	2.67	91	H885397	5.0	60	<0.01	0.01	58	4.98	
312.07	314.86	2.79	2.69	96	H885437	4.5	61	0.07	0.19	63	7.50	
314.86	317.40	2.54	2.52	99	H885438	5.0	61	0.19	0.21	200	18.10	
317.40	320.04	2.64	2.64	100	H885439	6.0	61	0.53	0.10	3160	43.60	
320.04	323.09	3.05	3.05	100	H885440	6.5	61	3.36	0.24	1120	211.00	
323.09	326.00	2.91	2.78	96	H885441	7.0	61	9.11	0.75	1770	344.00	
326.00	328.57	2.57	2.57	100	H885442	6.5	61	1.39	0.75	4460	238.00	
328.57	331.62	3.05	2.68	88	H885444	6.0	61	3.05	3.30	4860	476.00	
331.62	334.37	2.75	2.75	100	H885445	6.0	62	0.14	0.18	3760	134.00	
334.37	337.41	3.04	3.04	100	H885446	9.0	62	5.87	0.42	10400	328.00	
337.41	340.46	3.05	3.05	100	H885448	7.0	62	2.68	0.26	9110	163.50	
340.46	341.40	0.94	0.93	99	H885450	2.0	62	0.22	0.11	1350	63.40	
341.40	343.51	2.11	2.11	100	H885451	4.0	62	0.03	0.04	49	3.69	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
343.51	346.56	3.05	3.05	100	H885452	6.0	62	0.01	0.03	15	0.66	
346.56	349.61	3.05	3.05	100	H885453	5.5	62	<0.01	0.02	64	1.10	
349.61	352.65	3.04	3.04	100	H885454	5.0	62	0.01	0.03	99	2.79	
352.65	355.09	2.44	2.26	93	H885455	4.0	62	0.02	0.07	127	4.87	
355.09	358.14	3.05	3.04	100	H885456	6.0	62	<0.01	0.03	16	1.11	
358.14	360.95	2.81	2.81	100	H885458	5.0	62	0.02	0.04	44	1.51	
360.95	363.20	2.25	2.25	100	H885459	4.0	62	0.08	0.13	63	7.00	
363.20	366.12	2.92	2.92	100	G284213	5.5	65	0.03	0.10	34	0.41	
366.12	369.00	2.88	2.86	99	G284214	5.5	65	<0.01	0.07	15	0.28	
369.00	371.65	2.65	2.60	98	G284216	5.0	65	<0.01	0.05	24	0.08	
371.65	372.83	1.18	1.18	100	G284217	2.5	65	<0.01	0.32	88	1.07	
372.83	375.51	2.68	2.60	97	G284218	5.0	65	0.01	0.17	32	45.50	
375.51	378.10	2.59	1.98	76	G284219	4.5	65	<0.01	0.18	46	8.93	
401.96	404.00	2.04	2.04	100	G284286	4.0	67	0.01	0.28	63	11.35	
404.00	406.89	2.89	2.89	100	G284287	5.5	67	0.02	0.93	99	5.67	
406.89	409.65	2.76	2.76	100	G284288	6.0	67	0.06	1.36	248	93.90	
409.65	412.70	3.05	3.05	100	G284289	6.0	67	0.06	1.30	270	22.30	
412.70	415.75	3.05	2.73	90	G284290	5.0	67	0.02	0.84	74	15.70	
415.75	418.80	3.05	3.05	100	G284291	6.0	67	0.01	0.09	43	2.06	
418.80	421.84	3.04	2.88	95	G284293	5.0	67	0.01	0.17	138	0.71	
421.84	423.84	2.00	2.00	100	G284294	4.0	67	0.18	0.21	58	32.70	
423.84	426.81	2.97	2.97	100	G284295	5.5	67	0.01	<0.01	12	2.11	
426.81	429.77	2.96	2.90	98	G284296	5.5	67	<0.01	<0.01	9	0.74	
429.77	432.62	2.85	2.85	100	G284297	5.5	67	<0.01	<0.01	<5	0.12	
452.80	455.62	2.82	2.82	100	G284298	5.0	67	<0.01	0.07	13	0.40	
455.62	458.70	3.08	3.08	100	G284299	6.0	67	0.01	<0.01	<5	0.19	
458.70	461.75	3.05	2.93	96	G284301	5.0	67	<0.01	<0.01	8	0.55	
461.75	464.73	2.98	2.98	100	G284302	5.5	67	0.01	0.56	43	3.44	
464.73	467.56	2.83	2.55	90	G284303	5.0	67	0.19	5.18	278	23.50	
467.56	470.61	3.05	3.05	100	G284305	6.0	67	0.51	1.71	274	53.00	
-	-	-			H885383	0.3	60	0.50	0.93	6170	103.00	Standard R-1
301.63	304.00	2.37	2.37	100	H885393	4.0	60	<0.01	0.18	35	0.36	Duplicate

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H885396	4.0	60	<0.01	0.07	<5	0.10	Blank
-	-	-			H885443	4.0	61	<0.01	0.06	<5	0.64	Blank
-	-	-			H885447	0.3	62	0.50	0.91	6300	105.50	Standard R-1
-	-	-			H885449	4.0	62	<0.01	0.01	75	1.30	Blank
355.09	358.14	3.05	3.04	100	H885457	3.0	62	<0.01	0.02	14	1.05	Duplicate
366.12	369.00	2.88	2.86	99	G284215	2.5	65	0.01	0.11	11	0.26	Duplicate
-	-	-			G284292	4.5	67	<0.01	0.07	<5	0.10	Blank
-	-	-			G284300	0.3	67	0.49	0.83	4570	92.90	Standard R-1
-	-	-			G284304	4.0	67	<0.01	1.47	233	45.50	Blank

DENSITY LOG

HOLE: Rau-09-61

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
314.90	SHL			14.5	4.2	633.4	440.2	3.15	3.28
331.80	DOL			14.8	4.2	660.7	469.8	3.22	3.46
337.49	DOL			14.7	4.2	922.5	741.0	4.53	5.08
361.28	LST			14.9	4.2	582.4	373.5	2.82	2.79

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-61

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
3.51	LST		0.61	
4.00	LST		0.14	
5.00	LST		0.82	
6.00	LST		0.00	
7.00	LST		0.06	
8.00	LST		0.26	
9.00	LST		0.04	
10.00	LST		0.08	
11.00	LST		0.08	
12.00	LST		0.61	
13.00	LST		0.08	
14.00	LST		0.08	
15.00	LST		0.18	
16.00	LST		0.22	
17.00	LST		0.10	
18.00	LST		0.30	
19.00	LST		0.18	
20.00	LST		0.18	
21.00	LST		0.12	
22.00	LST		0.10	
23.00	LST		0.14	
24.00	LST		0.08	
25.00	LST		0.26	
26.00	LST		0.34	
27.00	LST		0.14	
28.00	LST		0.02	
29.00	LST		0.16	
30.00	LST		0.10	
31.00	LST		0.14	
32.00	LST		0.51	
33.00	LST		0.24	
34.00	LST		0.04	
35.00	LST		0.10	
36.00	LST		0.08	
37.00	LST		0.04	
38.00	LST		0.00	
39.00	LST		0.00	
40.00	LST		0.24	
41.00	LST		0.14	
42.00	LST		0.08	
43.00	LST		0.08	
44.00	LST		0.02	
45.00	LST		0.04	
46.00	LST		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	LST		0.06	
48.00	LST		0.04	
49.00	LST		0.02	
50.00	LST		0.10	
51.00	LST		0.04	
52.00	LST		0.00	
53.00	LST		0.00	
54.00	LST		0.08	
55.00	LST		0.02	
56.00	LST		0.20	
57.00	LST		0.04	
58.00	LST		0.04	
59.00	LST		0.04	
60.00	LST		0.06	
61.00	LST		0.10	
62.00	LST		0.02	
63.00	LST		0.24	
64.00	LST		0.06	
65.00	LST		0.04	
66.00	LST		0.45	
67.00	LST		0.06	
68.00	LST		0.02	
69.00	LST		0.14	
70.00	LST		0.04	
71.00	LST		0.59	
72.00	LST		0.00	
73.00	LST		0.18	
74.00	LST		0.00	
75.00	LST		0.43	
76.00	LST		0.22	
77.00	LST		0.02	
78.00	LST		0.04	
79.00	LST		0.26	
80.00	LST		0.69	
81.00	LST		0.04	
82.00	LST		0.28	
83.00	LST		0.02	
84.00	LST		0.02	
85.00	LST		0.02	
86.00	LST		0.06	
87.00	LST		0.06	
88.00	LST		0.04	
89.00	LST		0.00	
90.00	LST		0.08	
91.00	LST		0.04	
92.00	LST		0.04	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	LST		0.18	
94.00	LST		0.02	
95.00	LST		0.02	
96.00	LST		0.00	
97.00	LST		0.14	
98.00	LST		0.00	
99.00	LST		0.04	
100.00	LST		0.00	
101.00	LST		0.12	
102.00	LST		0.00	
103.00	LST		0.12	
104.00	LST		0.04	
105.00	LST		0.00	
106.00	LST		0.38	
107.00	LST		0.24	
108.00	LST		0.24	
109.00	LST		0.10	
110.00	LST		0.02	
111.00	LST		0.12	
112.00	LST		0.02	
113.00	LST		0.02	
114.00	LST		0.06	
115.00	LST		0.08	
116.00	LST		0.10	
117.00	LST		0.58	
118.00	LST		0.12	
119.00	LST		0.00	
120.00	LST		0.10	
121.00	LST		0.00	
122.00	LST		0.00	
123.00	LST		0.20	
124.00	LST		0.00	
125.00	LST		0.02	
126.00	LST		0.02	
127.00	LST		0.00	
128.00	LST		0.02	
129.00	LST		0.02	
130.00	LST		0.00	
131.00	LST		0.02	
132.00	LST		0.02	
133.00	LST		0.00	
134.00	LST		0.02	
135.00	LST		0.00	
136.00	LST		0.00	
137.00	LST		0.00	
138.00	LST		0.00	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139.00	LST		0.00	
140.00	LST		0.00	
141.00	LST		0.00	
142.00	LST		0.00	
143.00	LST		0.00	
144.00	LST		0.00	
145.00	LST		0.00	
146.00	LST		0.00	
147.00	LST		0.02	
148.00	LST		0.04	
149.00	LST		0.04	
150.00	LST		0.04	
151.00	LST		0.04	
152.00	LST		0.06	
153.00	LST		0.06	
154.00	LST		0.08	
155.00	LST		0.16	
156.00	LST		0.12	
157.00	LST		0.30	
158.00	LST		0.16	
159.00	LST		0.18	
160.00	LST		0.28	
161.00	LST		0.41	
162.00	LST		0.10	
163.00	LST		0.00	
164.00	LST		0.02	
165.00	LST		0.02	
166.00	LST		0.02	
167.00	LST		0.00	
168.00	LST		0.02	
169.00	LST		0.10	
170.00	LST		0.08	
171.00	LST		2.64	
172.00	LST		39.80	
173.00	VOL	ALT	13.30	
174.00	VOL	ALT	14.00	
175.00	VOL	ALT	26.80	
176.00	VOL	ALT	0.04	
177.00	VOL	ALT	11.30	
178.00	VOL	ALT	4.65	
179.00	VOL	ALT	2.82	
180.00	VOL	ALT	12.00	
181.00	VOL	ALT	4.79	
182.00	VOL	ALT	39.80	
183.00	VOL	ALT	20.70	
184.00	VOL	ALT	8.67	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
185.00	VOL	ALT	2.58	
186.00	VOL	ALT	2.39	
187.00	VOL	ALT	1.47	
188.00	VOL	ALT	0.55	
189.00	VOL	ALT	25.70	
190.00	VOL	ALT	0.12	
191.00	MBL		0.90	
192.00	MBL		0.71	
193.00	MBL		1.08	
194.00	MBL		0.53	
195.00	MBL		0.04	
196.00	MBL		1.86	
197.00	MBL		3.36	
198.00	MBL		0.06	
199.00	MBL		0.02	
200.00	MBL		0.08	
201.00	LST		0.14	
202.00	LST		0.04	
203.00	LST		0.06	
204.00	LST		0.24	
205.00	LST		0.04	
206.00	LST		0.02	
207.00	LST		0.20	
208.00	LST		0.02	
209.00	LST		0.04	
210.00	LST		0.00	
211.00	LST		0.61	
212.00	LST		0.04	
213.00	LST		0.02	
214.00	LST		0.02	
215.00	LST		0.08	
216.00	LST		0.57	
217.00	LST		0.12	
218.00	LST		0.04	
219.00	LST		0.04	
220.00	LST		0.02	
221.00	LST		0.02	
222.00	LST		0.18	
223.00	LST		0.08	
224.00	LST		0.04	
225.00	LST		0.06	
226.00	LST		0.02	
227.00	LST		0.04	
228.00	LST		0.02	
229.00	LST		0.06	
230.00	LST		0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
231.00	LST		0.12	
232.00	LST		0.02	
233.00	LST		0.04	
234.00	LST		0.04	
235.00	LST		0.08	
236.00	LST		0.02	
237.00	LST		0.20	
238.00	LST		0.06	
239.00	LST		0.02	
240.00	LST		0.14	
241.00	LST		0.65	
242.00	LST		0.02	
243.00	LST		0.04	
244.00	LST		0.08	
245.00	LST		0.04	
246.00	LST		0.22	
247.00	LST		0.08	
248.00	LST		0.02	
249.00	LST		0.00	
250.00	LST		0.04	
251.00	LST		0.02	
252.00	LST		0.02	
253.00	LST		0.47	
254.00	LST		0.04	
255.00	LST		0.00	
256.00	LST		0.00	
257.00	LST		0.00	
258.00	LST		0.02	
259.00	LST		1.04	
260.00	LST		0.08	
261.00	LST		0.10	
262.00	LST		0.06	
263.00	LST		0.10	
264.00	LST		0.36	
265.00	LST		0.06	
266.00	LST		0.04	
267.00	LST		0.02	
268.00	LST		0.14	
269.00	LST		0.10	
270.00	LST		0.02	
271.00	LST		0.06	
272.00	LST		0.08	
273.00	LST		0.00	
274.00	LST		0.20	
275.00	LST		0.12	
276.00	LST		0.02	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
277.00	LST		0.92	
278.00	LST		0.22	
279.00	LST		0.10	
280.00	LST		0.04	
281.00	LST		0.06	
282.00	LST		0.10	
283.00	LST		0.06	
284.00	LST		0.04	
285.00	LST		0.04	
286.00	LST		0.57	
287.00	LST		0.16	
288.00	LST		0.04	
289.00	LST		0.14	
290.00	LST		0.08	
291.00	LST		0.06	
292.00	LST		0.12	
293.00	LST		0.04	
294.00	LST		0.08	
295.00	LST		0.08	
296.00	LST		0.45	
297.00	LST		0.28	
298.00	LST		0.02	
299.00	LST		0.10	
300.00	LST		0.06	
301.00	LST		0.16	
302.00	LST		0.14	
303.00	LST		0.77	
304.00	LST		0.04	
305.00	LST		0.04	
306.00	LST		0.55	
307.00	VOL	ALT	0.53	
308.00	VOL	ALT	0.77	
309.00	VOL	ALT	0.65	
310.00	VOL	ALT	0.36	
311.00	VOL	ALT	4.14	
312.00	VOL	ALT	16.00	
313.00	SHL		6.90	
314.00	SHL		25.90	
315.00	SHL		1.37	
316.00	SHL		1.98	
317.00	SHL		1.66	
318.00	DOL		7.07	
319.00	DOL		5.69	
320.00	DOL		10.70	
321.00	DOL		5.00	
322.00	DOL		2.52	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
323.00	DOL		0.10	
324.00	DOL		0.47	
325.00	DOL		0.26	
326.00	DOL		0.16	
327.00	DOL		0.08	
328.00	DOL		0.24	
329.00	DOL		0.16	
330.00	DOL		0.57	
331.00	DOL		0.12	
332.00	DOL		0.18	
333.00	DOL		0.24	
334.00	DOL		3.81	
335.00	DOL		0.18	
336.00	DOL		0.10	
337.00	DOL		0.77	
338.00	DOL		0.06	
339.00	DOL		0.20	
340.00	DOL		0.38	
341.00	DOL		0.63	
342.00	LST		0.06	
343.00	LST		0.45	
344.00	LST		0.04	
345.00	LST		0.06	
346.00	LST		0.06	
347.00	LST		0.57	
348.00	LST		0.04	
349.00	LST		0.04	
350.00	LST		0.06	
351.00	LST		0.06	
352.00	LST		0.32	
353.00	LST		0.06	
354.00	LST		0.08	
355.00	LST		0.02	
356.00	LST		0.14	
357.00	LST		0.12	
358.00	LST		0.08	
359.00	LST		0.08	
360.00	LST		0.08	
361.00	LST		0.08	
362.00	LST		0.14	
363.00	LST		0.06	
364.00	LST		0.04	
365.00	LST		0.53	
366.00	LST		0.04	
367.00	LST		0.06	
368.00	LST		0.67	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
369.00	LST		0.02	
370.00	LST		0.04	
371.00	LST		0.02	
372.00	LST		0.90	
373.00	LST		0.06	
374.00	LST		0.82	
375.00	LST		0.14	
376.00	LST		0.08	
377.00	LST		0.04	
378.00	LST		1.27	
379.00	LST		0.10	
380.00	LST		0.14	
381.00	LST		0.02	
382.00	LST		0.45	
383.00	LST		0.04	
384.00	LST		0.06	
385.00	LST		0.08	
386.00	LST		0.10	
387.00	LST		0.18	
388.00	LST		0.06	
389.00	LST		0.10	
390.00	LST		0.67	
391.00	LST		0.06	
392.00	LST		0.06	
393.00	LST		0.10	
394.00	LST		0.24	
395.00	LST		0.41	
396.00	LST		0.06	
397.00	LST		1.66	
398.00	LST		0.09	
399.00	LST		0.18	
400.00	LST		1.17	
401.00	LST		0.21	
402.00	LST		0.67	
403.00	LST		0.10	
404.00	LST		0.01	
405.00	LST		0.09	
406.00	LST		0.10	
407.00	LST		0.65	
408.00	LST		0.14	
409.00	LST		0.16	
410.00	LST		0.27	
411.00	LST		0.53	
412.00	LST		0.51	
413.00	LST		0.18	
414.00	LST		0.40	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
415.00	LST		0.05	
416.00	LST		0.29	
417.00	LST		0.54	
418.00	LST		2.67	
419.00	LST		1.06	
420.00	LST		0.91	
421.00	LST		0.07	
422.00	LST		0.10	
423.00	LST		0.47	
424.00	LEP		2.19	
425.00	LEP		1.92	
426.00	LEP		2.67	
427.00	LEP		6.77	
428.00	LEP		2.17	
429.00	LEP		0.93	
430.00	LEP		0.51	
431.00	LEP		0.87	
432.00	LEP		0.27	
433.00	LEP		0.62	
434.00	LEP		0.89	
435.00	LEP		0.27	
436.00	LEP		0.38	
437.00	LEP		0.43	
438.00	LEP		0.40	
439.00	LEP		2.14	
440.00	LEP		0.31	
441.00	LEP		0.43	
442.00	LEP		0.29	
443.00	LEP		0.34	
444.00	LEP		0.34	
445.00	LEP		0.65	
446.00	LEP		0.96	
447.00	LEP		0.73	
448.00	LEP		4.28	
449.00	LEP		2.85	
450.00	LEP		4.33	
451.00	LEP		2.10	
452.00	LEP		3.55	
453.00	LEP		4.55	
454.00	LEP		0.60	
455.00	LEP		3.71	
456.00	LEP		2.21	
457.00	LEP		0.67	
458.00	LEP		0.95	
459.00	LEP		0.60	
460.00	LEP		1.95	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
461.00	LEP		1.02	
462.00	LEP		0.21	
463.00	LEP		0.40	
464.00	LEP		0.03	
465.00	SHL		0.62	
466.00	SHL		0.18	
467.00	SHL		0.14	
468.00	SHL		0.23	
469.00	SHL		0.20	
470.00	SHL		0.20	EOH at 470.61 m.

BOX LOG

HOLE: Rau-09-61

BOX	FROM (m)	TO (m)
1	3.51	8.50
2	8.50	13.58
3	13.58	19.12
4	19.12	24.51
5	24.51	30.18
6	30.18	35.92
7	35.92	41.45
8	41.45	47.24
9	47.24	52.90
10	52.90	58.37
11	58.37	64.24
12	64.24	70.12
13	70.12	75.91
14	75.91	81.74
15	81.74	87.32
16	87.32	92.88
17	92.88	98.66
18	98.66	104.18
19	104.18	109.73
20	109.73	115.54
21	115.54	121.10
22	121.10	126.94
23	126.94	132.6
24	132.60	138.35
25	138.35	144.10
26	144.10	149.78
27	149.78	155.45
28	155.45	161.20
29	161.20	166.93
30	166.93	172.59
31	172.59	178.28
32	178.28	183.74
33	183.74	189.50
34	189.50	195.67
35	195.67	201.17
36	201.17	206.35
37	206.35	211.94
38	211.94	217.72
39	217.72	223.22
40	223.22	228.59
41	228.59	234.32
42	234.32	239.92
43	239.92	245.61
44	245.61	251.16
45	251.16	256.77
46	256.77	262.39
47	262.39	0.00

BOX	FROM (m)	TO (m)
48	267.92	279.22
49	273.37	279.22
50	279.22	284.91
51	284.91	290.04
52	290.04	295.82
53	295.82	301.63
54	301.63	307.23
55	307.23	313.24
56	313.24	318.50
57	318.50	323.90
58	323.9	328.82
59	328.82	334.55
60	334.55	340.21
61	340.21	345.95
62	345.95	351.45
63	351.45	357.52
64	357.52	363.20
65	363.20	369.00
66	369.00	374.55
67	374.55	379.80
68	379.80	385.10
69	385.10	390.95
70	390.95	396.45
71	396.45	401.96
72	401.96	407.53
73	407.53	413.10
74	413.10	418.80
75	418.80	424.52
76	424.52	430.14
77	430.14	435.86
78	435.86	441.28
79	441.28	446.92
80	446.92	452.80
81	452.80	458.42
82	458.42	464.19
83	464.19	469.98
84	469.98	470.61
	470.61	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 09+970 NW

HOLE: Rau-09-62
CLAIM: Rau-56

Easting	Northing	Elev.	Depth (m)
528487	7119000	1232	54.86

Contractor: Superior
Drill: Oxide 3

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 16.46 (m) out

Drilling dates: Sep 6-8, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	6.10	6.10	OVB	
6.10	24.40	18.30	OX	Clay rich
24.40	32.00	7.60	LST	Altered
32.00	40.15	8.15	OX	Rubbly
40.15	54.86	14.71	MBL	

SAMPLES

Numbers: H885301-H885326
Batch 55
Total: 26
Date sent:
Certificate: VA09100663

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-62

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	6.10	6.10	OVB																			Overburden-mostly small fragments of grey limestone. Around 4.50 m, several 3 cm pieces of light greyish green volcaniclastic.
6.10	24.40	18.30	OX	CLY																		Brown oxide, generally very soft, crumbly to soupy. One small region of dolomite at 21 m. Oxide is quite uniform with no Qz fragments. (COLOUR: 7.5YR 4/4 - brown)
																						6.10-13.72 m: Crumbly brown oxide, slightly reddish-brown on weathered surfaces, usually slightly gritty with some clay. Occasional up to 2 cm more competent, slightly limonitic fragments.
																						13.72-14.80 m Extremely soft, yellowy-brown soupy clay with some fine grit.
																						16.50-16.76 m: A few dolomite fragments, coarse grained, white, and unmineralized.
																						16.76-20.72 m: Soupy brown clay, very soft, sometimes slightly gritty.
																						20.72-21.40 m: Coarse, brecciated dirty limestone, slightly vuggy and pitted with oxide. Light grey/tan.
																						21.40-24.38m Standard crumbly brown oxide.
24.40	32.00	7.60	LST	ALT		FO	50		w						t							Weakly foliated, carbonate altered, dirty limestone with trace crinoid stem fragments and occasional thin black (graphite?) stringers. Trace rusty weathered Py grains. Weak dolomitization.
						FR	15															27.30-32.00 m: Orangey-tan moderately dolomitized, limestone with no original bedding but prominent at 15 deg to CA. The fractures occur every 1-5 cm (healed, surrounded by rusty alteration).

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Other		Pyrite	Arsenopyrite	Pyrrhotite	Other		Other		
													Type	Intensity				Type	Intensity	Type	Intensity	
32.00	40.15	8.15	OX	RBL																		Oxide, slightly more competent, but still very rubbly and clay rich. Bottom contact is a roughly 40.15 m but with poor recovery after 39.62 m it is difficult to tell. The oxide is medium brown (COLOUR: 10YR 4/6 - dark yellowish brown) on outside smeared surface and a slightly darker brown (COLOUR: 10YR 3/4 - dark yellowish brown) on fresh surfaces.
																						38.10-38.75 m: Fine, lighter brown, plasticy oxide clay.
																						38.75-40.15 m: Darker red-brown to almost black crumbly oxide with some, up to 5 cm, competent limonitic fragments.
40.15	54.86	14.71	MBL			FO	40			w					t							Slightly altered dirty marble, orangey brown on fracture surfaces, with a weak foliation defined by yellow to grey sericite or carbonate stringers.
										t					w							44.50-46.70 m: Strange, vuggy stringer patterns in the marble. Increased Py blebs, and possible sericite stringers. Vugs are present where some of the stringers have weathered away. White marble continues, occasionally with weak foliation at 50 deg to Ca until the end of hole.
						FO	50															46.70-54.86 m: White marble continues, occasionally with weak foliation at 50 deg to Ca until the end of hole.
																						54.86 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-62

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
4.10	4.57	0.47	0.47	100	0.00	0	MS	SW	
4.57	6.10	1.53	0.07	5	0.00	0	MS	SW	
6.10	7.62	1.52	1.02	67	0.00	0	W	EW	
7.62	9.14	1.52	0.93	61	0.00	0	VW	EW	
9.14	10.67	1.53	0.65	42	0.00	0	EW	EW	
10.67	12.19	1.52	0.90	59	0.00	0	EW	EW	
12.19	13.72	1.53	0.45	29	0.00	0	EW	EW	
13.72	15.24	1.52	0.85	56	0.00	0	EW	EW	
15.24	16.76	1.52	1.02	67	0.00	0	VW	EW	
16.76	18.29	1.53	0.49	32	0.00	0	EW	EW	
18.29	19.81	1.52	0.48	32	0.00	0	EW	EW	
19.81	21.34	1.53	1.53	100	0.31	20	W	EW	
21.34	22.86	1.52	0.67	44	0.00	0	EW	EW	
22.86	24.38	1.52	0.36	24	0.00	0	EW	EW	
24.38	25.91	1.53	1.40	92	0.87	57	W	EW	
25.91	27.43	1.52	1.52	100	1.02	67	MS	EW	
27.43	28.96	1.53	1.08	71	0.94	61	MS	EW	
28.96	30.48	1.52	1.07	70	0.59	39	W	EW	
30.48	32.00	1.52	0.40	26	0.18	12	MS	EW	
32.00	33.53	1.53	0.17	11	0.00	0	VW	EW	
33.53	35.05	1.52	1.05	69	0.00	0	VW	EW	
35.05	36.58	1.53	0.72	47	0.00	0	EW	EW	
36.58	38.10	1.52	1.34	88	0.00	0	EW	EW	
38.10	39.62	1.52	1.05	69	0.00	0	EW	EW	
39.62	41.15	1.53	1.01	66	0.92	60	MS	SW	
41.15	42.67	1.52	1.05	69	0.87	57	MS	SW	
42.67	44.20	1.53	1.17	76	0.36	24	MS	SW	
44.20	45.72	1.52	1.52	100	0.84	55	MS	SW	
45.72	47.24	1.52	1.43	94	1.33	87	MS	SW	
47.24	48.77	1.53	1.47	96	1.00	65	MS	SW	
48.77	50.29	1.52	1.51	99	1.46	96	MS	SW	
50.29	51.82	1.53	1.52	99	1.45	95	MS	SW	
51.82	53.34	1.52	1.46	96	1.29	85	MS	FR	
53.34	54.86	1.52	1.52	100	1.31	86	MS	FR	
	54.86	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-62

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
4.10	6.10	2.00	0.67	34	H885301	1.5	58	0.06	0.52	853	4.83	
6.10	7.62	1.52	1.02	67	H885302	2.5	58	8.69	0.93	55400	155.50	
7.62	9.14	1.52	0.93	61	H885303	3.0	58	3.60	7.88	83700	209.00	
9.14	10.67	1.53	0.65	42	H885304	2.5	58	8.73	6.84	71100	810.00	
10.67	12.19	1.52	0.90	59	H885305	2.5	58	10.20	2.97	47800	246.00	
12.19	13.72	1.53	0.45	29	H885306	2.0	58	1.61	1.09	42700	477.00	
13.72	15.24	1.52	0.85	56	H885307	2.5	58	1.90	4.96	62800	324.00	
15.24	16.76	1.52	1.02	67	H885308	3.5	58	2.86	0.61	33100	157.50	
16.76	18.29	1.53	0.49	32	H885309	2.0	58	6.19	7.21	43600	297.00	
18.29	19.81	1.52	0.48	32	H885310	1.5	58	1.98	2.94	26500	130.50	
19.81	20.72	0.91	0.91	100	H885311	3.5	58	2.13	7.67	34000	136.50	
20.72	21.40	0.68	0.68	100	H885312	2.5	58	0.08	0.29	3990	3.54	
21.40	22.86	1.46	0.59	40	H885313	2.0	58	2.43	1.66	30000	130.50	
22.86	24.40	1.54	0.74	48	H885314	1.5	58	6.24	12.20	73100	196.00	
24.40	27.43	3.03	2.83	93	H885316	10.0	58	0.39	2.97	5240	301.00	
27.43	30.48	3.05	2.15	70	H885318	8.0	58	0.34	0.81	3500	35.40	
30.48	32.00	1.52	0.40	26	H885319	1.0	58	0.44	1.08	4680	38.50	
32.00	33.53	1.53	0.17	11	H885320	0.5	58	1.09	0.51	69400	94.90	
33.53	35.05	1.52	1.05	69	H885321	3.0	58	0.91	0.26	61400	41.30	
35.05	36.58	1.53	0.72	47	H885322	3.0	58	0.70	0.17	76600	23.80	
36.58	38.10	1.52	1.34	88	H885324	4.0	58	0.05	0.07	60100	8.33	
38.10	40.15	2.05	1.40	68	H885325	4.0	58	0.14	0.11	60000	3.89	
40.15	42.67	2.52	2.04	81	H885326	8.0	58	<0.01	<0.01	169	0.18	
-	-	-			H885315	4.0	58	0.01	0.01	154	0.28	Blank
24.40	27.43	3.03	2.83	93	H885317	5.0	58	0.41	6.32	8470	467.00	Duplicate
-	-	-			H885323	0.3	58	1.54	1.54	27800	343.00	Standard R-2

BOX DENSITY LOG

HOLE: Rau-09-62

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
2	9.32	14.80	6.12	OX	CLY	2.90	40.0	2.13	
7	35.27	39.17	6.12	OX	CLY	3.20	45.0	2.17	

DENSITY LOG

HOLE: Rau-09-62

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
54.67	MBL			15.0	6.1	1192.9	766.9	2.70	2.80

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-62

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.10	OX	CLY	26.8	
5.00	OX	CLY	0.53	
6.00	OX	CLY	0.53	
7.00	OX	CLY	0.42	
8.00	OX	CLY	0.6	
9.00	OX	CLY	0.5	
10.00	OX	CLY	0.43	
11.00	OX	CLY	0.48	
12.00	OX	CLY	0.2	
13.00	OX	CLY	0.25	
14.00	OX	CLY	1.31	
15.00	OX	CLY	0.63	
16.00	OX	CLY	0.63	
17.00	OX	CLY	0.42	
18.00	OX	CLY	1.61	
19.00	OX	CLY	0.33	
20.00	OX	CLY	4.9	
21.00	OX	CLY	0.16	
22.00	OX	CLY	0.38	
23.00	OX	CLY	0.48	
24.00	OX	CLY	0.4	
25.00	LST	ALT	0.35	
26.00	LST	ALT	0.5	
27.00	LST	ALT	0.57	
28.00	LST	ALT	0.55	
29.00	LST	ALT	0.01	
30.00	LST	ALT	0.48	
31.00	LST	ALT	0.25	
32.00	LST	ALT	0.57	
33.00	OX	RBL	0.45	
34.00	OX	RBL	0.5	
35.00	OX	RBL	0.5	
36.00	OX	RBL	0.38	
37.00	OX	RBL	0.62	
38.00	OX	RBL	0.73	
39.00	OX	RBL	0.57	
40.00	OX	RBL	0.03	
41.00	MBL		0.28	
42.00	MBL		0.18	
43.00	MBL		0.05	
44.00	MBL		0.01	
45.00	MBL		0.08	
46.00	MBL		0.13	
47.00	MBL		0.1	
48.00	MBL		0.06	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
49.00	MBL		0.03	
50.00	MBL		0.01	
51.00	MBL		0	
52.00	MBL		0.05	
53.00	MBL		0.03	
54.00	MBL		0.01	

BOX LOG

HOLE: Rau-09-62

BOX	FROM (m)	TO (m)
1.0	4.1	9.3
2.0	9.3	14.8
3.0	14.8	20.2
4.0	20.2	24.6
5.0	24.6	29.0
6.0	29.0	35.3
7.0	35.3	39.2
8.0	39.2	44.2
9.0	44.2	48.3
10.0	48.3	52.3
11.0	52.3	54.9

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 09+935 NW

HOLE: Rau-09-63
CLAIM: Rau56

Easting	Northing	Elev.	Depth (m)
528524	7118984	1252	72.54

Contractor: Superior
Drill: Oxide 2

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 1.52 (m) out

Drilling dates: Sept 6-8, 2009

Logged by: J. Lane, R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.86	3.86	OVB	
3.86	5.00	1.14	DOL	Altered
5.00	7.01	2.01	OX	Clay rich
7.01	11.58	4.57	OX	Rubbly
11.58	14.63	3.05	OX	Rubbly
14.63	21.79	7.16	LST	Altered, brecciated
21.79	26.82	5.03	DOL	Crackle brecciated
26.82	35.97	9.15	LST	Altered, brecciated
35.97	45.94	9.97	OX	Rubbly
45.94	49.68	3.74	LST	Altered, brecciated
49.68	54.25	4.57	OX	Sideritic
54.25	55.78	1.53	DOL	Altered, oxidized
55.78	66.45	10.67	OX	Rubbly
66.45	72.54	6.09	MBL	

SAMPLES

Numbers: H885327-H885367 Batch 58, 59

Total: 41
Date sent:
Certificate: VA09104228, VA09104223

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-63

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.86	3.86	OVB																			
3.86	5.00	1.14	DOL	ALT								f										Fairly altered poorly recovered brecciated rubbly medium grained light to medium grey dolomite.
5.00	7.01	2.01	OX	CLY																		Medium orange brown sandy gritty oxide clay. Recovery is not great. (COLOUR - 7.5YR 4/4 - brown).
7.01	11.58	4.57	OX	RBL																		A mixture of weakly to strongly altered dolomite fragments and rubbly gritty oxide clay. The oxide is medium to dark orange brown with strong concentration of limonitic and sideritic fragments. 30% dolomite, 70% oxide. (COLOUR 7.5 YR 3/3 - dark brown).
11.58	14.63	3.05	OX	RBL																		Variably coloured oxide zone with colours ranging from dark brown to milk chocolate brown to reddish brown sideritic fragments. The milk chocolate brown material is soupy clay. The siderite is angular rubble and sandy gritty grey-brown rubble. At the top of the interval there is a fragment with bright yellow-orange-brown oxide coating. (COLOURS: 7.5 YR 4/3 - brown; 7.5YR 2.5/2 - very dark brown; 7.5YR 4/4 - brown).
14.63	21.79	7.16	LST	ALT	BX	VN	10								w	n						Medium grey moderate-strongly dolomitized limestone with a moderate to weak crackle brecciation texture. A 1.5 cm thick pinkish dolomite vein runs at 10 deg to CA. Weak, strongly oxidized fine to medium grained pyrite occurs scattered throughout. No visible arsenopyrite occurs.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
21.79	26.82	5.03	DOL		CR	FR	40								f	t						Medium grained fairly altered dolomite with fair fine grained disseminated pyrite and trace fine grained arsenopyrite. A weak to fair crackle texture overprints the dolomite and might act as a conduit for pyrite bearing fluids as they appear to be most concentrated around them. Common healed fracture orientation is 40 deg to CA.
																						25.53-25.86 m: vuggy dark brown siderite fragment.
26.82	35.97	9.15	LST	ALT	BX				m						t							Medium grey moderately dolomitized fluid collapse brecciated limestone with an overprinting crackle breccia texture in parts. Overall the unit is moderately fractured up. Trace fine grained disseminated pyrite.
					CR																	32.92-35.97 m: The limestone becomes moderately oxidized and strongly fractured and rubbly. Small zones up to 7 cm thick of oxidized rubble occur.
35.97	45.94	9.97	OX	RBL											f							Medium to dark orange brown and dark red brown black sideritic and oxide rubble with fragments of moderately to strongly oxidized cream dolomite with fairly disseminated fine grained pyrite. These zones are becoming pitted with the degradation of the sulphides. Overall the dolomite is 15% and the oxide is 85%. (COLOURS: 7.5YR 4/4 - brown; 7.5YE 3/3 - dark brown; 7.5YR 2.5/1 - black).
45.94	49.68	3.74	LST	ALT	BX	CR			w						t							Weakly dolomitized medium grey fluid brecciated limestone with an overprinted crackle texture. Fractured surfaces have a dark orange-brown alteration stain on them. Trace fine grained widely disseminated pyrite.
															f	t						48.16-49.68 m: Intensely oxidized dolomite. Medium to dark orange-brown in colour. Contains a large clot of arsenopyrite as well as oxidized spots of pyrite.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						Moderately to strongly altered orange-yellow to creamy-yellow to tan-brown extremely rubbly volcaniclastic.
49.68	54.25	4.57	OX	ALT									SID	ms								Dark red-brown sideritic oxide. Relatively competent with rubbly zones. (COLOUR: 5YR 2.5/2 - dark reddish brown).
54.25	55.78	1.53	DOL	OX																		More competent, dirty white fine grained dolomite (fine-grained). Variably oxidized with some brownish oxidized rubbly regions.
55.78	66.45	10.67	OX																			Crumbly oxide, ranging from lighter brown on smeared surfaces to quite dark reddish-brown/black limonite. Usually slightly competent, broken into 0.5-3 cm fragments (COLOUR: 5YR 3/2 - dark reddish brown).
																						55.78-56.50 m: More competent, harder, with dark purplish black limonite throughout, core also looks semi-metallic in places.
																						63.45-63.55 m: Light brown, gritty, sandy region with some quartz sand grains.
66.45	72.54	6.09	MBL			FO	55															Dirty white marble, contact very abrupt. A few < 20 cm intervals of oxide crumble/gouge, generally located at interval blocks so they may have fallen in from above? Marble has brownish, with a slight oxidized coating on some fractures.
																						72.54 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

HOLE: Rau-09-63

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.86	3.96	0.10	0.10	100	0.00	0	MS	SW	
3.96	5.49	1.53	0.50	33	0.00	0	W	HW	
5.49	7.01	1.52	0.10	7	0.00	0	EW	EW	
7.01	8.53	1.52	0.70	46	0.00	0	EW	EW	
8.53	10.06	1.53	1.29	84	0.00	0	EW	EW	
10.06	11.58	1.52	0.55	36	0.00	0	EW	EW	
11.58	13.11	1.53	0.97	63	0.00	0	EW	EW	
13.11	14.63	1.52	0.61	40	0.00	0	EW	EW	
14.63	16.15	1.52	1.02	67	0.47	31	MS	MW	
16.15	17.68	1.53	0.32	21	0.14	9	MS	MW	
17.68	19.20	1.52	1.12	74	0.13	9	MS	MW	
19.20	20.73	1.53	1.27	83	0.60	39	MS	SW	
20.73	22.25	1.52	1.05	69	0.45	30	S	SW	
22.25	23.77	1.52	1.42	93	0.90	59	S	MW	
23.77	25.30	1.53	1.50	98	1.02	67	VS	SW	
25.30	26.82	1.52	0.70	46	0.44	29	MS	MW	
26.82	28.35	1.53	1.30	85	0.52	34	MS	SW	
28.35	29.87	1.52	1.14	75	0.30	20	MS	SW	
29.87	31.39	1.52	0.28	18	0.00	0	MS	SW	
31.39	32.92	1.53	0.18	12	0.00	0	MS	SW	
32.92	34.44	1.52	0.80	53	0.13	9	MS	MW	
34.44	35.97	1.53	1.18	77	0.25	16	MS	HW	
35.97	37.49	1.52	0.65	43	0.00	0	VW	EW	
37.49	39.01	1.52	0.82	54	0.00	0	VW	EW	
39.01	40.54	1.53	0.55	36	0.29	19	EW	EW	
40.54	42.06	1.52	0.47	31	0.00	0	EW	EW	
42.06	43.59	1.53	0.63	41	0.00	0	EW	EW	
43.59	45.11	1.52	1.00	66	0.00	0	EW	EW	
45.11	46.63	1.52	1.42	93	0.33	22	VW	HW	
46.63	48.16	1.53	1.46	95	1.30	85	MS	MW	
48.16	49.68	1.52	0.55	36	0.39	26	VW	HW	
49.68	51.21	1.53	0.70	46	0.16	10	EW	EW	
51.21	52.73	1.52	0.87	57	0.21	14	VW	EW	
52.73	54.25	1.52	1.31	86	0.70	46	VW	MW	
54.25	55.78	1.53	1.12	73	0.99	65	VW	MW	
55.78	57.30	1.52	1.25	82	0.00	0	VW	EW	
57.30	58.83	1.53	1.28	84	0.00	0	VW	EW	
58.83	60.35	1.52	1.48	97	0.00	0	VW	EW	
60.35	61.87	1.52	1.34	88	0.00	0	VW	EW	
61.87	63.40	1.53	1.40	92	0.00	0	VW	EW	
63.40	64.92	1.52	1.40	92	0.00	0	EW	EW	
64.92	66.45	1.53	1.00	65	0.00	0	VW	EW	
66.45	67.97	1.52	0.86	57	0.71	47	MS	MW	
67.97	69.49	1.52	1.28	84	0.68	45	MS	MW	
69.49	71.02	1.53	0.86	56	0.30	20	MS	MW	
71.02	72.54	1.52	1.43	94	1.18	78	MS	SW	

GEOLOGY LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
	72.54	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-63

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)		Comments
3.86	5.00	1.14	0.38	33	H885327	5.0	58	<0.01	0.02	199	0.91		
5.00	7.01	2.01	0.48	24	H885328	1.0	58	0.72	1.07	24900	31.60		
7.01	8.53	1.52	0.95	63	H885329	3.0	58	0.33	0.27	9000	17.85		
8.53	11.58	3.05	2.10	69	H885331	6.0	58	2.35	0.83	22400	388.00		
11.58	13.11	1.53	0.98	64	H885332	3.0	58	1.06	2.92	25600	59.80		
13.11	14.63	1.52	0.76	50	H885334	3.0	58	0.11	1.87	17800	15.05		
14.63	17.68	3.05	1.35	44	H885335	6.0	58	0.02	0.06	918	2.09		
17.68	20.73	3.05	2.45	80	H885336	8.5	58	0.02	0.07	924	5.83		
20.73	21.79	1.06	0.75	71	H885337	3.0	59	<0.01	0.11	294	1.31		
21.79	23.77	1.98	1.93	97	H885338	7.5	59	0.45	0.65	7170	150.50		
23.77	26.82	3.05	2.18	71	H885339	8.5	59	0.14	1.93	1660	30.30		
26.82	29.87	3.05	2.48	81	H885341	10.5	59	<0.01	0.11	374	1.12		
29.87	32.92	3.05	0.51	17	H885342	2.0	59	0.27	0.75	1580	10.15		
32.92	35.97	3.05	2.10	69	H885343	8.0	59	0.18	0.39	9820	12.60		
35.97	39.01	3.04	1.62	53	H885344	4.5	59	1.61	0.43	9300	178.50		
39.01	42.06	3.05	1.17	38	H885345	3.5	59	1.07	1.97	5830	358.00		
42.06	43.59	1.53	0.67	44	H885347	2.0	59	0.56	2.76	15200	232.00		
43.59	45.94	2.35	2.35	100	H885348	6.0	59	0.91	1.12	10500	111.00		
45.94	48.16	2.22	2.17	98	H885349	8.0	59	0.01	0.04	655	14.85		
48.16	49.68	1.52	0.60	39	H885350	2.0	59	21.00	0.28	30900	583.00		
49.68	51.76	2.08	1.24	60	H885351	4.0	59	8.83	0.42	245000	728.00		
51.76	53.05	1.29	1.18	91	H885352	4.0	59	6.65	0.20	96200	281.00		
53.05	54.25	1.20	0.97	81	H885353	3.0	59	3.62	0.33	96600	294.00		
54.25	55.78	1.53	1.12	73	H885354	4.0	59	0.51	0.52	5410	57.80		
55.78	57.30	1.52	1.20	79	H885355	3.0	59	4.62	0.73	39300	55.00		
57.30	58.83	1.53	1.35	88	H885356	3.0	59	1.33	0.44	30500	684.00		
58.83	60.35	1.52	1.52	100	H885357	3.5	59	0.14	0.73	35500	286.00		
60.35	61.87	1.52	1.36	89	H885359	5.0	59	0.07	0.47	24400	108.50		
61.87	63.40	1.53	1.53	100	H885360	4.5	59	0.18	0.60	27500	14.65		
63.40	64.92	1.52	1.47	97	H885361	1.5	59	0.20	0.87	26100	12.65		
64.92	66.45	1.53	0.90	59	H885362	2.5	59	0.10	0.45	23500	11.55		
66.45	67.97	1.52	0.83	55	H885364	3.0	59	0.02	0.05	2390	0.55		

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
67.97	69.49	1.52	1.27	84	H885365	3.5	59	0.01	<0.01	182	0.41	
69.49	71.02	1.53	0.79	52	H885366	3.0	59	0.02	0.10	2450	0.23	
71.02	72.54	1.52	1.41	93	H885367	5.5	59	0.02	0.01	118	0.35	
-	-	-			H885330	0.3	58	0.52	0.82	6020	105.50	Standard R-1
-	-	-			H885333	4.0	58	0.01	0.01	95	0.52	Blank
-	-	-			H885340	0.3	59	5.49	0.23	42000	479.00	Standard R-3
-	-	-			H885346	4.0	59	<0.01	0.01	141	0.25	Blank
58.83	60.35	1.52	1.52	100	H885358	2.5	59	0.09	0.56	35900	314.00	Duplicate
-	-	-			H885363	4.0	59	0.01	0.08	267	1.08	Blank
-	-	-			H885368	0.3	59	5.18	0.16	38900	469.00	Standard R-3

BOX DENSITY LOG

HOLE: Rau-09-63

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
2	9.90	14.63	6.12	OX	RBL	2.56	36.0	2.17	Rubbly oxide
11	57.77	61.69	6.12	OX	RBL	3.58	47.0	2.02	Rubbly oxide
12	61.69	66.15	6.12	OX	RBL	3.48	50.0	2.22	Rubbly oxide

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-63

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
3.86	DOL	ALT	1.04	
4.00	DOL	ALT	0.30	
5.00	DOL	ALT	0.21	
6.00	OX	CLY	0.38	
7.00	OX	CLY	0.30	
8.00	OX	RBL	0.16	
9.00	OX	RBL	0.36	
10.00	OX	RBL	0.28	
11.00	OX	RBL	0.45	
12.00	OX	RBL	1.09	
13.00	OX	RBL	0.78	
14.00	OX	RBL	0.73	
15.00	LST	ALT	0.13	
16.00	LST	ALT	0.13	
17.00	LST	ALT	0.33	
18.00	LST	ALT	0.36	
19.00	LST	ALT	0.15	
20.00	LST	ALT	0.11	
21.00	LST	ALT	0.15	
22.00	DOL	CR	0.33	
23.00	DOL	CR	0.31	
24.00	DOL	CR	0.38	
25.00	DOL	CR	0.30	
26.00	DOL	CR	0.16	
27.00	LST		0.08	
28.00	LST		0.38	
29.00	LST		0.26	
30.00	LST		N/A	No recovery
31.00	LST		0.25	
32.00	LST		0.05	
33.00	LST		0.11	
34.00	LST		0.23	
35.00	LST		0.20	
36.00	OX	RBL	0.80	
37.00	OX	RBL	0.15	
38.00	OX	RBL	0.77	
39.00	OX	RBL	0.58	
40.00	OX	RBL	0.18	
41.00	OX	RBL	0.18	
42.00	OX	RBL	0.50	
43.00	OX	RBL	0.48	
44.00	OX	RBL	0.47	
45.00	OX	RBL	0.53	
46.00	LST	ALT	0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	LST	ALT	0.11	
48.00	LST	ALT	0.08	
49.00	LST	ALT	0.26	
50.00	OX	SID	1.17	
51.00	OX	SID	1.07	
52.00	OX	SID	0.62	
53.00	OX	SID	1.02	
54.00	OX	SID	0.77	
55.00	DOL	ALT	0.85	
56.00	OX	RBL	0.87	
57.00	OX	RBL	0.45	
58.00	OX	RBL	0.72	
59.00	OX	RBL	0.57	
60.00	OX	RBL	0.53	
61.00	OX	RBL	0.67	
62.00	OX	RBL	0.50	
63.00	OX	RBL	0.67	
64.00	OX	RBL	0.80	
65.00	OX	RBL	0.63	
66.00	OX	RBL	10.40	
67.00	MBL		0.00	
68.00	MBL		0.05	
69.00	MBL		0.01	
70.00	MBL		0.40	
71.00	MBL		0.00	
72.00	MBL		0.00	

BOX LOG

HOLE: Rau-09-63

BOX	FROM (m)	TO (m)
1.00	3.86	9.90
2.00	9.90	14.63
3.00	14.63	20.15
4.00	20.15	24.56
5.00	24.56	29.35
6.00	29.35	36.42
7.00	36.42	43.59
8.00	43.59	47.75
9.00	47.75	53.05
10.00	53.05	57.77
11.00	57.77	61.69
12.00	61.69	66.15
13.00	66.15	71.88
14.00	71.88	72.54
	72.54	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+120NW

HOLE: Rau-09-63
CLAIM: Rau54

Easting	Northing	Elev.	Depth (m)
528573.3	7719275	1313.4	441.97

Contractor: Superior
Drill: Oxide 3

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: NQ
Casing depth: 9.14 m out

Drilling dates: Sept 8-13, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	5.60	5.60	OVB	
5.60	66.69	61.09	LST	
66.69	68.60	1.91	DOL	Altered
68.60	113.40	44.80	LST	
113.40	115.93	2.53	MBL	
115.93	129.51	13.58	VOL	Altered
129.51	137.31	7.80	VOL	Magnetite conglomerate
137.31	172.72	35.41	VOL	Variable altered
172.72	179.54	6.82	QV	
179.54	194.25	14.71	LST	
194.25	211.8	17.55	PY	
211.8	216.41	4.61	VOL	
216.41	219.25	2.84	LST	
219.25	227.36	8.11	DOL	
227.36	258.48	31.12	LST	
258.48	441.96	183.48	LST	With significant volcaniclastic intervals.

SAMPLES

Numbers: H885398-408, H885419-433, H885460-481 H885498-500, G284151-168, H284188-212, G284220-240, G284264-285, G284306, Batch 60-67
Total: 138
Date sent:
Certificate: VA09104227, VA09104226, VA09107519, VA09105683, VA09107516, VA09105682, VA09107517, VA09107518,

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-64

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	5.60	5.60	OVB																			Limestone fragments (overburden)
5.60	66.69	61.09	LST		BX																	Slightly crackled to heavily brecciated dark to medium grey fairly dolomitized limestone. 5-20% Ca flood. Interbedded regions of slightly yellowish-tan alteration occur along with some rusty alteration on fractures. The increased alteration is generally associated with increased Ca flood.
						FO	50															10 m: Banded brecciated limestone. Ca/limestone bands with some 'mystery mineral' dark black shiny stubby lath like.
						FO	40															
																						20.00-23.00 m: Bleached slightly orangey tan colour, increased Qz/Carbonate flood (up to 20%) containing small muscovite flakes.
															t							39-50.50 m: Another orangey-tan bleached zone with some Py and rusty mineralization, with prominent, crosscutting, 0.3-2 cm ca/doll veinlets.
						FO	60															41 m: Foliation occurs 60 deg to CA. Thin veinlets cut at 40 deg to CA and at 180 deg to the foliation.
						VN	40	180														43.85 m: Massive vein of pyrite, 3cm thick is quite broken up and tarnished black in zones.
															w							47.75-50.50 m: Especially bleached zone with increased concentration of Py, generally confined to veinlets but also occurs as isolated blebs. An orangey oxidation stain coats the limestone in the vicinity of the pyrite rich zones. Ca veinlets crosscut at several angles, and flood into the limestone as well as flooding it causing brecciation.
						BD	60															50.50 m: The limestone is now a lighter grey colour with thin dark grey stylolites defining banding at 60 deg to CA.
																						52.75 m: One patch of soft, dark green, flaky chlorite/talc? alteration.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	60								t							54-66.36 m: the brecciation and calcite flood becomes less dominant, and is replaced by foliated grey limestone. Minor Ca veinlets still occur along with the addition of crackle brecciation and camo-mottled regions. Trace Py blebs and minor muscovite flakes occurs in some regions. The mystery black elongate needle/lath mineral occurs in weak concentration. Calcite veinlets cut at 25 and 50 deg to Ca. Some chlorite alteration occurs around these areas.
						VN	25															
						VN	50															
																						64.30-66.36 m: Increased brecciation and calcite flood.
66.69	68.60	1.91	DOL	ALT	VN	FO	40						SID	m								Siderite altered dolomite vein. It is quite vuggy with open space filling textures. The dolomite is a mixture of 50% white to yellow dolomite crystals and 50% medium to dark brown siderite. The one s very vuggy, with one cavity that is 3 cm deep. Some banding occurs at 40-45 deg to CA. The bottom contact is at 65 deg, which seems to match the foliation of the underlying limestone. Within the vein, some veinlets cut at opposing angles, particularly later white ca veinlets. Coliform patterns also occur within.
						CN	65															
68.60	107.50	38.90	LST		BX	FO	60								t							Grey, variable brecciated limestone which is at times moderately foliated at 60 deg to CA, ranging between 40-60 deg. 10-15% Qz/Ca flood occurs, and it is often associated w/ the mystery black lath mineral. Trace coarse grained Py occurs in veins. Weak yellow staining occurs on fractures.
						FO	60															
																						77 m: Black stylolites occur at 60 deg to CA.
																						84 m: 3 cm Diameter coral mound fragments occur within.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						97.54-99.14 m: Strong brecciation and Ca flood. After this point, brecciation and flood start to disappear towards lower contact.
																						91-92 m: a few small <1cm crinoid fragments occur within.
107.50	113.40	5.90	LST		FO	FO	60								w		t					Transition zone of banded and or marbleised limestone, alternating with layers of coarse grained calcite crystals and finer grey (silty?) laminations. Minor slightly pinkish layers occur. Py and Po occur as foliaform stringers and blebs, and some disseminated clumps. This interval is quite well-foliated throughout.
																						110.20-111.55 m: More coarse-grained, calcite rich regions
113.40	115.93	2.53	MBL		FO	FO	50			f					t							Light grey marble, mainly massive in texture with wispy, foliaform and slightly stylolitic stringers of beige/light brown sericite +/- Py.
115.93	129.51	13.58	VOL	ALT		FO	50						Cl	w	t		t					Uniform, medium to dark greyish-green foliated volcaniclastic with 5-10% Ca flood veinlets often at random orientations but mainly following the foliation. Minor associated chlorite alteration. Very small, elongate Ca blebs scattered throughout. Trace Py, Po and Mag. Moderately magnetic throughout. Foliation varies between 40 and 60 deg to CA. Several prominent Ca veinlets3-5 cm thick occur and have a weak pinkish tinge.
																						128-129 m: Start seeing a tan-yellowish tinge, and more deformation. The calcite veinlets occur more commonly in a crackled style.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
129.51	137.31	7.80	VOL		CON	FO	50								t			Mag	m			Magnetite volcaniclastic conglomerate (with some interbedded VOL). Vol clasts up to 10 cm in diameter, rounded, and somewhat deformed, with a magnetite-rich matrix and some magnetite clasts. Entire package has been subject to deformation, with elongation of clasts, and foliation at roughly 50 deg to CA. The clasts are generally light tan-beige with darker greyish-green matrix. Some clasts have slight pinkish tinge. The interval is strongly magnetic throughout. Towards bottom of interval, some more vague grain boundaries and patchwork texture occur. After 136 m, the distinct clasts no longer occur and there is a slow transition into foliated, deformed, patchy, less magnetic volcaniclastic unit.
						VN	25	55														136.50 m: A calcite with minor chlorite and trace hematite vein that is 1 cm thin and irregular in form cross cuts the foliation at 25 deg to CA.
137.31	156.95	19.64	VOL																			Back to greyish-green, foliated volcaniclastic with stretched calcite amygdules.
						FO	60															140.15-140.70 m: Interval of white calcite matrix with 50% clasts of feathery, lath like clusters of a dark green mineral (actinolite?). This continues until 143 m when it gradually fades out. It is sometimes associated with a fairly bright red mineral/alteration on calcite veinlets and associated chlorite (?) alteration. Within this interval the volcaniclastic has returned to its dark greyish green form with 5% calcite veinlets and a fair concentration of small amygdules. Towards last metre, colour starts to change to light greyish green

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
156.95	161.95	5.00	VOL	ALT		FO	60								w							Light greyish-green and greyish-pink altered volcaniclastic, well foliated and almost sheared looking with increased heavily disseminated Py patches. Sericite stringers occur throughout along foliations at 60 deg to CA. Trace bright green fuchsite spots occur. Towards 161.95 m, the foliation lowers to 40 deg to CA.
161.95	172.72	10.77	VOL			FO	60								f							Mixture of volcanic layers and Qz/DOL flood +/- Py, sericite, muscovite, chlorite, and limestone. These minerals occur sporadically with unclear relationships. Qz veins containing pyrite occur and seem to parallel the foliation at 50-65 deg to CA. Pyrite occurs as heavy disseminations and stringers on margins of Qz Dol veins/flood (+/- muscovite) as well as more coarse disseminations throughout volcaniclastic layers.
																						161.95-168.95m Interbedded VOL with Qz/Carb veins that parallel the foliation.
															m							168.95-171.79 m: Light grey, fairly massive, slightly fizzy, bleached limestone. Some crosscutting calcite veinlets occur with associated talc. Fine grained disseminated pyrite occurs throughout the interval in moderate concentration.
															ms							171.79-172.72 m: Dark grey to black, calcite rich calcareous silty limestone (?) with blebs and elongate patches of Py. The lower contact is sharp at 60 deg to CA.
172.72	179.54	6.82	QV			FO	60								ms							Vein(?) zone of dolomite and quartz, with significant brecciation and pyrite mineralization. Pyrite occurs as coarse blebs and finer patches, as well as semi-massive regions.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						172.72-175.43 m: Primarily dolomite, some rhodochrosite? (pink/red tinged) and minor orange alteration on fractures. The unit is still slightly foliated at ~ 60 deg to CA. Minor crackle brecciation occur with pyrite in the matrix. Several small (<5cm) semi-massive patches of Py occur.
															ms							175.43-176.60 m: Quartz, with large sporadic patches of Py, Ca and muscovite. Weak chlorite alteration occurs on the contacts between the pyrite and the quartz.
															s							176.60-177.92 m: Medium grained dolomite zone with minor red alteration and strong patchy pyrite replacement. The pyrite becomes nearly massive in a few places.
															s							177.92-179.54 m: Quartz vein breccia zone. Pure white quartz appears to be variably crackle brecciated with soft brown, non-calcareous matrix. Strong pyrite mineralization, seemingly unrelated to brecciation. Patches of pyrite up to 5 cm in diameter occur scattered throughout core, in both matrix and clasts.
																						178.30-178.50 m: Fractured zone of quartz fragments (<2cm) with minor yellow staining. The bottom contact is irregular but runs semi-parallel to the limestone.
179.54	185.44	5.90	LST			FO	60								f							Relatively unaltered, foliated grey limestone, with 15-20% irregular quartz carbonate flood in thick vein sections up to 10 cm wide, with irregular lightly to heavily disseminated pyrite throughout.
																						182.88-184.40 m: Especially Qz/DOL flooded zone, with yellow/white flaky muscovite crystals concentrated along contact.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
185.44	194.25	8.81	LST												25							Mixture of brecciated, altered LST (60%), Qz (15%), and Py (25%). Variable Py mineralization, from weak disseminations/stringers in LST, to pure Qz, to semi-massive and massive sections of medium-grained pyrite. Interval ends w/15cm of 60deg brownish grey, banded LST(?)
194.25	211.80	17.55	PY			VN	25								95					Sp	t	Massive pyrite, at least 95%. Up to 199 m, there is 5% white quartz, but this disappears after this, leaving only 1% Ca and a few small patches of what looks like black, foliated siltstone(?) to break up the massive pyrite. Also trace red sphalerite, concentrated along rare thin crosscutting calcite veinlets.
						FO	55								98			Sp	w			199 m: 98% Py, with medium to coarse grains, a few small patches of quartz, and black sphalerite as blebs between pyrite grains and associated with small calcite veinlets. Up to 1 cm in size. The bottom contact transitions into foliated/banded Py at 55 deg to the CA.
211.80	216.41	4.61	VOL												s							Foliated, pyrite rich, very fine-grained, slightly greasy, light to medium grey volcaniclastic? Only slightly calcareous. Pyrite is present throughout as coarse bands at the top, and large patches and foliaform disseminations throughout.
																						215.15-216.41 m: Soft, clay gouge zone of what appears to be the above rock type. Brecciation has cut through at 20 deg, with unaltered rock on one side and brecciated clay gouge on other (+Py grains).
216.41	219.25	2.84	LST	ALT											f							Unusual unit of pinkish grey, gritty LST? Quite calcareous, with strong chlorite alteration on all fractures. Crumbly bluish green on fractures. Unit is quite fractured, foliated, and crackled, with pyrite disseminated throughout.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
219.25	227.36	8.11	DOL												ms							A mixture of crystalline dolomite and strongly dolomitized limestone. It is strongly crackled, with 10% Py as foliaform concentrations and coarse disseminations throughout. Overall texture defined by coarse dolomite grains (usually 0.5 cm in diameter), with distinct grain boundaries. A few small regions/beds of black silt/shale occur, especially from 219.80-220.20 m where the foliation is 30 deg. There is no distinct foliation within the dolomite.
227.36	258.48	31.12	LST	ALT	BX	FO	50		m						w			Sp	t			After 227.36 m, the unit becomes more of a variably dolomitized limestone, with foliation present at 50 deg to the CA. 10-20% Ca/DOL vein flood occurs giving strong patterns of brecciation banding. Trace Sp (red) in late calcite veinlets.
															f							234-235 m: Stronger disseminations of Py.
															w			Sp	t			242.10-243.10 m: Strongly brecciated zone cuts across core at 20 deg. The clasts are generally less than 0.5 cm.
															w			Sp	t			243.10-247.40m Very broken up (1-4cm chunks). Fault or breccia zone?)
																		Sp	t			247.40-249.70 m: Competent gritty limestone? With trace Sp and some yellowish-green alteration on fractures.
															w	t		Sp	t			249.70-252.40 m: Start seeing As as small clumps and dissemination zones. Some lighter grey, irregular sericite? Stringers as well. Up to 3 mm coarse deep red sphalerite along fractures at 20-35 deg to CA.
						FO	50								w			Sp	t			From 252.40 m, the limestone is less dolomitized/brecciated, and more foliated at 50 deg to CA. Mineralization drops off to trace Py/Sp, with no Asp. Sp occurs as blebs in thin, foliaform Ca veinlets.
															t							254.35-255.55 m: Crumbly zone with no real fragments >0.5cm.
															w							255.55-258.48 m: Slightly more vuggy, with increased disseminated Py.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
258.48	297.38	38.90	VOL												w					Sp	t	Fine-grained, pale grey to pinkish grey, greenish-grey, and dark grey well foliated, pyritic volcaniclastic (or siltstone?). The unit is weakly to non-calcareous, with a low angle foliations ranging between 15-40 deg to CA.. Trace fine grained red sphalerite occurs on fractures.
						FO	40															259 m: FO is at 40 deg to CA.
						FO	20															261-281 m: FO is at 20 deg to CA.
						FO	15															282 m: FO is at 15 deg to CA.
						FO	30															283 m: FO is at 30 deg to CA.
																						269-270 m: Darker grey interval that looks more likes slightly more like dolomitized limestone but has the same general characteristics as above.
																						280.37-281.31 m: Chlorite altered, darker green interval.
																						289.56-292.61 m: Increased patchy maroon alteration section with minor weak chlorite alteration. Ca sweats and thin veinlets are common.
															w					Sp	w	292.71-297.38 m: Increased Sp content, generally associated with blebs and stringer veinlets of Ca. Pyrite occurs in thin disseminations.
						FO	45															296.55 m: Foliation occurs at 45 deg to CA. Prominent oblique 2-4 cm thick veinlet, at 20 deg to CA and 90 deg to the foliation.
																				Sp	w	Dominantly calcite, white and grey, with a central region of light blue, translucent, slightly tabular mineral. Appears to fizz, and may be blue calcite?. Contact between this and outer grey Ca has sphalerite beads along it. Sphalerite present throughout.
						FO	20															290 m: FO is at 20 deg to CA.
						FO	30															291 m: FO is at 30 deg to CA.
						FO	40															296 m: FO is at 40 deg to CA.
297.38	298.15	0.77	LST	MX	FO										30							Intensely mineralized disseminated pyrite zone within dark grey limestone. The contact with the upper unit is at 40 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
298.15	322.10	23.95	LST		BX										t					Sp	t	Strongly crackle brecciated light to medium grey limestone with lighter grey clasts and thin black/grey crackle lines. There is no obvious foliation. The interval is quite fractured to rubbly. Trace Sp occurs on a couple fractures, with only trace disseminated pyrite.
					CR																	308.50 m: Some weak green Cl alteration associated near the pyrite.
																						305.65-306.10 m, and 307.85-308.75 m: Fragment/rubble zones. Some darker grey regions nearby.
						VN)	50								t					Sp	t	316.49-319.49 m: More competent bleached brown interval with foliaform stringers and veinlets of pyrite. Trace red sphalerite occurs.
322.10	323.09	0.99	VOL			FO	70															Foliated, light to medium grey volcaniclastic horizon. With trace Sp/Py.
																						319-321 m: Minor graphitic fractures, some that show movement.
																						309-310 m: Darker grey area that was weakly silicified.
323.09	441.96	118.87	LST		CR										t					Sp	t	Same light grey crackle brecciated limestone with dark grey crackles. Overall the interval is not very calcareous, and is variably fractured and brecciated with trace Py/Sp (on fractured and associated with veinlets). The unit is quite uniform over tens of metres.
															50							350.55-351.20 m: Suddenly get semi-massive pyrite mineralized section with 50% Py (and trace Sp) occurring as fine to medium-grained disseminations and semi-massive patches. Mineralization starts and drops off abruptly.
						VN	15															352 m: Calcite veinlets at 15 deg to CA with some cross cutting at 30 deg to CA.
						VN	30															After 354 m, the unit becomes more competent and less fractured.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	45								15							357.56-357.90 m: Dolomite vein crosscuts core at 45 deg to CA. The vein itself has only minor Py, but a 10 cm zone of around 50 % disseminated Py exists on upper contact, with minor Py stringers on the lower contact.
															w		t					357.90-363 m: Start seeing very trace Po as small blebs and a few other patchy local Py zones throughout.
																						363-364 m: More brecciated (smaller clasts) with prominent dark grey colour, with a few spots of local chlorite alteration.
						FO	30															365 m: Weak foliation at 30 deg to CA.
															s							369.80-370.45 m: Slightly increased dolomite flood, with associated increase in pyritization in heavily disseminated bands.
																						372-376 m: Some clast and small bands of dark grey/black siltstone with graphitic fractures in these areas. Whole region very brecciated and deformed.
						VN	90								s							386.60-387.50m Slight increase in Py mineralization, but the rock otherwise same, except for one 1-2 cm wide, soft, greenish-white talc veinlet at 90 deg to CA.
															t					Sp	t	391-392 m: Weakly foliated with thin black stylolites. By this point, only trace Py and very rare, almost non existent sphalerite.
						VN	45															392-413 m: Common crosscutting Ca veins <1cm thick, every 0.3-1 m. Graphitic fractures are somewhat common, especially in more crackled areas.
															f							413.00-413.50 m: Slightly increased Py in conjunction with increased black siltstone clasts/stringers.
						FO	50													Sp	t	413.50 m: occasional trace Sp in low angle, often irregular fractures Weak foliation occurs at 50 deg to CA.
						VN	45															417-419 m: Very low (<5%) fracture irregularly cuts core axis. Blebs of Sp along it. Ca veinlets every 2-3 cm cut at 45 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						420 m: 3-5 Fractures at 35 deg to CA with minor yellowish-grey alteration on them.
													MBL	w								426-441.50 m: Slightly lighter grey colour with a slightly mineralized look.
						VN	30													Sp	t	441.50 m: 2 cm Qz veinlets crosscuts at 30 deg, with silicification of the surrounding rock. A few blebs Sp.
																						441.96 m: E.O.H.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-64

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
4.70	6.10	1.40	1.40	100	0.15	11	MS	SW	
6.10	9.14	3.04	2.47	81	1.52	50	MS	FR	
9.14	12.19	3.05	3.05	100	3.05	100	MS	FR	
12.19	15.24	3.05	3.05	100	2.52	83	MS	FR	
15.24	18.29	3.05	2.92	96	2.70	89	MS	FR	
18.29	21.34	3.05	2.60	85	2.18	71	MS	SW	
21.34	24.38	3.04	2.33	77	1.62	53	MS	SW	
24.38	27.43	3.05	2.97	97	1.48	49	MS	FR	
27.43	30.48	3.05	2.97	97	2.40	79	MS	FR	
30.48	33.53	3.05	2.88	94	2.20	72	MS	FR	
33.53	36.58	3.05	3.05	100	2.35	77	MS	FR	
36.58	39.62	3.04	2.20	72	1.43	47	MS	SW	
39.62	42.67	3.05	2.85	93	2.17	71	MS	SW	
42.67	45.72	3.05	2.88	94	2.53	83	MS	SW	
45.72	48.77	3.05	3.00	98	2.49	82	MS	SW	
48.77	51.82	3.05	2.94	96	2.41	79	MS	SW	
51.82	54.86	3.04	3.04	100	3.00	99	MS	FR	
54.86	57.91	3.05	2.88	94	2.45	80	MS	FR	
57.91	60.96	3.05	3.01	99	2.71	89	MS	FR	
60.96	64.01	3.05	3.05	100	2.60	85	MS	FR	
64.01	67.06	3.05	2.99	98	2.67	88	MS	SW	
67.06	70.10	3.04	2.90	95	2.48	82	MS	HW	
70.10	73.15	3.05	2.89	95	1.63	53	MS	SW	
73.15	76.20	3.05	2.75	90	1.68	55	MS	FR	
76.20	79.25	3.05	2.80	92	1.82	60	MS	FR	
79.25	82.30	3.05	2.73	90	1.88	62	MS	FR	
82.30	85.34	3.04	2.86	94	1.40	46	MS	FR	
85.34	88.39	3.05	2.77	91	1.55	51	MS	FR	
88.39	91.44	3.05	3.04	100	2.67	88	MS	FR	
91.44	94.49	3.05	3.05	100	2.31	76	MS	FR	
94.49	97.54	3.05	2.95	97	2.82	92	MS	FR	
97.54	100.58	3.04	3.04	100	3.04	100	MS	FR	
100.58	103.63	3.05	3.03	99	2.94	96	MS	FR	
103.63	106.68	3.05	2.88	94	2.38	78	MS	FR	
106.68	109.73	3.05	3.04	100	2.88	94	MS	FR	
109.73	112.78	3.05	3.05	100	2.72	89	MS	FR	
112.78	115.82	3.04	3.04	100	3.01	99	MS	FR	
115.82	118.87	3.05	3.05	100	2.98	98	MS	FR	
118.87	121.92	3.05	3.05	100	2.88	94	MS	FR	
121.92	124.97	3.05	2.96	97	2.96	97	MS	FR	
124.97	128.02	3.05	3.05	100	2.60	85	MS	FR	
128.02	131.06	3.04	3.00	99	2.30	76	S	FR	
131.06	134.11	3.05	3.02	99	2.69	88	MS	FR	
134.11	140.21	6.10	6.10	100	5.97	98	MS	FR	Drillers missed a block.
140.21	143.26	3.05	2.90	95	2.24	73	MS	FR	
143.26	146.30	3.04	3.04	100	2.90	95	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
146.30	149.35	3.05	3.05	100	2.32	76	MS	FR	
149.35	152.40	3.05	3.05	100	2.32	76	MS	FR	
152.40	155.45	3.05	3.05	100	2.95	97	MS	FR	
155.45	158.50	3.05	3.00	98	2.80	92	MS	FR	
158.50	161.54	3.04	2.97	98	0.90	30	MS	FR	
161.54	164.69	3.15	3.04	97	2.69	85	MS	FR	
164.69	167.64	2.95	2.95	100	2.97	101	MS	FR	
167.64	170.69	3.05	3.05	100	2.74	90	MS	FR	
170.69	173.74	3.05	2.97	97	2.35	77	MS	SW	
173.74	176.78	3.04	3.04	100	2.54	84	MS	SW	
176.78	179.83	3.05	2.74	90	2.30	75	MS	SW	
179.83	182.88	3.05	3.02	99	3.02	99	MS	FR	
182.88	185.93	3.05	3.03	99	2.84	93	MS	FR	
185.93	188.98	3.05	3.05	100	3.01	99	MS	FR	
188.98	192.02	3.04	3.04	100	2.95	97	MS	FR	
192.02	195.07	3.05	3.01	99	3.01	99	MS	FR	
195.07	198.12	3.05	3.03	99	2.97	97	MS	FR	
198.12	201.17	3.05	3.05	100	3.05	100	MS	FR	
201.17	204.22	3.05	2.85	93	2.27	74	MS	FR	
204.22	207.26	3.04	2.32	76	1.75	58	MS	FR	
207.26	210.31	3.05	2.98	98	2.54	83	MS	FR	
210.31	213.36	3.05	3.02	99	2.57	84	W	FR	
213.36	216.41	3.05	2.71	89	2.08	68	W	FR	
216.41	219.46	3.05	2.06	68	0.34	11	MS	FR	Fault-like, very clayey.
219.46	222.50	3.04	3.04	100	1.73	57	MS	FR	
222.50	225.55	3.05	3.05	100	2.47	81	MS	FR	
225.55	228.60	3.05	2.89	95	2.47	81	MS	FR	
228.60	231.65	3.05	3.05	100	2.66	87	MS	FR	
231.65	234.70	3.05	2.74	90	1.48	49	MS	FR	
234.70	237.74	3.04	3.00	99	2.46	81	MS	FR	
237.74	240.79	3.05	3.00	98	1.42	47	MS	FR	
240.79	243.84	3.05	2.78	91	1.63	53	MS	FR	
243.84	246.89	3.05	1.70	56	0.15	5	MS	FR	
246.89	249.94	3.05	2.47	81	0.91	30	MS	FR	
249.94	252.98	3.04	2.92	96	2.15	71	MS	FR	
252.98	256.03	3.05	2.45	80	1.17	38	MS	FR	
256.03	259.08	3.05	2.85	93	1.35	44	MS	FR	
259.08	262.13	3.05	1.90	62	0.62	20	W	FR	
262.13	265.18	3.05	0.57	19	0.00	0	VW	FR	Very clayey, disintegrated rock.
265.18	268.22	3.04	1.75	58	0.00	0	W	FR	
268.22	271.27	3.05	2.78	91	0.70	23	MS	FR	
271.27	274.32	3.05	2.65	87	0.56	18	MS	FR	
274.32	277.37	3.05	3.02	99	2.22	73	MS	FR	
277.37	280.42	3.05	2.68	88	1.12	37	W	FR	
280.42	283.46	3.04	2.90	95	1.75	58	S	FR	
283.46	286.51	3.05	2.72	89	1.71	56	MS	FR	
286.51	289.56	3.05	2.65	87	0.90	30	W	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
289.56	292.61	3.05	2.96	97	1.87	61	MS	FR	
292.61	295.66	3.05	2.53	83	0.48	16	W	FR	
295.66	298.70	3.04	2.80	92	1.25	41	MS	FR	
298.70	301.75	3.05	2.95	97	1.92	63	MS	FR	
301.75	304.80	3.05	2.93	96	2.34	77	MS	FR	
304.80	307.85	3.05	3.05	100	2.33	76	MS	FR	
307.85	310.90	3.05	2.43	80	1.18	39	MS	FR	
310.90	313.94	3.04	2.50	82	0.71	23	MS	FR	
313.94	316.99	3.05	2.75	90	1.00	33	MS	FR	
316.99	320.04	3.05	2.75	90	1.40	46	MS	FR	
320.04	323.09	3.05	2.54	83	0.79	26	MS	FR	
323.09	326.14	3.05	2.05	67	0.64	21	MS	FR	
326.14	329.18	3.04	2.78	91	1.46	48	MS	FR	
329.18	332.23	3.05	2.55	84	0.88	29	MS	FR	
332.23	335.28	3.05	1.90	62	0.37	12	MS	FR	
335.28	338.33	3.05	2.40	79	0.00	0	MS	FR	
338.33	341.38	3.05	2.74	90	0.76	25	MS	FR	
341.38	344.42	3.04	2.92	96	1.54	51	MS	FR	
344.42	347.47	3.05	2.77	91	1.22	40	MS	FR	
347.47	350.52	3.05	2.63	86	1.13	37	MS	FR	
350.52	353.57	3.05	2.80	92	1.57	51	W	FR	
353.57	356.62	3.05	2.57	84	1.82	60	MS	FR	
356.62	359.66	3.04	3.04	100	2.86	94	MS	FR	
359.66	362.71	3.05	3.05	100	2.95	97	MS	FR	
362.71	365.76	3.05	3.05	100	2.80	92	MS	FR	
365.76	368.81	3.05	2.93	96	2.03	67	MS	FR	
368.81	371.86	3.05	2.97	97	2.30	75	MS	FR	
371.86	374.90	3.04	3.02	99	3.00	99	MS	FR	
374.90	377.95	3.05	3.00	98	2.78	91	MS	FR	
377.95	381.00	3.05	3.01	99	2.64	87	MS	FR	
381.00	384.05	3.05	2.91	95	2.45	80	MS	FR	
384.05	387.10	3.05	3.00	98	2.98	98	MS	FR	
387.10	390.14	3.04	3.00	99	2.58	85	MS	FR	
390.14	393.19	3.05	3.04	100	2.98	98	MS	FR	
393.19	396.24	3.05	3.04	100	3.04	100	MS	FR	
396.24	399.29	3.05	3.01	99	3.01	99	MS	FR	
399.29	402.34	3.05	3.03	99	2.60	85	MS	FR	
402.34	405.38	3.04	2.98	98	2.40	79	MS	FR	
405.38	408.43	3.05	2.95	97	2.37	78	MS	FR	
408.43	411.48	3.05	2.98	98	2.56	84	MS	FR	
411.48	414.53	3.05	3.00	98	2.54	83	MS	FR	
414.53	417.58	3.05	3.01	99	2.29	75	MS	FR	
417.58	420.62	3.04	2.90	95	0.50	16	MS	FR	
420.62	423.67	3.05	3.00	98	1.41	46	MS	FR	
423.67	426.72	3.05	3.04	100	2.20	72	MS	FR	
426.72	429.77	3.05	2.93	96	2.20	72	MS	FR	
429.77	432.82	3.05	3.01	99	2.90	95	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
432.82	435.86	3.04	3.04	100	2.75	90	MS	FR	
435.86	438.91	3.05	2.92	96	2.29	75	MS	FR	
438.91	441.96	3.05	3.03	99	2.92	96	MS	FR	
	441.96	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-64

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
37.66	39.62	1.96	1.20	61	H885398	5.0	60	<0.01	0.15	25	0.87	
39.62	42.67	3.05	2.85	93	H885399	7.0	60	<0.01	0.32	<5	0.18	
42.67	45.72	3.05	2.88	94	H885400	7.5	60	<0.01	0.10	6	1.12	
45.72	48.77	3.05	3.00	98	H885402	8.0	60	<0.01	0.06	9	1.57	
48.77	50.47	1.70	1.55	91	H885403	5.0	60	<0.01	0.08	13	2.07	
50.47	51.82	1.35	1.35	100	H885404	4.0	60	<0.01	0.21	<5	10.30	
65.62	66.69	1.07	1.07	100	H885405	3.0	60	0.01	0.17	35	1.68	
66.69	68.60	1.91	1.18	62	H885407	4.5	60	0.01	1.95	95	7.32	
68.60	70.83	2.23	2.14	96	H885408	5.0	60	0.04	0.45	43	9.13	
104.97	107.50	2.53	2.42	96	H885419	7.0	61	0.03	0.18	95	4.52	
107.50	110.20	2.70	2.70	100	H885420	7.5	61	4.43	0.17	119	822.00	
110.20	111.55	1.35	1.35	100	H885421	5.0	61	2.51	0.27	85	281.00	
111.55	113.40	1.85	1.85	100	H885422	5.0	61	0.01	0.06	27	3.12	
113.40	115.93	2.53	2.53	100	H885423	8.0	61	<0.01	0.08	18	0.23	
115.93	118.87	2.94	2.94	100	H885424	5.0	61	<0.01	0.08	7	0.16	
118.87	121.92	3.05	3.05	100	H885426	9.0	61	<0.01	0.03	<5	0.06	
121.92	124.97	3.05	2.97	97	H885427	9.0	61	<0.01	0.01	<5	0.06	
124.97	128.02	3.05	3.05	100	H885428	9.0	61	<0.01	0.03	7	0.07	
128.02	131.06	3.04	3.00	99	H885429	9.0	61	<0.01	0.14	8	0.33	
131.06	134.11	3.05	3.02	99	H885431	10.0	61	0.01	0.27	6	0.44	
134.11	137.11	3.00	2.91	97	H885432	9.5	61	<0.01	0.01	8	0.29	
137.11	140.21	3.10	3.10	100	H885433	5.0	61	<0.01	<0.01	8	0.13	
140.21	143.26	3.05	2.90	95	H885460	12.5	62	<0.01	0.05	9	0.24	
143.26	146.30	3.04	3.04	100	H885461	9.0	62	<0.01	0.07	4	0.12	
146.30	149.35	3.05	3.05	100	H885462	9.0	62	<0.01	0.06	3	0.18	
149.35	152.40	3.05	3.05	100	H885463	9.0	62	<0.01	0.05	10	0.10	
152.40	155.45	3.05	3.05	100	H885464	9.0	62	<0.01	0.01	5	0.10	
155.45	156.95	1.50	1.50	100	H885465	4.5	62	<0.01	0.04	33	1.31	
156.95	159.45	2.50	2.50	100	H885466	7.5	62	<0.01	0.09	163	6.75	
159.45	161.95	2.50	2.46	98	H885467	7.5	62	0.01	0.15	72	5.29	
161.95	164.59	2.64	2.62	99	H885468	7.5	62	<0.01	0.14	80	11.80	
164.59	167.08	2.49	2.46	99	H885470	7.5	62	0.03	0.29	285	28.30	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
167.08	168.95	1.87	1.78	95	H885471	6.5	62	0.02	0.27	193	97.00	
168.95	171.79	2.84	2.84	100	H885472	7.5	62	<0.01	0.13	104	17.50	
171.79	172.72	0.93	0.93	100	H885473	3.5	62	0.03	0.31	108	19.00	
172.72	175.43	2.71	2.62	97	H885474	8.0	62	0.01	0.15	403	26.10	
175.43	176.60	1.17	1.17	100	H885475	3.5	62	0.04	0.10	260	35.40	
176.60	177.92	1.32	1.29	98	H885476	4.5	62	0.09	0.17	1580	104.00	
177.92	179.54	1.62	1.30	80	H885477	5.0	62	0.03	0.11	1170	67.20	
179.54	182.88	3.34	3.28	98	H885479	9.5	62	0.01	0.23	60	11.65	
182.88	185.44	2.56	2.48	97	H885480	7.5	62	0.02	0.21	180	21.50	
185.44	187.44	2.00	2.00	100	H885481	7.5	63	0.06	7.25	1050	360.00	
187.44	189.40	1.96	1.96	100	H885498	7.5	63	0.07	1.37	902	534.00	
189.40	192.02	2.62	2.62	100	H885499	9.5	63	0.07	1.65	1075	299.00	
192.02	194.25	2.23	2.19	98	H885500	6.5	63	0.04	0.45	571	81.30	
194.25	196.18	1.93	1.93	100	G284151	8.0	63	0.10	6.25	904	498.00	
196.18	198.12	1.94	1.92	99	G284152	8.0	63	0.35	13.65	2570	786.00	
198.12	201.17	3.05	3.05	100	G284153	13.5	63	0.24	18.90	1665	702.00	
201.17	204.22	3.05	2.91	95	G284155	13.0	63	0.17	16.90	1410	741.00	
204.22	207.26	3.04	2.45	81	G284156	10.0	63	0.16	4.78	1725	423.00	
207.26	210.31	3.05	3.00	98	G284157	14.0	63	0.25	2.11	1740	510.00	
210.31	211.80	1.49	1.49	100	G284158	7.0	63	0.16	3.03	1250	844.00	
211.80	213.36	1.56	1.49	96	G284160	5.0	63	0.01	0.22	187	28.30	
213.36	215.15	1.79	1.79	100	G284161	6.0	63	0.02	0.18	199	285.00	
215.15	216.41	1.26	0.92	73	G284162	3.0	63	<0.01	0.10	83	7.56	
216.41	219.25	2.84	2.00	70	G284163	5.5	63	<0.01	0.10	24	3.12	
219.25	222.50	3.25	3.22	99	G284164	11.0	63	2.60	0.51	1140	155.50	
222.50	225.55	3.05	3.01	99	G284165	9.0	63	0.07	0.38	400	89.40	
225.55	227.36	1.81	1.78	98	G284167	5.5	64	0.06	0.38	340	34.30	
227.36	230.10	2.74	2.55	93	G284168	7.5	64	0.02	0.15	55	2.51	
230.10	231.65	1.55	1.55	100	G284188	5.0	64	0.02	0.18	161	1.79	
231.65	234.70	3.05	2.74	90	G284189	9.0	64	0.02	0.26	283	3.63	
234.70	237.74	3.04	3.00	99	G284190	11.0	64	0.03	0.44	303	14.95	
237.74	240.79	3.05	3.00	98	G284191	9.0	64	0.09	2.22	180	9.91	
240.79	243.84	3.05	2.78	91	G284192	8.0	64	0.04	0.91	70	2.27	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
243.84	246.89	3.05	1.70	56	G284193	7.0	64	0.02	2.22	154	4.32	
246.89	249.70	2.81	2.40	85	G284194	8.0	64	0.03	3.01	280	7.21	
249.70	252.40	2.70	2.63	97	G284195	10.0	64	1.37	3.53	24900	46.80	
252.40	254.35	1.95	1.87	96	G284197	6.0	64	0.01	0.81	287	1.56	
254.35	255.55	1.20	0.97	81	G284198	10.5	64	0.01	1.19	392	1.08	
255.55	258.48	2.93	2.87	98	G284199	8.5	64	0.01	1.16	112	0.72	
258.48	260.00	1.52	1.12	74	G284201	6.0	64	<0.01	0.85	162	0.84	
260.00	262.13	2.13	1.31	62	G284202	3.5	64	<0.01	0.65	90	1.03	
262.13	265.18	3.05	0.57	19	G284203	2.5	65	0.01	3.43	110	0.74	
265.18	268.22	3.04	1.75	58	G284204	5.5	65	<0.01	2.23	120	0.87	
268.22	271.27	3.05	2.78	91	G284205	9.0	65	0.01	1.60	39	0.09	
271.27	274.32	3.05	2.65	87	G284206	9.0	65	<0.01	1.22	54	0.17	
274.32	277.37	3.05	3.02	99	G284208	9.0	65	<0.01	0.92	36	0.20	
277.37	280.42	3.05	2.68	88	G284209	8.0	65	<0.01	0.54	30	0.19	
280.42	281.31	0.89	0.89	100	G284210	3.5	65	0.01	0.07	33	0.06	
281.31	283.46	2.15	2.00	93	G284211	5.5	65	<0.01	0.43	77	0.04	
283.46	286.51	3.05	2.72	89	G284212	7.5	65	<0.01	0.37	80	0.02	
286.51	289.56	3.05	2.65	87	G284220	9.0	65	<0.01	0.07	13	0.10	
289.56	292.61	3.05	2.96	97	G284221	8.0	65	<0.01	0.31	63	0.07	
292.61	295.66	3.05	2.53	83	G284222	8.0	65	<0.01	2.37	150	1.65	
295.66	297.38	1.72	1.70	99	G284224	5.0	65	0.02	3.09	135	4.04	
297.38	298.15	0.77	0.77	100	G284225	2.0	65	0.12	1.72	1535	295.00	
298.15	301.75	3.60	3.55	99	G284226	10.5	65	<0.01	0.17	23	1.44	
301.75	304.80	3.05	2.93	96	G284227	8.5	65	0.01	0.17	9	0.72	
304.80	307.85	3.05	3.05	100	G284228	8.5	65	<0.01	0.15	30	1.84	
307.85	310.90	3.05	2.43	80	G284229	6.0	65	<0.01	0.15	29	2.01	
310.90	313.94	3.04	2.50	82	G284230	8.5	65	0.01	2.24	194	11.70	
313.94	316.49	2.55	2.55	100	G284231	7.0	65	0.03	3.85	220	19.60	
316.49	317.65	1.16	1.16	100	G284232	4.0	65	0.18	0.55	142	12.75	
317.65	320.04	2.39	2.26	95	G284234	6.5	65	0.16	5.39	181	20.40	
320.04	322.10	2.06	1.54	75	G284235	5.5	65	0.07	6.13	55	8.73	
322.10	323.09	0.99	0.99	100	G284236	3.0	65	0.01	1.95	40	0.50	
323.09	326.14	3.05	2.05	67	G284238	6.5	65	<0.01	0.33	23	0.55	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
326.14	329.18	3.04	2.78	91	G284239	8.0	66	<0.01	0.52	11	2.26	
329.18	332.23	3.05	2.55	84	G284240	8.0	66	<0.01	0.21	33	0.57	
332.23	335.28	3.05	1.90	62	G284264	7.5	66	0.01	0.10	56	0.90	
335.28	338.33	3.05	2.40	79	G284265	8.5	66	<0.01	0.11	24	0.26	
338.33	341.38	3.05	2.74	90	G284266	8.0	66	<0.01	0.40	23	1.13	
341.38	344.42	3.04	2.92	96	G284267	8.5	66	<0.01	0.11	5	0.07	
344.42	347.47	3.05	2.77	91	G284269	9.5	66	<0.01	0.45	33	1.07	
347.47	350.52	3.05	2.63	86	G284270	8.5	66	<0.01	0.21	39	1.30	
350.52	351.10	0.58	0.58	100	G284271	2.5	66	0.66	2.61	3300	101.50	
351.10	353.57	2.47	2.22	90	G284272	6.5	66	0.01	0.39	555	1.31	
353.57	356.62	3.05	2.57	84	G284273	8.0	66	<0.01	0.26	69	4.67	
356.62	359.66	3.04	3.04	100	G284274		66	0.01	0.28	99	70.80	
359.66	362.71	3.05	3.05	100	G284275	8.0	67	<0.01	0.15	9	2.18	
362.71	365.76	3.05	3.05	100	G284276	9.0	67	0.01	0.07	32	1.84	
365.76	368.81	3.05	2.93	96	G284277	8.5	67	0.05	0.05	9	1.27	
368.81	371.86	3.05	2.97	97	G284278	8.5	67	0.01	0.14	95	37.50	
371.86	374.90	3.04	3.02	99	G284280	8.5	67	<0.01	0.10	40	2.61	
374.90	377.95	3.05	3.00	98	G284281	8.0	67	<0.01	0.09	58	0.69	
377.95	381.00	3.05	3.01	99	G284282	9.0	67	<0.01	0.15	63	3.03	
381.00	384.05	3.05	2.91	95	G284283	8.0	67	<0.01	0.10	37	0.80	
384.05	387.50	3.45	3.40	99	G284285	9.5	67	0.07	0.13	331	71.60	
387.50	390.14	2.64	2.60	98	G284306	8.0	67	<0.01	0.14	80	5.10	
-	-	-			H885401	4.0	60	<0.01	<0.01	<5	0.06	Blank
-	-	-			H885406	0.3	60	5.77	0.18	41800	467.00	Standard R-3
115.93	118.87	2.94	2.96	101	H885425	4.0	61	<0.01	0.08	14	0.18	Duplicate
-	-	-			H885430	0.3	61	5.84	0.25	43500	518.00	Standard R-3
-	-	-			H885469	0.3	62	1.70	1.86	20200	344.00	Standard R-2
-	-	-			H885478	4.0	62	<0.01	<0.01	12	0.48	Blank
-	-	-			G284154	0.3	63	0.57	0.90	4570	95.20	Standard R-3
-	-	-			G284159	4.0	63	<0.01	0.03	12	2.43	Blank
222.50	225.55	3.05	3.01	99	G284166	4.5	63	0.48	0.41	352	88.70	Duplicate
-	-	-			G284196	4.0	64	<0.01	0.04	97	0.39	Blank

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			G284200	0.3	64	6.02	0.27	14100	464.00	Standard R-3
-	-	-			G284207	4.0	65	<0.01	0.09	<5	<0.01	Blank
-	-	-			G284223	0.3	65	5.35	0.21	24900	463.00	Standard R-3
-	-	-			G284233	4.0	65	<0.01	0.13	7	0.69	Blank
-	-	-			G284237	0.3	65	0.47	0.88	5770	100.50	Standard R-1
341.38	344.42	3.04	2.92	96	G284268	4.0	66	<0.01	0.07	5	0.09	Duplicate
-	-	-			G284279	0.3	67	1.51	1.70	26500	332.00	Standard R-2
381.00	384.05	3.05	2.91	95	G284284	4.0	67	0.01	0.13	54	0.95	Duplicate

BOX DENSITY LOG

HOLE: Rau-09-64

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
36	200.80	206.99	5.08	PY		5.36	109.0	4.55	
37	206.99	212.76	5.08	PY		5.69	109.0	4.29	Last 1 m is siltstone with Py

DENSITY LOG

HOLE: Rau-09-64

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
148.00	VOL			14.8	5.1	865.8	558.4	2.89	2.82
157.95			quartz-carbonate vein	15.4	5.1	880.8	577.1	2.82	2.90
167.20	VOL	ALT		14.7	5.1	833.6	548.2	2.80	2.92
195.71			massive pyrite ~95%	14.7	5.1	1334.5	1030.2	4.48	4.39
213.55	SLT			14.5	5.1	871.5	575.0	2.97	2.94
225.99	DOL			14.0	5.1	913.1	625.6	3.22	3.18

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-64

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.70	OVB		0.05	
5.00	OVB		0.34	
6.00	LST		0.05	
7.00	LST		0.03	
8.00	LST		0.14	
9.00	LST		0.03	
10.00	LST		0.03	
11.00	LST		0.01	
12.00	LST		0.18	
13.00	LST		0.01	
14.00	LST		0.09	
15.00	LST		0.05	
16.00	LST		0.01	
17.00	LST		0.03	
18.00	LST		0.01	
19.00	LST		0.01	
20.00	LST		0.09	
21.00	LST		0.03	
22.00	LST		0.03	
23.00	LST		0.01	
24.00	LST		0.01	
25.00	LST		0.01	
26.00	LST		0.12	
27.00	LST		0.05	
28.00	LST		0.01	
29.00	LST		0.01	
30.00	LST		0.01	
31.00	LST		0.03	
32.00	LST		0.23	
33.00	LST		0.10	
34.00	LST		0.40	
35.00	LST		0.01	
36.00	LST		0.03	
37.00	LST		0.14	
38.00	LST		0.16	
39.00	LST		0.60	
40.00	LST		0.45	
41.00	LST		0.06	
42.00	LST		0.07	
43.00	LST		0.20	
44.00	LST		0.07	
45.00	LST		0.07	
46.00	LST		0.05	
47.00	LST		0.39	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
48.00	LST		0.53	
49.00	LST		0.20	
50.00	LST		0.10	
51.00	LST		0.05	
52.00	LST		0.03	
53.00	LST		0.03	
54.00	LST		0.10	
55.00	LST		0.03	
56.00	LST		0.09	
57.00	LST		0.03	
58.00	LST		0.07	
59.00	LST		0.01	
60.00	LST		0.45	
61.00	LST		0.14	
62.00	LST		0.01	
63.00	LST		0.09	
64.00	LST		0.01	
65.00	LST		0.14	
66.00	LST		0.32	
67.00	DOL	ALT	0.95	
68.00	DOL	ALT	0.87	
69.00	LST		0.09	
70.00	LST		0.31	
71.00	LST		0.07	
72.00	LST		0.34	
73.00	LST		0.01	
74.00	LST		0.01	
75.00	LST		0.01	
76.00	LST		0.01	
77.00	LST		0.03	
78.00	LST		0.01	
79.00	LST		0.05	
80.00	LST		0.03	
81.00	LST		0.01	
82.00	LST		0.01	
83.00	LST		0.01	
84.00	LST		0.10	
85.00	LST		0.01	
86.00	LST		0.03	
87.00	LST		0.07	
88.00	LST		0.00	
89.00	LST		0.09	
90.00	LST		0.14	
91.00	LST		0.00	
92.00	LST		0.03	
93.00	LST		0.07	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
94.00	LST		0.03	
95.00	LST		0.03	
96.00	LST		0.01	
97.00	LST		0.01	
98.00	LST		0.10	
99.00	LST		0.03	
100.00	LST		0.12	
101.00	LST		0.05	
102.00	LST		0.05	
103.00	LST		0.01	
104.00	LST		0.05	
105.00	LST		0.03	
106.00	LST		0.07	
107.00	LST		1.39	
108.00	LST		31.00	
109.00	LST		4.75	
110.00	LST		7.19	
111.00	LST		5.38	
112.00	LST		0.21	
113.00	LST		0.40	
114.00	MBL		0.12	
115.00	MBL		0.34	
116.00	VOL	ALT	0.45	
117.00	VOL	ALT	1.17	
118.00	VOL	ALT	0.89	
119.00	VOL	ALT	125.00	
120.00	VOL	ALT	32.50	
121.00	VOL	ALT	38.80	
122.00	VOL	ALT	0.89	
123.00	VOL	ALT	34.60	
124.00	VOL	ALT	64.20	
125.00	VOL	ALT	33.20	
126.00	VOL	ALT	82.40	
127.00	VOL	ALT	60.40	
128.00	VOL	ALT	121.00	
129.00	VOL	ALT	77.90	
130.00	VOL	CGL	370.00	
131.00	VOL	CGL	369.00	
132.00	VOL	CGL	353.00	
133.00	VOL	CGL	137.00	
134.00	VOL	CGL	342.00	
135.00	VOL	CGL	126.00	
136.00	VOL	CGL	211.00	
137.00	VOL	CGL	152.00	
138.00	VOL		109.00	
139.00	VOL		0.43	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
140.00	VOL		0.56	
141.00	VOL		0.43	
142.00	VOL		1.22	
143.00	VOL		73.10	
144.00	VOL		74.00	
145.00	VOL		0.89	
146.00	VOL		1.86	
147.00	VOL		0.69	
148.00	VOL		1.18	
149.00	VOL		0.78	
150.00	VOL		1.20	
151.00	VOL		2.21	
152.00	VOL		8.74	
153.00	VOL		0.82	
154.00	VOL		0.65	
155.00	VOL		1.11	
156.00	VOL		0.80	
157.00	VOL	ALT	0.27	
158.00	VOL	ALT	2.08	
159.00	VOL	ALT	1.42	
160.00	VOL	ALT	0.16	
161.00	VOL	ALT	0.05	
162.00	VOL		0.27	
163.00	VOL		0.09	
164.00	VOL		0.54	
165.00	VOL		0.27	
166.00	VOL		0.27	
167.00	VOL		0.67	
168.00	VOL		0.31	
169.00	VOL		0.25	
170.00	VOL		0.09	
171.00	VOL		0.51	
172.00	VOL		0.12	
173.00	QZ		0.34	
174.00	QZ		0.31	
175.00	QZ		0.12	
176.00	QZ		0.03	
177.00	QZ		0.14	
178.00	QZ		0.09	
179.00	QZ		0.29	
180.00	LST		0.10	
181.00	LST		0.09	
182.00	LST		0.09	
183.00	LST		0.27	
184.00	LST		0.36	
185.00	LST		0.23	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
186.00	LST		0.07	
187.00	LST		0.07	
188.00	LST		0.10	
189.00	LST		0.09	
190.00	LST		0.36	
191.00	LST		0.10	
192.00	LST		0.12	
193.00	LST		0.12	
194.00	LST		0.25	
195.00	PY		0.18	
196.00	PY		0.14	
197.00	PY		0.12	
198.00	PY		0.09	
199.00	PY		0.05	
200.00	PY		0.21	
201.00	PY		0.09	
202.00	PY		0.09	
203.00	PY		0.20	
204.00	PY		0.07	
205.00	PY		0.12	
206.00	PY		0.36	
207.00	PY		0.47	
208.00	PY		0.43	
209.00	PY		0.34	
210.00	PY		0.07	
211.00	PY		0.07	
212.00	VOL		0.12	
213.00	VOL		0.14	
214.00	VOL		0.10	
215.00	VOL		0.75	
216.00	VOL		0.42	
217.00	LST	ALT	0.42	
218.00	LST	ALT	0.31	
219.00	LST	ALT	0.21	
220.00	DOL		0.07	
221.00	DOL		0.18	
222.00	DOL		0.34	
223.00	DOL		0.60	
224.00	DOL		0.40	
225.00	DOL		0.71	
226.00	DOL		10.70	
227.00	DOL		3.34	
228.00	LST	ALT	0.05	
229.00	LST	ALT	0.14	
230.00	LST	ALT	0.10	
231.00	LST	ALT	0.14	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
232.00	LST	ALT	0.07	
233.00	LST	ALT	0.07	
234.00	LST	ALT	0.20	
235.00	LST	ALT	0.40	
236.00	LST	ALT	0.09	
237.00	LST	ALT	0.43	
238.00	LST	ALT	0.38	
239.00	LST	ALT	0.12	
240.00	LST	ALT	0.18	
241.00	LST	ALT	0.51	
242.00	LST	ALT	0.54	
243.00	LST	ALT	0.12	
244.00	LST	ALT	0.20	
245.00	LST	ALT	0.32	
246.00	LST	ALT	0.38	
247.00	LST	ALT	0.36	
248.00	LST	ALT	0.67	
249.00	LST	ALT	0.34	
250.00	LST	ALT	0.43	
251.00	LST	ALT	0.43	
252.00	LST	ALT	0.45	
253.00	LST	ALT	0.31	
254.00	LST	ALT	0.36	
255.00	LST	ALT	0.14	
256.00	LST	ALT	0.29	
257.00	LST	ALT	0.36	
258.00	LST	ALT	0.32	
259.00	VOL		0.10	
260.00	VOL		0.64	
261.00	VOL		0.29	
262.00	VOL		0.16	
263.00	VOL		0.69	
264.00	VOL		0.10	
265.00	VOL		0.36	
266.00	VOL		0.16	
267.00	VOL		0.12	
268.00	VOL		0.20	
269.00	VOL		0.54	
270.00	VOL		0.16	
271.00	VOL		0.45	
272.00	VOL		0.40	
273.00	VOL		0.38	
274.00	VOL		0.47	
275.00	VOL		0.34	
276.00	VOL		0.40	
277.00	VOL		0.54	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
278.00	VOL		0.84	
279.00	VOL		0.76	
280.00	VOL		0.53	
281.00	VOL		1.04	
282.00	VOL		0.25	
283.00	VOL		0.38	
284.00	VOL		0.27	
285.00	VOL		0.23	
286.00	VOL		0.10	
287.00	VOL		0.42	
288.00	VOL		0.16	
289.00	VOL		0.12	
290.00	VOL		1.11	
291.00	VOL		0.29	
292.00	VOL		0.27	
293.00	VOL		0.51	
294.00	VOL		0.25	
295.00	VOL		0.25	
296.00	VOL		0.36	
297.00	VOL		0.36	
298.00	LST	MX	0.71	
299.00	LST		0.03	
300.00	LST		0.01	
301.00	LST		0.03	
302.00	LST		0.76	
303.00	LST		0.03	
304.00	LST		0.45	
305.00	LST		0.07	
306.00	LST		0.03	
307.00	LST		0.07	
308.00	LST		0.07	
309.00	LST		0.05	
310.00	LST		0.07	
311.00	LST		0.03	
312.00	LST		0.03	
313.00	LST		0.12	
314.00	LST		0.14	
315.00	LST		0.09	
316.00	LST		0.10	
317.00	LST		0.71	
318.00	LST		0.07	
319.00	LST		0.10	
320.00	LST		0.31	
321.00	LST		0.43	
322.00	LST		0.42	
323.00	VOL		0.16	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
324.00	LST		0.03	
325.00	LST		0.23	
326.00	LST		0.03	
327.00	LST		0.16	
328.00	LST		0.07	
329.00	LST		0.09	
330.00	LST		0.21	
331.00	LST		0.03	
332.00	LST		0.01	
333.00	LST		0.01	
334.00	LST		1.50	
335.00	LST		0.12	
336.00	LST		0.03	
337.00	LST		0.01	
338.00	LST		0.49	
339.00	LST		0.03	
340.00	LST		0.10	
341.00	LST		0.60	
342.00	LST		0.03	
343.00	LST		0.09	
344.00	LST		0.07	
345.00	LST		0.07	
346.00	LST		0.05	
347.00	LST		0.07	
348.00	LST		0.09	
349.00	LST		0.32	
350.00	LST		0.16	
351.00	LST		0.62	
352.00	LST		0.07	
353.00	LST		0.09	
354.00	LST		0.09	
355.00	LST		0.03	
356.00	LST		0.05	
357.00	LST		0.42	
358.00	LST		1.70	
359.00	LST		0.89	
360.00	LST		0.18	
361.00	LST		0.07	
362.00	LST		1.04	
363.00	LST		0.09	
364.00	LST		0.67	
365.00	LST		0.03	
366.00	LST		0.09	
367.00	LST		0.71	
368.00	LST		0.05	
369.00	LST		0.25	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
370.00	LST		0.20	
371.00	LST		0.29	
372.00	LST		0.09	
373.00	LST		0.12	
374.00	LST		0.10	
375.00	LST		0.14	
376.00	LST		0.09	
377.00	LST		0.16	
378.00	LST		0.05	
379.00	LST		0.27	
380.00	LST		0.09	
381.00	LST		0.09	
382.00	LST		0.12	
383.00	LST		0.40	
384.00	LST		0.23	
385.00	LST		0.01	
386.00	LST		0.05	
387.00	LST		0.05	
388.00	LST		0.09	
389.00	LST		0.01	
390.00	LST		0.01	
391.00	LST		0.01	
392.00	LST		0.47	
393.00	LST		0.05	
394.00	LST		0.05	
395.00	LST		0.76	
396.00	LST		0.05	
397.00	LST		0.10	
398.00	LST		0.09	
399.00	LST		0.27	
400.00	LST		0.05	
401.00	LST		0.09	
402.00	LST		0.09	
403.00	LST		0.09	
404.00	LST		0.45	
405.00	LST		0.03	
406.00	LST		0.18	
407.00	LST		0.07	
408.00	LST		0.05	
409.00	LST		0.25	
410.00	LST		0.03	
411.00	LST		0.05	
412.00	LST		0.20	
413.00	LST		0.05	
414.00	LST		0.40	
415.00	LST		0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
416.00	LST		0.09	
417.00	LST		0.05	
418.00	LST		0.09	
419.00	LST		0.05	
420.00	LST		0.10	
421.00	LST		0.07	
422.00	LST		0.03	
423.00	LST		0.07	
424.00	LST		0.20	
425.00	LST		0.16	
426.00	LST		0.56	
427.00	LST		0.12	
428.00	LST		0.62	
429.00	LST		0.01	
430.00	LST		0.01	
431.00	LST		0.40	
432.00	LST		0.16	
433.00	LST		0.05	
434.00	LST		0.21	
435.00	LST		0.03	
436.00	LST		0.03	
437.00	LST		0.64	
438.00	LST		0.07	
439.00	LST		0.10	
440.00	LST		0.09	
441.00	LST		0.03	

BOX LOG

HOLE: Rau-09-64

BOX	FROM (m)	TO (m)
1	4.70	9.85
2	9.85	15.24
3	15.24	20.72
4	20.72	26.54
5	26.54	32.00
6	32.00	37.66
7	37.66	43.50
8	43.50	49.12
9	49.12	54.69
10	54.69	60.23
11	60.23	65.62
12	65.62	70.83
13	70.83	76.60
14	76.60	82.38
15	82.38	88.11
16	88.11	93.55
17	93.55	99.14
18	99.14	104.97
19	104.97	110.74
20	110.74	116.34
21	116.34	122.04
22	122.04	127.90
23	127.90	133.42
24	133.42	138.97
25	138.97	144.56
26	144.56	150.08
27	150.08	155.63
28	155.63	161.31
29	161.31	167.08
30	167.08	172.70
31	172.70	177.92
32	177.92	183.70
33	183.70	189.40
34	189.40	195.07
35	195.07	200.08
36	200.80	206.99
37	206.99	212.76
38	212.76	219.10
39	219.10	224.45
40	224.45	230.10
41	230.10	235.72
42	235.72	241.31
43	241.31	247.48
44	247.48	253.15
45	253.15	258.70
46	258.70	265.45
47	265.45	270.98

BOX	FROM (m)	TO (m)
48	270.98	276.26
49	276.26	281.61
50	281.61	287.16
51	287.16	292.71
52	292.71	298.08
53	298.08	303.70
54	303.70	309.18
55	309.18	314.15
56	314.15	319.20
57	319.20	324.45
58	324.45	330.10
59	330.10	334.98
60	334.98	339.23
61	339.23	344.42
62	344.42	349.84
63	349.84	354.71
64	354.71	360.60
65	360.60	366.36
66	366.36	372.02
67	370.02	376.86
68	376.86	383.72
69	383.72	387.10
70	387.10	392.80
71	392.80	398.50
72	398.50	404.05
73	404.05	409.82
74	409.82	415.44
75	415.44	420.62
76	420.62	426.00
77	426.00	431.97
78	431.97	437.87
79	437.87	441.96
	441.96	E.O.H.

RAU PROJECT

ZONE: Tiger
SECTION: 09+895 NW

HOLE: Rau-09-65
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528609	7118999	1295	156.36

Contractor: Superior
Drill: Scout

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-50	compass				

Core size: HQ
Casing depth: 10.69 (m) out

Drilling dates: Sept 8-13, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	3.06	3.06	OVE	
3.09	16.15	13.06	LST	Siderite altered
16.15	22.63	6.48	LST	Dolomitized
22.63	53.71	31.08	LST	
53.71	74.07	20.36	LST	
74.07	75.59	1.52	VOL	
75.59	98.13	22.54	OX	Rubbly
98.13	100.6	2.47	MBL	
100.6	152.11	51.51	OX	Rubbly with volcaniclastic intervals.
152.11	156.36	4.25	MBL	

SAMPLES	
Numbers:	H885409-418, H885434-436, H885482-497
	G284169-187, G284241-263, G284307-308
Total:	73 Batches 61, 63, 64, 66, 67
Date sent:	
Certificate:	VA09104226, VA09105683, VA09107516,
	VA09107517, VA09107518

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-65

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	3.09	3.09	OVB																			
3.09	16.15	13.06	LST		BX																	Medium grey limestone with fluid collapse brecciated texture created by medium grained dolomite. The interval is moderately rubbly with some orange brown coatings on the fractures.
16.15	22.63	6.48	LST	ALT									SID	ms								Mixture of orange-red-brown oxide with rubble and silvery-yellow mica flakes and strongly altered limestone.
																						16.15-17.68 m: Poorly recovered medium brown calcareous soupy clay.
																						17.68-19.41 m: Medium to dark orange-red-brown sideritic rubble.
																						19.41-22.63 m: Very strongly altered limestone (fizzes slightly with HCL). Dark grey-green-brown in colour with very faint patchy texture for the top 30 cm. Fractured surfaces have a bright orange-brown oxide stain on them.
22.63	53.71	31.08	LST	ALT	BX				f													Medium grey weakly to strongly brecciated fairly dolomitized limestone with rubbly zones and zones with hematite alteration on fractures.
									m													22.63-24.60 m: Medium grey dolomitized limestone brecciated by medium grey dolomite veins. Fractures have an orange-red-brown alteration on them.
																						23.10-23.40 m: Strongly oxidized red-orange-brown altered rubbly zone with yellow mica flakes within.
																						24.60-25.48 m: The first half is a medium taupe-brown gritty calcareous clay zone. The second half is a rubbly strongly hematite altered limestone.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
									w													25.48-36.18 m: Medium grey moderately blocky and rubbly moderately brecciated weakly dolomitized limestone with patches of fair hematite alteration and a siderite fragment 4 cm long at 32.32 m. Trace pyrite occurs as fine grained disseminations. Much of the breccia (30% of the interval overall) has angular to subangular clasts.
																						36.18-53.71 m: Increase in the concentration of fine grained disseminated pyrite as well as an increase in the intensity of the brecciation.
53.71	74.07	20.36	LST	ALT																		Weakly to strongly altered limestone with zones of coarse grained dolomite. The dolomite zones seem more consistently altered to a light orange tint.
																						53.71-54.58 m: Moderately altered limestone with bright orange coating on fractured surfaces.
																						54.58-56.85 m: Extremely altered limestone fizzes strongly with HCL. The unit is dark brown-grey in colour and slightly softer than a finger nail. There is a weakly hematite colouration to some of the pieces.
															t							56.85-61.51 m: Moderately altered creamy dolomite with patches of grey dolomite. Trace small patches of pyrite.
						FR	30								w	t						61.51-74.07 m: Mainly grey dolomitized limestone with zones that have weak peachy-orange alteration tint. Pyrite occurs weakly throughout the unit as weak very fine grained disseminations throughout and as patches up to 1 cm in diameter. Trace arsenopyrite occurs as fine to medium grained subhedral crystals. A fracture set runs through the interval at 30 deg to CA, associated with which the alteration seems most pronounced. At 66.45 m the concentration of quartz patches up to 4 cm in diameter increases. At 68.30 m the core starts to become quite fractured up and rubbly.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
74.07	75.59	1.52	VOL	ALT																		Light yellowish-greenish-grey strongly altered fissile volcaniclastic, almost turned completely to clay.
75.59	98.13	22.54	OX	RBL																		75.59-83.21 m: Reddish orange-brown crumbly gritty oxide clay. In zones it has a two tone colouration with dark brown crumbly spots within the orange-red-brown clay. Scattered throughout there are weakly concentrated small yellow-silver mica flakes.
																						83.21-89.31 m: Bright orange very uniform packed clay with pockets concentrated in yellowy silver mica flakes. This material is interzoned with medium to dark brown gritty rubbly oxide fragments. (COLOUR 10YR 6/8 - brownish-yellow and COLOUR 7.5 YR 3/3 - dark brown).
			VOL			FO	30															At 87.78 m the altered volcaniclastic is quite intact with a FO at 60 deg to CA. OVERALL: 65% ALT VOL, 35% OX
																						89.31-95.40 m: Medium to dark orange-red-brown oxide and very dark brown oxide mixed with a zone of moderately altered mineralization medium grained dolomite. This dolomite zone exists from 92.35-93.23 m. It contains 1-3% medium to coarse grained euhedral (cubic) pyrite crystals. The remainder of the interval is quite rubbly.
																						95.40-98.13 m: Very dark red-brown sideritic oxide. The zone is very incompetent crumbling very easily when a small amount of pressure is exerted. (COLOUR 5YR 2.5/1 - black)
			VOL			FO	60															96.82-97.07 m: A small green grey brown zone (volcaniclastic??) with a FO at 60 deg to CA. (COLOUR: 5Y 4/3 - yellow)
						CN	30															The lower contact of the entire unit is extremely sharp at 30 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
98.13	100.60	2.47	MBL		BN	BD	40															Pure white sugary marble with faint impure bands (1-4 mm) occurring at 40 deg to CA. The upper contact with the oxide rubble is very sharp at 30 deg to CA. Fractured surfaces have faint orange-brown colouration on them.
100.60	152.11	51.51	OX	RBL																		Very dark red-brown siderite rubble with minor coatings of medium orange-brown clay. Rubble fragments are quite vuggy and are on average 2 cm in diameter. (COLOUR 5YR 2.5/2 - dark reddish brown).
			VOL			FO	40															104.92-105.35 m: Zone of fissile strongly altered volcaniclastic (??) Medium orange-brown in colour. The FO runs at 40 deg to CA. (COLOUR 10YR 5/6 - yellowish brown)
			VOL			FO	50															111.05-112.95 m: Medium to dark yellow-orange brown more competent slightly fissile possibly altered volcaniclastic. It does not have the typical bright yellow extremely fissile texture that the altered volcaniclastic typically has. The weak foliation occurs at 50 deg to CA.
																						112.95-114.85 m: Dark red-brown crumbly sideritic oxide. (COLOUR 5YR 2.5/2 - dark reddish brown).
			VOL			FR	60															114.85-116.74 m: Slightly fissile highly fractured altered volcaniclastic(?) with a light yellow colour on the cores surface, and a medium to very dark alteration coating on some fractures. Fractures occur at 60 deg to CA.
																						116.74-118.28 m: Medium to dark reddish-brown rubbly sideritic oxide. (COLOUR 5YR 3/3 - dark reddish brown).
																						118.28 m: NOTE! There is a ~ 70 cm section of medium brown soupy clay. This material fell into the hole from above and was not sampled.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						18.28-135.49 m: Mixture of medium to very dark reddish-brown sideritic oxide rubble. On the cored surface there is a bright to medium orange-brown clay coating. When the core is more competent it has a vuggy surface. 50% of the interval is extremely rubbly, while 50% is moderately competent and vuggy. On some of the vuggy surfaces there is bright orange-brown oxide coating.
																						At 129.05 m: there is a 4 cm fragment of limestone.
																						135.49-144.17 m: Mixed dolomitized limestone and dolomite, and dark reddish brown rubbly vuggy sideritic oxide. The dolomite contains fine grained disseminated pyrite. 30% dolomite, 70% oxide rubbly.
						BD	60															144.17-152.11 m: Moderately altered slightly yellowish/orange tinted medium grained dolomite. Fair concentration of disseminated Py bands occurring at 60 deg to CA. The bands are typically 1-3 mm thick.
															60							150.20-150.67 m: there is a zone of semi-massive banded pyrite.
152.11	156.36	4.25	MBL																			152.11-154.33 m: Banded weakly marbleized limestone with bedding running at 50 deg to CA.
																						153.64-153.75 m: There is a band of red-brown slightly vuggy oxide. There is a contact on one of the fragments from oxide to limestone at 75 deg to CA. This fragment is believed to be in place.
																						154.33-156.36 m: White marble with light grey bands at 55 deg to CA
																						156.36 m: E.O.H. - the hole was ended because it was into the marble, and out of the zone of interest.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-65

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.09	3.96	0.87	0.87	100	0.24	28	MS	SW	
3.96	5.49	1.53	0.45	29	0.20	13	MS	SW	
5.49	7.01	1.52	0.48	32	0.15	10	MS	SW	
7.01	8.53	1.52	0.30	20	0.00	0	MS	SW	
8.53	10.06	1.53	0.39	25	0.00	0	MS	SW	
10.06	11.58	1.52	0.65	43	0.23	15	MS	SW	
11.58	13.11	1.53	0.08	5	0.00	0	MS	SW	
13.11	14.63	1.52	0.45	30	0.00	0	MS	SW	
14.63	16.15	1.52	0.19	13	0.10	7	MS	SW	
16.15	17.68	1.53	0.05	3	0.00	0	EW	EW	
17.68	19.20	1.52	0.25	16	0.00	0	EW	EW	
19.20	20.73	1.53	1.05	69	0.70	46	MS	HW	
20.73	22.25	1.52	1.18	78	0.68	45	W	HW	
22.25	23.77	1.52	1.40	92	0.50	33	W	HW	
23.77	25.30	1.53	1.30	85	0.66	43	W	HW	
25.30	26.82	1.52	1.40	92	0.25	16	VW	MW	
26.82	28.35	1.53	1.53	100	0.49	32	W	MW	
28.35	29.87	1.52	1.07	70	0.85	56	MS	MW	
29.87	31.39	1.52	0.66	43	0.57	38	MS	SW	
31.39	32.92	1.53	0.60	39	0.30	20	MS	SW	
32.92	34.44	1.52	1.25	82	1.00	66	S	SW	
34.44	35.97	1.53	1.28	84	0.69	45	MS	SW	
35.97	37.49	1.52	1.35	89	0.92	61	MS	SW	
37.49	39.01	1.52	0.84	55	0.65	43	MS	SW	
39.01	40.54	1.53	1.52	99	1.00	65	MS	FR	
40.54	42.06	1.52	1.45	95	0.95	62	MS	FR	
42.06	43.59	1.53	1.37	90	0.80	52	MS	FR	
43.59	45.11	1.52	1.42	93	0.99	65	MS	FR	
45.11	46.63	1.52	1.52	100	1.52	100	MS	FR	
46.63	48.16	1.53	1.53	100	1.53	100	MS	FR	
48.16	49.68	1.52	1.45	95	1.22	80	MS	FR	
49.68	51.21	1.53	1.53	100	1.53	100	MS	FR	
51.21	52.73	1.52	1.28	84	0.63	41	MS	FR	
52.73	54.25	1.52	1.52	100	0.99	65	MS	SW	
54.25	55.78	1.53	0.85	56	0.26	17	S	MW	
55.78	57.30	1.52	1.06	70	0.34	22	MS	HW	
57.30	58.83	1.53	0.90	59	0.30	20	MS	HW	
58.83	60.35	1.52	1.27	84	0.99	65	MS	MW	
60.35	61.87	1.52	1.45	95	0.56	37	MS	MW	
61.87	63.40	1.53	1.20	78	0.60	39	MS	MW	
63.40	64.92	1.52	1.43	94	0.75	49	S	MW	
64.92	66.45	1.53	1.53	100	1.21	79	MS	MW	
66.45	67.97	1.52	1.49	98	1.33	88	MS	SW	
67.97	69.49	1.52	1.35	89	0.77	51	MS	MW	
69.49	71.02	1.53	0.84	55	0.00	0	MS	MW	
71.02	72.54	1.52	0.42	28	0.00	0	W	HW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	0.19	12	0.00	0	W	HW	
74.07	75.59	1.52	0.18	12	0.00	0	EW	HW	
75.59	77.11	1.52	0.27	18	0.00	0	EW	EW	
77.11	78.64	1.53	0.94	61	0.00	0	EW	EW	
78.64	80.16	1.52	0.65	43	0.00	0	EW	EW	
80.16	81.69	1.53	1.08	71	0.00	0	EW	EW	
81.69	83.21	1.52	0.70	46	0.00	0	EW	EW	
83.21	84.73	1.52	1.30	86	0.00	0	EW	EW	
84.73	86.26	1.53	1.00	65	0.00	0	EW	EW	
86.26	87.78	1.52	0.90	59	0.00	0	EW	EW	
87.78	89.31	1.53	0.65	42	0.00	0	VW	EW	
89.31	90.83	1.52	0.81	53	0.00	0	EW	EW	
90.83	92.35	1.52	0.18	12	0.00	0	EW	EW	
92.35	93.88	1.53	1.37	90	0.96	63	W	HW	
93.88	95.40	1.52	0.55	36	0.00	0	EW	EW	
95.40	96.93	1.53	1.35	88	0.00	0	EW	EW	
96.93	98.45	1.52	1.20	79	0.33	22	VW	HW	
98.45	99.97	1.52	1.20	79	0.42	28	MS	MW	
99.97	101.50	1.53	0.76	50	0.60	39	W	EW	
101.50	103.02	1.52	0.90	59	0.30	20	EW	EW	
103.02	104.55	1.53	0.40	26	0.00	0	EW	EW	
104.55	106.07	1.52	1.00	66	0.00	0	EW	EW	
106.07	107.59	1.52	1.12	74	0.00	0	EW	EW	
107.59	109.12	1.53	0.60	39	0.00	0	EW	EW	
109.12	110.64	1.52	0.85	56	0.28	18	VW	EW	
110.64	112.17	1.53	1.18	77	0.26	17	EW	EW	
112.17	113.69	1.52	0.87	57	0.00	0	EW	EW	
113.69	115.21	1.52	0.75	49	0.00	0	EW	EW	
115.21	116.74	1.53	1.03	67	0.34	22	EW	HW	
116.74	118.26	1.52	0.37	24	0.00	0	EW	EW	
118.26	119.79	1.53	1.03	67	0.00	0	EW	EW	
119.79	121.31	1.52	0.55	36	0.00	0	EW	EW	
121.31	122.83	1.52	0.60	39	0.00	0	EW	EW	
122.83	124.36	1.53	0.97	63	0.12	8	EW	EW	
124.36	125.88	1.52	1.42	93	0.38	25	VW	EW	
125.88	127.41	1.53	1.40	92	0.41	27	VW	EW	
127.41	128.93	1.52	1.28	84	0.35	23	VW	EW	
128.93	130.45	1.52	1.09	72	0.00	0	VW	EW	
130.45	131.98	1.53	0.02	1	0.00	0	EW	EW	
131.98	133.50	1.52	0.40	26	0.00	0	EW	EW	
133.50	135.03	1.53	1.42	93	0.45	29	VW	HW	
135.03	136.55	1.52	1.03	68	0.36	24	W	EW	
136.55	138.07	1.52	0.80	53	0.00	0	VW	EW	
138.07	139.60	1.53	0.15	10	0.00	0	EW	EW	
139.60	141.12	1.52	0.35	23	0.00	0	EW	EW	
141.12	142.65	1.53	0.85	56	0.32	21	W	HW	
142.65	144.17	1.52	1.15	76	0.40	26	VW	EW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
144.17	145.69	1.52	0.98	64	0.85	56	W	HW	
145.69	147.22	1.53	0.78	51	0.10	7	W	HW	
147.22	148.74	1.52	1.23	81	0.54	36	W	HW	
148.74	150.27	1.53	1.20	78	0.63	41	W	HW	
150.27	151.79	1.52	1.29	85	0.66	43	W	HW	
151.79	153.31	1.52	1.07	70	0.79	52	MS	MW	
153.31	154.84	1.53	1.40	92	0.94	61	MS	SW	
154.84	156.36	1.52	1.52	100	1.52	100	MS	FR	
	156.36	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-65

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
13.11	14.63	1.52	0.52	34	H885409	2.5	61	0.02	0.12	67	1.39	
14.63	16.15	1.52	0.26	17	H885410	0.5	61	0.02	0.10	69	1.57	
16.15	17.68	1.53	0.12	8	H885411	0.5	61	0.09	2.55	858	14.50	
17.68	19.41	1.73	0.74	43	H885412	1.0	61	0.67	0.76	3850	106.00	
19.41	20.73	1.32	0.81	61	H885414	3.0	61	0.07	0.16	268	5.16	
20.73	22.63	1.90	1.25	66	H885415	4.0	61	0.09	0.84	1590	10.05	
22.63	24.60	1.97	1.97	100	H885416	8.0	61	0.51	0.14	274	6.44	
24.60	25.48	0.88	0.61	69	H885417	1.5	61	0.08	3.40	811	8.44	
25.48	28.35	2.87	2.87	100	H885418	12.5	61	0.04	0.15	25	4.21	
28.35	31.39	3.04	1.71	56	H885434	8.0	61	0.01	0.15	35	1.54	
31.39	34.44	3.05	1.94	64	H885436	7.0	61	0.03	0.07	86	7.73	
49.68	52.73	3.05	2.81	92	H885482	12.5	63	0.30	0.55	137	23.20	
52.73	53.71	0.98	0.98	100	H885483	4.0	63	0.03	0.54	145	3.66	
53.71	54.58	0.87	0.79	91	H885484	3.0	63	0.05	1.37	113	8.48	
54.58	56.85	2.27	1.26	56	H885485	4.0	63	0.17	5.47	749	49.30	
56.85	58.83	1.98	1.22	62	H885486	5.0	63	0.03	2.43	337	23.70	
58.83	61.51	2.68	2.45	91	H885487	9.5	63	0.25	0.60	211	97.00	
61.51	63.40	1.89	1.43	76	H885489	6.0	63	0.53	1.41	1760	105.50	
63.40	66.45	3.05	2.96	97	H885490	12.0	63	0.11	9.52	4310	70.40	
66.45	69.49	3.04	2.84	93	H885491	11.5	63	0.05	2.23	63	286.00	
69.49	72.54	3.05	1.03	34	H885492	6.0	63	<0.01	0.95	37	57.00	
72.54	74.07	1.53	0.19	12	H885493	1.0	63	<0.01	0.14	21	3.97	
74.07	75.59	1.52	0.18	12	H885494	1.0	63	0.03	0.79	234	40.00	
75.59	77.11	1.52	0.27	18	H885495	1.0	63	0.51	64.20	3120	615.00	
77.11	80.16	3.05	1.59	52	H885496	6.0	63	0.06	45.00	4320	578.00	
80.16	83.21	3.05	1.78	58	G284169	5.5	64	0.53	9.44	12700	1480.00	
83.21	86.26	3.05	2.36	77	G284170	6.0	64	0.12	5.83	2360	440.00	
86.26	89.31	3.05	1.55	51	G284171	5.0	64	0.11	1.33	2820	294.00	
89.31	90.83	1.52	0.81	53	G284172	2.5	64	0.01	0.31	2950	284.00	
90.83	92.35	1.52	0.81	53	G284174	1.0	64	0.01	0.23	2930	70.20	
92.35	93.88	1.53	1.37	90	G284175	5.0	64	<0.01	0.39	1040	847.00	
93.88	95.40	1.52	0.55	36	G284176	2.0	64	0.01	0.44	1375	963.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
95.40	98.13	2.73	2.20	81	G284178	7.5	64	0.02	0.38	4750	4.88	
98.13	100.60	2.47	2.10	85	G284179	8.5	64	0.01	0.01	33	0.37	
100.60	103.02	2.42	1.05	43	G284180	4.0	64	0.05	0.75	11800	2.92	
103.02	104.55	1.53	0.40	26	G284181	1.5	64	0.06	0.67	12200	7.92	
104.55	106.07	1.52	1.00	66	G284182	4.5	64	0.03	0.20	10400	2.28	
106.07	107.59	1.52	1.12	74	G284183	4.0	64	0.04	0.19	17500	8.01	
107.59	109.12	1.53	0.60	39	G284185	3.5	64	0.07	0.20	25700	21.10	
109.12	111.05	1.93	1.05	54	G284186	5.0	64	0.12	0.15	27100	12.30	
111.05	112.95	1.90	1.17	62	G284187	5.0	64	0.07	0.13	7830	8.11	
112.95	114.85	1.90	1.15	61	G284241	3.5	66	0.54	0.21	36800	186.50	
114.85	116.74	1.89	1.62	86	G284242	6.0	66	0.03	0.08	3470	6.09	
116.74	119.79	3.05	2.07	68	G284243	5.0	66	0.76	0.53	22100	171.50	
119.79	121.31	1.52	0.86	57	G284244	2.0	66	1.59	1.03	26700	697.00	
121.31	122.83	1.52	0.95	63	G284245	2.5	66	1.29	0.46	27000	43.80	
122.83	125.88	3.05	2.62	86	G284247	8.5	66	1.75	2.18	27800	185.50	
125.88	128.95	3.07	2.70	88	G284248	8.5	66	3.00	4.77	41100	152.00	
128.95	130.45	1.50	1.32	88	G284249	4.0	66	0.37	1.64	28600	88.60	No recovery between 130.45-131.98 m.
131.98	133.50	1.52	0.46	30	G284250	2.0	66	0.49	2.15	29400	26.00	
133.50	135.03	1.53	1.51	99	G284251	5.0	66	3.62	5.05	29000	407.00	
135.03	136.55	1.52	1.11	73	G284252	4.5	66	0.12	1.75	12600	35.10	
136.55	138.07	1.52	0.99	65	G284254	3.5	66	0.52	1.34	29200	386.00	
138.07	139.60	1.53	0.14	9	G284255	1.0	66	0.50	0.57	24200	54.50	
139.60	141.12	1.52	0.39	26	G284256	1.5	66	0.14	0.82	13800	71.50	
141.12	142.65	1.53	0.80	52	G284257	3.5	66	1.04	2.44	7680	35.60	
142.65	144.17	1.52	1.11	73	G284258	3.5	66	0.32	6.63	14400	111.50	
144.17	147.22	3.05	1.77	58	G284259	7.5	66	0.67	0.84	2440	58.90	
147.22	150.20	2.98	2.56	86	G284261	10.5	66	0.26	0.98	1920	130.00	
150.20	152.11	1.91	1.70	89	G284262	6.5	66	0.99	1.80	11800	51.50	
152.11	154.33	2.22	1.65	74	G284307	6.5	67	0.03	0.08	570	0.45	
154.33	156.36	2.03	2.03	100	G284308	8.0	67	<0.01	0.01	<5	0.05	
-	-	-			H885413	4.0	61	0.01	0.15	16	0.34	Blank
-	-	-			H885435	0.3	61	1.53	1.80	27400	370.00	Standard R-2

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			H885488	0.3	63	1.63	1.60	15100	325.00	Standard R-2
-	-	-			H885497	4.0	63	<0.01	0.09	13	0.97	Blank
-	-	-			G284173	4.0	64	<0.01	0.02	12	1.39	Blank
-	-	-			G284177	0.3	64	1.54	1.72	26600	347.00	Standard R-2
106.07	107.59	1.52	1.12	74	G284184	3.0	64	0.04	0.18	17000	6.74	Duplicate
-	-	-			G284246	4.0	66	<0.01	<0.01	148	0.64	Blank
-	-	-			G284253	0.3	66	1.58	1.53	23100	344.00	Standard R-2
-	-	-			G284260	4.0	66	<0.01	0.02	51	0.42	Blank
-	-	-			G284263	0.3	66	4.87	0.16	34900	459.00	Standard R-3

BOX DENSITY LOG

HOLE: Rau-09-65

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
15	78.55	83.95	6.12	OX	RBL	3.00	53.0	2.72	
16	83.95	88.40	6.12	OX	RBL	2.85	53.0	2.87	
20	105.85	110.82	6.12	OX	RBL	2.57	48.0	2.88	
21	110.82	116.27	6.12	OX	RBL	3.05	50.0	2.53	
23	119.35	124.36	6.12	OX	RBL	2.32	46.0	3.06	
24	124.36	128.60	6.12	OX	RBL	3.58	52.0	2.24	
25	128.60	135.03	6.12	OX	RBL	3.10	49.0	2.44	

DENSITY LOG

HOLE: Rau-09-65

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
59.13	LST	ALT		15.1	6.1	1194.8	755.2	2.69	2.72
65.60	LST	ALT		14.9	6.1	1287.5	858.3	2.94	3.00

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-65

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
3.09	LST		0.03	
4.00	LST		0.01	
5.00	LST		0.05	
6.00	LST		0.03	
7.00	LST		0.03	
8.00	LST		0.03	
9.00	LST		0.08	
10.00	LST		0.10	
11.00	LST		0.16	
12.00	LST		0.00	
13.00	LST		0.03	
14.00	LST		0.13	
15.00	LST		0.03	
16.00	LST		0.06	
17.00	LST	ALT	0.47	
18.00	LST	ALT	0.28	
19.00	LST	ALT	0.50	
20.00	LST	ALT	0.40	
21.00	LST	ALT	0.16	
22.00	LST	ALT	0.42	
23.00	LST	ALT	0.05	
24.00	LST	ALT	0.15	
25.00	LST	ALT	1.32	
26.00	LST	ALT	0.05	
27.00	LST	ALT	0.25	
28.00	LST	ALT	0.05	
29.00	LST	ALT	0.01	
30.00	LST	ALT	0.05	
31.00	LST	ALT	0.01	
32.00	LST	ALT	0.18	
33.00	LST	ALT	0.05	
34.00	LST	ALT	0.05	
35.00	LST	ALT	0.30	
36.00	LST	ALT	0.11	
37.00	LST	ALT	0.05	
38.00	LST	ALT	0.20	
39.00	LST	ALT	0.10	
40.00	LST	ALT	0.01	
41.00	LST	ALT	0.08	
42.00	LST	ALT	0.05	
43.00	LST	ALT	0.13	
44.00	LST	ALT	0.05	
45.00	LST	ALT	0.05	
46.00	LST	ALT	0.20	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	LST	ALT	0.06	
48.00	LST	ALT	0.11	
49.00	LST	ALT	0.05	
50.00	LST	ALT	0.15	
51.00	LST	ALT	0.18	
52.00	LST	ALT	0.06	
53.00	LST	ALT	0.13	
54.00	LST		0.10	
55.00	LST		0.11	
56.00	LST		0.36	
57.00	LST		0.20	
58.00	LST		0.25	
59.00	LST		0.31	
60.00	LST		0.58	
61.00	LST		0.40	
62.00	LST		0.52	
63.00	LST		0.48	
64.00	LST		0.47	
65.00	LST		0.57	
66.00	LST		0.28	
67.00	LST		1.09	
68.00	LST		0.38	
69.00	LST		1.47	
70.00	LST		1.00	
71.00	LST		0.50	
72.00	LST		0.25	
73.00	LST		0.40	
74.00	LST		0.10	
75.00	VOL	ALT	0.50	
76.00	OX	RBL	0.10	
77.00	OX	RBL	0.52	
78.00	OX	RBL	0.18	
79.00	OX	RBL	0.21	
80.00	OX	RBL	0.60	
81.00	OX	RBL	0.36	
82.00	OX	RBL	0.38	
83.00	OX	RBL	0.35	
84.00	OX	RBL	0.57	
85.00	OX	RBL	0.38	
86.00	OX	RBL	0.52	
87.00	OX	RBL	0.38	
88.00	OX	RBL	0.78	
89.00	OX	RBL	0.50	
90.00	OX	RBL	0.42	
91.00	OX	RBL	0.08	
92.00	OX	RBL	0.33	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	OX	RBL	0.63	
94.00	OX	RBL	0.62	
95.00	OX	RBL	0.60	
96.00	OX	RBL	0.67	
97.00	OX	RBL	0.40	
98.00	OX	RBL	0.06	
99.00	MBL		0.33	
100.00	OX	RBL	0.03	
101.00	OX	RBL	0.18	
102.00	OX	RBL	0.68	
103.00	OX	RBL	0.63	
104.00	OX	RBL	0.40	
105.00	OX	RBL	0.68	
106.00	OX	RBL	0.52	
107.00	OX	RBL	0.53	
108.00	OX	RBL	0.52	
109.00	OX	RBL	0.70	
110.00	OX	RBL	0.48	
111.00	OX	RBL	0.48	
112.00	OX	RBL	0.21	
113.00	OX	RBL	0.58	
114.00	OX	RBL	0.58	
115.00	OX	RBL	0.13	
116.00	OX	RBL	0.18	
117.00	OX	RBL	0.50	
118.00	OX	RBL	0.84	
119.00	OX	RBL	0.67	
120.00	OX	RBL	0.33	
121.00	OX	RBL	0.48	
122.00	OX	RBL	0.43	
123.00	OX	RBL	0.42	
124.00	OX	RBL	0.75	
125.00	OX	RBL	0.68	
126.00	OX	RBL	0.68	
127.00	OX	RBL	0.68	
128.00	OX	RBL	0.78	
129.00	OX	RBL	0.60	
130.00	OX	RBL	0.80	
131.00	OX	RBL	0.23	
132.00	OX	RBL	0.23	
133.00	OX	RBL	0.50	
134.00	OX	RBL	0.62	
135.00	OX	RBL	0.62	
136.00	OX	RBL	0.08	
137.00	OX	RBL	0.75	
138.00	OX	RBL	0.48	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139.00	OX	RBL	0.47	
140.00	OX	RBL	0.15	
141.00	OX	RBL	0.31	
142.00	OX	RBL	0.78	
143.00	OX	RBL	0.45	
144.00	OX	RBL	0.68	
145.00	OX	RBL	0.30	
146.00	OX	RBL	0.33	
147.00	OX	RBL	0.21	
148.00	OX	RBL	0.30	
149.00	OX	RBL	0.38	
150.00	OX	RBL	0.26	
151.00	OX	RBL	0.38	
152.00	OX	RBL	0.57	
153.00	MBL		0.01	
154.00	MBL		0.18	
155.00	MBL		0.13	
156.00	MBL		0.05	

BOX LOG

HOLE: Rau-09-65

BOX	FROM (m)	TO (m)
1.00	3.09	11.25
2.00	11.25	22.00
3.00	22.00	25.68
4.00	25.68	28.58
5.00	28.58	34.44
6.00	34.44	38.90
7.00	38.90	42.63
8.00	42.63	46.63
9.00	46.63	51.02
10.00	51.02	55.00
11.00	55.00	60.98
12.00	60.98	65.49
13.00	65.49	69.61
14.00	69.61	78.55
15.00	78.55	83.95
16.00	83.95	88.40
17.00	88.40	95.20
18.00	95.20	99.68
19.00	99.68	105.85
20.00	105.85	110.82
21.00	110.82	116.27
22.00	116.27	119.35
23.00	119.35	124.36
24.00	124.36	128.60
25.00	128.60	135.03
26.00	135.03	142.65
27.00	142.65	147.72
28.00	147.72	152.11
29.00	152.11	156.36
	156.36	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE:
SECTION:

HOLE: Rau-09-66
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528524	7119072	1259	153.32

Contractor: Superior
Drill: Oxide 2

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-55	compass				

Core size: HQ
Casing depth: 15.24 (m) out

Drilling dates: Sept 14-17, 2009

Logged by: R. Foubister

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	7.01	7.01	OVB	
7.01	8.53	1.52	VOL	Altered
8.53	13.65	5.12	OX	Rubbly
13.65	16.15	2.50	MX	
16.15	19.02	2.87	LST	
19.02	77.81	58.79	DOL	Mineralized
77.81	79.33	1.52	VOL	Altered
79.33	79.65	0.32	MBL	
79.65	80.93	1.28	DOL	
80.93	81.69	0.76	LST	Dolomitized
81.69	94.82	13.13	DOL	Mineralized
94.82	99.97	5.15	LST	Dolomitized
99.97	118.26	18.29	DOL	
118.26	119.79	1.53	VOID	
119.79	125.46	5.67	OX	Rubbly
125.46	150.5	25.04	MBL	
150.5	153.31	2.81	LST	

SAMPLES

Numbers: G284309-G284336, G284406-G284429, G284455-G248484 Batches 67,68,70,71,72
Total: 83
Date sent:
Certificate: VAVA0910518, VA09118050 (rerun), VA09107963, VA09107970, VA09109503,

COMMENTS

This hole containted some of the nicest mineralization to date.

GEOLOGY LOG

HOLE: Rau-09-66

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	7.01	7.01	OVB	LST																		
7.01	8.53	1.52	VOL	ALT		FO	80					m										10 cm altered tan volcaniclastic, then 20 cm grey brecciated limestone, then into light medium brown, soft, weakly foliated, altered to rusty oxidized volcaniclastic(?) Flaky and not competent.
8.53	13.65	5.12	OX	RBL																		Light to medium brown oxide (+/-) minor altered volcanic crumble rubble. Coarse fragments to gritty sand. (COLOUR: 7.5YR 5/4 - brown)
																						11.58-11.70m Light tan brown, presumably crumbled alt volcaniclastic observed above.
																						11.70-13.65m Soft brown oxide with minor limonite (?) crumbly grit from brown to reddish-brown.
13.65	16.15	2.50	MX												35	20						Semi-massive arsenopyrite and pyrite with minor (<10%) Qz and strong scorodite alteration. Most regions without Asp/Py crystals are so scorodite-altered (yellow-green) that original rock type/texture is obliterated. Sulphides are semi-massive, intimate/patchy, with Asp slightly coarser.
						Py	60															Strongly scorodite-altered regions are crumbly and weathered, and remainder is slightly vuggy. Py forms bands (foliaform?), with As seeming to randomly infill.
16.15	19.02	2.87	LST		BX										f							Strongly crackle brecciated, slightly altered grey limestone. Ca veinlets forms brecciation. Py is disseminated throughout, but markedly increases in the last 30 cm. No foliation observed.
															s							17.68-18.00 m: Strong pyrite mineralization, with rusty coating on fractures. Strongly disseminated to semi-massive. Core is broken up into <5cm chunks.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
19.02	77.81	58.79	DOL	MX											25	15	t					Fairly coarse-grained white dolomite mineralized throughout with ~ 40% SX, Py > Asp. A foliation is defined by rough bands of medium-grained pyrite. Asp is slightly variable, and generally is crystallized between Py bands as coarse aggregates and disseminations. A few small regions of brecciated limestone, and grey silty limestone. Asp crystals form up to 1 cm in size. Some ~10% Qz flood in first 30cm
																						22.90-23.00 m: Fine-grained, non-calcareous massive grey siltstone? layer. Non mineralized with pinkish grey alteration for 5 cm around it. Start seeing scattered small white flakes (muscovite?)
						FO	60															19-35 m: Foliation occurs at 60 deg to CA, and gradually steepens to 70 deg for 10 m and back to 60 deg by 41 m.
						FO	70															
						FO	60															
															f		f					34.80-35.40m Py/Asp decrease in concentration, the dolomite is harder, finer-grained and with blebs of Po/Py and no Asp. A few low angle, seemingly splaying fractures (non-pervasive) occur at 15-20 deg.
															f							36.45-37.05 m: Region of darker grey, brecciated limestone, more broken and only minor Py mineralization.
															25	15						40.30 +/- 0.05 m: Crumbly, light greenish alteration zone with Py/Asp.
																						Between ~40.90 and 41.20 m:, increased dark grey brecciated limestone.
						FO	60								10	35						41.35-41.60 m: Especially strong Asp mineralization (Asp>Py). Coarser disseminated crystals up to 0.5 cm (but composed of smaller faces).
																						43.59-43.64 m: Rounded, slightly vuggy pieces of fine-grained massive Py.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FO	60															46.29-46.42 m: Layer (with irregular boundaries) of dark grey, fine-grained siltstone. Sharp contacts, and only a few blebs Asp within.
															10	10	t					42.20-51.21 m: Around 20% sulphides, variably distributed but often forming crude foliation at 60 deg to CA. Pyrite is fine-medium grained stringers and coarse disseminations. Asp is much coarser, with clots and large crystals, intimate with pyrite.
						FO	60								6	4	t					52.21-63.40 m: Slightly less mineralization, though still ~10%. Py slightly > Asp, occurring as thinner stringers defining foliation, and sometimes other patterns. Asp occurs as 2-5 mm crystals throughout, sometimes strung together, sometimes disseminated. White muscovite flakes pop up from time to time.
															f	10						63.40-64.92 m: More grey limestone looking interval, with pyrite largely absent. Asp mineralization continues, however, as coarse clots and crystals. The last 30 cm of interval has increased Py stringers.
															50	35						64.92-67.97 m: Strongly mineralized section of semi-massive to massive Asp and Py. 35% very coarse Asp crystals, with fine Py as infill and stringers. Minor orange staining on the few unmineralized dolomite crystals. The Py content in interval fluctuates but Asp consistently ~35%.
																						64.92-65.78m Nearly massive Asp/Py.
						FO	60								25	15						67.97-74.68 m: Coarse dolomite with defined crystal boundaries, and ~ 40% sulphides, irregularly dispersed from regions of 10% to regions of 90%. Py occurs as finer bands, stringers and patches, and As coarse crystals strongly disseminated. Mineralized banding still remains constant ~ 60 deg to CA.
															10	15						74.68-77.81 m: Variably mineralized dolomite with some rhodochrosite (pink) and a few minor silty patches. Last 10 cm is massive Asp.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
77.81	79.33	1.52	VOL	ALT		FO	65								t	w						77.81-79.33 m: Light brown, foliated, weakly mineralized altered volcaniclastic. 1-3 mm Asp grains disseminated at the start of interval with blebs Py. Both become scarce as interval continues. Below 78.64 m, volcaniclastic becomes broken pebbles.
79.33	79.65	0.32	MBL			FO	70															Solid, competent white marble. Weak foliation defined by siltier stringers at 70 deg to CA.
79.65	80.93	1.28	DOL												w	f						79.65-80.93 m: Weakly mineralized, dirty dolomite with coarse masses of Asp and finer Py stringers. Some weak crackling.
80.93	81.69	0.76	LST	ALT					m						t	w						Light grey, dolomitized limestone, somewhat crackled, with clasts fizzing moderately. Mineralization decreases but is still present.
81.69	94.82	13.13	DOL	MX											m	w						Variably mineralized dolomite with Asp/Py. Py occurs as stringers while Py occurs more as patches. Some slightly rusty fractures. Asp content has dropped to average 3%. A few more Asp rich regions have more pure dolomite and coarse Asp crystals.
															t	m						84.73-87.78 m: Asp described above, less Py, more pure dolomite with up to 2 cm Asp crystals and coarse clusters of Asp. A few thin beige silty stringers occur.
																						87.78-94.82 m: Back to more banded, mineralized dolomite with 10% sulphides. Now almost all Py with only trace Asp. At 87.78 m, a 2 cm dolomite veinlet crosscuts everything, including Py/Asp mineralization. Late stage.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
94.82	99.97	5.15	LST	ALT					m						f	m						Variable dolomite and dolomitized limestone. Generally darker grey than the above interval, crackled and variably dolomitized with a few regions of rhodochrosite. No real foliated fabric in this interval. Total sulphide content is ~10%, but Asp has picked up again to 5-6%. Also some black silty stringers with minor graphitic surfaces.
															f	ms						94.82-95.40 m: Best mineralized Asp region (of this interval), with some up to 1 cm bands and coarse crystals of Asp.
99.97	118.26	18.29	DOL																			Pink, variably iron-carbonate altered coarse Dolomite/rhodochrosite. Slightly vuggy, with distinct grain boundaries, and numerous 10-30 cm FeCa altered dark brown, slightly rusty, broken, rounded, crumbly weathered zones. Some small silty layers in first 2 m. No Asp noted, and <2% Py, occurring as stringers/patches/some disseminations.
																						111-115.21 m: More altered, brownish, and less mineralized. Crackled by long/thin Ca veinlets with rusty alteration.
																						115.21-116.74 m: Washed away
																						116.74-118.26 m: Very poor (<30%) recovery, half altered crackled dolomite, and half crumbly yellowish-brown oxide.
118.26	119.79	1.53	VOID																			118.26-119.79m Void
119.79	125.46	5.67	OX	RBL																		Soft light brown (orangey to reddish) oxide, soft and crumbly to slightly limonite altered and rubbly.
																						119.79-121.31 (last 75cm is "void") Quite bright orange-brown soft, clayey oxide.
																						121.31-122.30 m: light brown clayey to gritty oxide.
																						122.30-123 m: More solid, rubbly (vs. crumbly) darker brown limonitic oxide. (COLOUR: 5YR 3/4 - dark reddish brown)

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						124.36-125.46 m: Slightly reddish-brown, otherwise same oxide. (COLOUR: 2.5YR 4/4 - reddish brown)
125.46	150.50	25.04	MBL																			Immediate, sharp contact into marble. White with orangey-brown on fracture surfaces. 5-10% wispy, folded, almost convolute, <2cm bands/stringers of dark grey silt and magnetite. Whole bands are weakly magnetic, especially the margins which appear to contain fine magnetite. Marble colour varies from white to usually slightly pale rosy (peachy?)
150.50	153.31	2.81	LST			FO	40										t					Medium grey limestone with black stringers and weak to trace Po. Fossiliferous, with common <5 mm crinoid stems and other unknown fragments. Minor Ca veinlet flood.
																						153.31 m: E.O.H.

GEOTECHNICAL LOG

HOLE: Rau-09-66

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
3.82	3.96	0.14	0.14	100	0.00	0	MS	SW	
3.96	5.49	1.53	0.14	9	0.00	0	MS	SW	
5.49	7.01	1.52	0.09	6	0.00	0	MS	SW	
7.01	8.53	1.52	0.80	53	0.10	7	VW	HW	
8.53	10.06	1.53	0.12	8	0.00	0	EW	EW	
10.06	11.58	1.52	0.10	7	0.00	0	EW	EW	
11.58	13.11	1.53	0.43	28	0.00	0	EW	EW	
13.11	14.63	1.52	1.05	69	0.17	11	VW	HW	
14.63	16.15	1.52	0.70	46	0.25	16	W	HW	
16.15	17.68	1.53	1.22	80	0.00	0	MS	SW	
17.68	19.20	1.52	1.45	95	1.19	78	MS	FR	
19.20	20.73	1.53	1.53	100	1.53	100	MS	FR	
20.73	22.25	1.52	0.50	33	0.32	21	MS	FR	
22.25	23.77	1.52	1.48	97	1.31	86	MS	FR	
23.77	25.30	1.53	1.25	82	1.19	78	MS	FR	
25.30	26.82	1.52	1.52	100	1.38	91	MS	FR	
26.82	28.35	1.53	1.53	100	1.53	100	S	FR	
28.35	29.87	1.52	1.52	100	1.35	89	S	FR	
29.87	31.39	1.52	1.51	99	1.51	99	S	FR	
31.39	32.91	1.52	1.52	100	1.52	100	S	FR	
32.91	34.44	1.53	1.41	92	1.28	84	S	FR	
34.44	35.97	1.53	1.53	100	1.48	97	MS	FR	
35.97	37.49	1.52	1.47	97	0.76	50	MS	SW	
37.49	39.01	1.52	1.47	97	0.88	58	S	FR	
39.01	40.54	1.53	0.83	54	0.38	25	MS	SW	
40.54	42.06	1.52	1.45	95	0.98	64	MS	FR	
42.06	43.59	1.53	1.10	72	1.10	72	MS	SW	
43.59	45.11	1.52	1.44	95	1.05	69	MS	SW	
45.11	46.63	1.52	1.50	99	1.50	99	MS	SW	
46.63	48.16	1.53	1.41	92	1.41	92	MS	SW	
48.16	49.68	1.52	1.52	100	1.48	97	MS	FR	
49.68	51.21	1.53	1.53	100	1.36	89	MS	FR	
51.21	52.73	1.52	1.52	100	1.49	98	MS	FR	
52.73	54.25	1.52	1.52	100	1.52	100	MS	FR	
54.25	55.78	1.53	1.45	95	1.45	95	MS	FR	
55.78	57.30	1.52	1.50	99	1.41	93	MS	FR	
57.30	58.83	1.53	1.53	100	1.53	100	MS	FR	
58.83	60.35	1.52	1.40	92	1.40	92	MS	FR	
60.35	61.87	1.52	1.50	99	1.47	97	MS	FR	
61.87	63.40	1.53	1.53	100	1.52	99	MS	FR	
63.40	64.92	1.52	1.52	100	1.41	93	MS	FR	
64.92	66.45	1.53	1.53	100	1.53	100	S	FR	
66.45	67.97	1.52	1.52	100	1.29	85	MS	FR	
67.97	69.49	1.52	1.52	100	1.52	100	MS	FR	
69.49	71.02	1.53	1.52	99	1.52	99	MS	FR	
71.02	72.54	1.52	1.52	100	1.52	100	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
72.54	74.07	1.53	1.48	97	1.43	93	S	FR	
74.07	75.59	1.52	1.52	100	1.28	84	MS	FR	
75.59	77.11	1.52	1.42	93	0.72	47	MS	SW	
77.11	78.64	1.53	1.50	98	0.62	41	W	M	
78.64	80.16	1.52	1.00	66	0.67	44	MS	SW	
80.16	81.69	1.53	1.53	100	1.28	84	MS	SW	
81.69	83.21	1.52	1.50	99	1.32	87	MS	SW	
83.21	84.73	1.52	1.50	99	1.26	83	MS	SW	
84.73	86.26	1.53	1.33	87	1.18	77	MS	SW	
86.26	87.78	1.52	1.50	99	1.47	97	MS	SW	
87.78	89.31	1.53	1.53	100	1.53	100	MS	SW	
89.31	90.83	1.52	1.40	92	1.08	71	MS	SW	
90.83	92.35	1.52	1.52	100	1.52	100	MS	SW	
92.35	93.88	1.53	1.53	100	1.15	75	MS	SW	
93.88	95.40	1.52	1.52	100	1.52	100	MS	SW	
95.40	96.93	1.53	1.51	99	0.92	60	MS	SW	
96.93	98.45	1.52	1.44	95	1.17	77	MS	SW	
98.45	99.97	1.52	1.38	91	0.89	59	MS	SW	
99.97	101.50	1.53	1.39	91	0.36	24	MS	MW	
101.50	103.02	1.52	0.74	49	0.10	7	MS	MW	
103.02	104.55	1.53	1.11	73	0.49	32	MS	MW	
104.55	106.07	1.52	1.52	100	1.35	89	MS	MW	
106.07	107.59	1.52	0.76	50	0.39	26	W	MW	
107.59	109.12	1.53	1.15	75	0.69	45	MS	MW	
109.12	110.64	1.52	1.17	77	1.11	73	MS	MW	
110.64	112.17	1.53	1.33	87	1.06	69	MS	MW	
112.17	113.69	1.52	0.94	62	0.77	51	MS	MW	
113.69	115.21	1.52	0.31	20	0.00	0	MS	MW	
115.21	116.74	1.53	0.00	0	0.00	0			No recovery; washed away
116.74	118.26	1.52	0.41	27	0.15	10	W	HW	
118.26	119.79	1.53	0.00	0	0.00	0			No recovery; 5 ft void
119.79	121.31	1.52	0.51	34	0.00	0	EW	EW	2.5 ft void
121.31	122.83	1.52	1.22	80	0.00	0	VW	EW	
122.83	124.36	1.53	0.62	41	0.00	0	EW	EW	
124.36	125.88	1.52	1.35	89	0.41	27	VW	VW	
125.88	127.41	1.53	1.48	97	0.93	61	MS	SW	
127.41	128.93	1.52	1.39	91	1.00	66	MS	SW	
128.93	130.45	1.52	1.52	100	1.20	79	MS	SW	
130.45	131.98	1.53	1.45	95	1.23	80	MS	SW	
131.98	133.50	1.52	1.52	100	1.48	97	MS	SW	
133.50	135.03	1.53	1.53	100	1.23	80	MS	SW	
135.03	136.55	1.52	1.52	100	1.23	81	MS	SW	
136.55	138.07	1.52	1.44	95	0.62	41	MS	SW	
138.07	139.60	1.53	1.53	100	1.37	90	MS	SW	
139.60	141.12	1.52	1.52	100	1.52	100	MS	FR	
141.12	142.65	1.53	1.51	99	1.38	90	MS	FR	
142.65	144.17	1.52	1.50	99	1.50	99	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
144.17	145.69	1.52	1.52	100	1.50	99	MS	FR	
145.69	147.22	1.53	1.43	93	1.43	93	S	FR	
147.22	148.74	1.52	1.52	100	1.52	100	S	FR	
148.74	150.27	1.53	1.41	92	1.20	78	MS	FR	
150.27	151.79	1.52	1.52	100	1.20	79	MS	FR	
151.79	153.31	1.52	1.25	82	1.11	73	S	FR	
	153.31	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-66

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
7.01	8.53	1.52	0.80	53	G284309	4.0	67	1.20	0.13	9030	25.90	
8.53	10.06	1.53	0.12	8	G284310	0.5	67	15.70	0.42	134000	304.00	
10.06	11.58	1.52	0.10	7	G284311	0.5	68	0.21	0.53	20400	69.70	
11.58	13.11	1.53	0.43	28	G284312	1.5	68	2.59	0.26	53900	368.00	
13.11	13.65	0.54	0.54	100	G284313	2.0	68	91.20	1.95	123000	891.00	
13.65	14.63	0.98	0.58	59	G284314	2.0	68	19.20	0.35	151000	327.00	
14.63	16.15	1.52	0.70	46	G284316	3.0	68	9.43	0.32	152000	217.00	
16.15	17.68	1.53	1.22	80	G284318	5.5	68	0.10	0.13	731	2.46	
17.68	19.02	1.34	1.34	100	G284319	5.5	68	1.01	0.43	1200	53.00	
19.02	20.73	1.71	1.53	89	G284320	9.5	68	8.31	0.21	47900	271.00	
20.73	22.25	1.52	0.50	33	G284321	3.0	68	8.07	0.31	38000	299.00	
22.25	23.77	1.52	1.48	97	G284322	7.5	68	6.47	0.19	60800	307.00	
23.77	25.30	1.53	1.25	82	G284323	6.5	68	6.66	0.14	7430	450.00	
25.30	26.82	1.52	1.52	100	G284324	8.0	68	3.15	0.08	13000	320.00	
26.82	28.35	1.53	1.53	100	G284326	8.0	68	14.15	0.27	21700	644.00	
28.35	29.87	1.52	1.52	100	G284327	9.0	68	3.10	0.13	48500	395.00	
29.87	31.39	1.52	1.51	99	G284328	9.0	68	4.25	0.14	46800	194.50	
31.39	32.91	1.52	1.52	100	G284329	7.5	68	2.89	0.13	63000	171.50	
32.91	34.44	1.53	1.41	92	G284330	7.5	68	5.57	0.11	54200	257.00	
34.44	36.47	2.03	2.03	100	G284331	10.0	68	1.35	0.10	37600	257.00	
36.47	37.09	0.62	0.39	63	G284333	1.5	68	0.53	0.06	6510	34.20	
37.09	39.01	1.92	1.90	99	G284334	10.0	68	5.02	0.25	74500	185.00	
39.01	40.54	1.53	0.83	54	G284335	4.0	68	2.06	0.30	12700	567.00	
40.54	42.06	1.52	1.45	95	G284336	7.0	68	1.33	0.08	31700	55.40	
42.06	43.59	1.53	1.10	72	G284405	5.0	70	4.68	0.22	56600	72.30	
43.59	45.11	1.52	1.44	95	G284406	5.0	70	1.55	0.19	25700	159.50	
45.11	46.63	1.52	1.50	99	G284407	7.5	70	1.12	0.09	48500	184.00	
46.63	48.16	1.53	1.41	92	G284408	7.5	70	3.13	0.14	86300	89.40	
48.16	49.68	1.52	1.52	100	G284409	7.5	70	0.20	0.11	5350	119.50	
49.68	51.21	1.53	1.53	100	G284410	7.5	70	5.95	0.32	42200	128.50	
51.21	52.73	1.52	1.52	100	G284412	7.5	70	0.96	0.41	8300	86.30	
52.73	54.25	1.52	1.52	100	G284413	8.0	70	0.30	1.38	6690	223.00	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
54.25	55.78	1.53	1.45	95	G284414	7.5	70	0.23	0.50	5720	138.50	
55.78	57.30	1.52	1.50	99	G284416	8.0	70	0.83	0.40	14900	191.50	
57.30	58.83	1.53	1.53	100	G284417	8.0	70	0.56	0.09	8340	249.00	
58.83	60.35	1.52	1.40	92	G284419	6.5	71	1.50	0.22	20500	281.00	
60.35	61.87	1.52	1.50	99	G284420	7.0	71	0.08	0.10	3910	339.00	
61.87	63.40	1.53	1.53	100	G284421	7.0	71	0.21	0.10	10100	411.00	
63.40	64.92	1.52	1.52	100	G284423	7.5	71	2.82	0.16	37100	173.50	
64.92	66.45	1.53	1.53	100	G284424	11.0	71	19.35	0.54	183500	379.00	
66.45	67.97	1.52	1.52	100	G284425	9.5	71	9.51	0.14	108000	282.00	
67.97	69.49	1.52	1.52	100	G284426	8.0	71	2.66	0.05	36700	256.00	
69.49	71.02	1.53	1.52	99	G284427	10.5	71	12.75	0.09	161500	228.00	
71.02	72.54	1.52	1.52	100	G284428	8.5	71	6.30	0.09	74900	291.00	
72.54	74.68	2.14	1.48	69	G284429	11.5	71	4.19	0.08	56500	156.50	
74.68	76.20	1.52	1.40	92	G284455	7.0	72	0.53	0.20	6400	44.70	
76.20	77.81	1.61	1.48	92	G284456	8.0	72	5.32	0.26	>10000	240.00	
77.81	79.33	1.52	0.91	60	G284457	3.0	72	0.16	0.30	>10000	4.57	
79.33	79.67	0.34	0.33	97	G284459	1.5	72	0.02	0.03	199	0.47	
79.67	80.93	1.26	1.25	99	G284460	6.0	72	1.48	0.36	>10000	39.30	
80.93	81.69	0.76	0.76	100	G284461	3.5	72	0.28	0.25	>10000	10.35	
81.69	84.73	3.04	3.00	99	G284462	15.0	72	0.59	0.93	>10000	109.50	
84.73	87.78	3.05	2.83	93	G284463	14.5	72	3.91	0.59	>10000	45.20	
87.78	90.83	3.05	2.93	96	G284464	15.0	72	0.29	0.38	9240	170.00	
90.83	93.88	3.05	3.05	100	G284465	15.0	72	0.89	0.11	7550	158.50	
93.88	94.82	0.94	0.94	100	G284466	5.0	72	0.23	0.06	6660	173.00	
94.82	96.93	2.11	2.08	99	G284468	9.5	72	0.45	0.13	>10000	29.00	
96.93	99.97	3.04	2.82	93	G284469	12.0	72	0.09	0.09	6890	8.48	
99.97	103.02	3.05	2.13	70	G284471	9.0	72	1.65	0.12	2080	92.40	
103.02	106.07	3.05	2.63	86	G284472	11.0	72	<0.01	0.05	694	186.00	
106.07	109.12	3.05	1.91	63	G284473	7.5	72	0.03	0.19	1710	179.50	
109.12	112.17	3.05	2.50	82	G284474	9.5	72	<0.01	0.23	910	21.80	
112.17	113.69	1.52	0.90	59	G284475	3.5	72	0.02	0.49	1230	7.60	
113.69	115.21	1.52	0.40	26	G284476	1.0	72	<0.01	0.30	1600	3.33	
116.74	118.26	1.52	0.49	32	G284478	1.5	72	0.02	1.45	1900	84.10	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
119.79	121.31	1.52	0.54	36	G284479	1.0	72	0.55	0.77	>10000	288.00	
121.31	122.83	1.52	1.43	94	G284480	3.5	72	2.37	1.10	>10000	610.00	
122.83	124.36	1.53	0.73	48	G284481	2.0	72	0.18	0.29	>10000	40.80	
124.36	125.46	1.10	0.97	88	G284482	3.0	72	0.15	3.34	>10000	20.60	
125.46	127.41	1.95	1.86	95	G284484	8.0	72	<0.01	0.02	62	0.11	
-	-	-			G284315	0.3	68	1.32	1.91	19200	342.00	Standard R-2
-	-	-			G284317	4.0	68	0.05	0.07	809	1.18	Blank
25.30	26.82	1.52	1.52	100	G284325	4.0	68	2.68	0.15	11600	351.00	Duplicate
-	-	-			G284332	4.0	68	0.01	0.08	97	0.95	Blank
-	-	-			G284411	0.3	70	0.48	0.76	4710	103.00	Standard R-1
-	-	-			G284415	4.0	70	<0.01	0.02	13	0.63	Blank
-	-	-			G284418	0.3	70	5.55	0.16	47700	482.00	Standard R-3
-	-	-			G284422	4.0	71	<0.01	<0.01	40	1.92	Blank
-	-	-			G284458	4.0	72	<0.01	0.02	135	0.93	Blank
-	-	-			G284467	0.3	72	1.54	1.90	>10000	365.00	Standard R-2
96.93	99.97	3.04	2.82	93	G284470	6.5	72	0.15	0.08	4580	8.73	Duplicate
-	-	-			G284477	0.3	72	0.47	0.91	5230	107.50	Standard R-1
-	-	-			G284483	4.0	72	<0.01	0.01	50	0.15	Blank

BOX DENSITY LOG

HOLE: Rau-09-66

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
11	55.26	59.57	6.12	DOL	MX	4.22	87.0	3.18	
13	63.83	67.97	6.12	DOL	MX	4.18	106.0	3.91	

DENSITY LOG

HOLE: Rau-09-66

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
55.89	DOL	MX		13.9	6.1	1266.0	855.8	3.10	3.09
65.03	DOL	MX		14.9	6.1	2235.6	1792.5	5.10	5.05
73.25	DOL	MX		14.4	6.1	1620.9	1194.8	3.83	3.80

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-66

Depth (m)	Unit	Modifier	Magnetic Susceptibility	Comments
3.82	OVB		0.11	
4.00	OVB		0.06	
5.00	OVB		0.58	
6.00	OVB		0.23	
7.00	OVB		0.25	
8.00	VOL	ALT	0.52	
9.00	OX	RBL	0.16	
10.00	OX	RBL	0.15	
11.00	OX	RBL	0.23	
12.00	OX	RBL	0.43	
13.00	OX	RBL	0.43	
14.00	MX		0.25	
15.00	MX		0.85	
16.00	MX		0.06	
17.00	LST		0.13	
18.00	LST		0.10	
19.00	LST		2.26	
20.00	DOL	MX	0.82	
21.00	DOL	MX	0.13	
22.00	DOL	MX	0.62	
23.00	DOL	MX	0.80	
24.00	DOL	MX	2.48	
25.00	DOL	MX	0.60	
26.00	DOL	MX	0.26	
27.00	DOL	MX	3.19	
28.00	DOL	MX	1.42	
29.00	DOL	MX	0.70	
30.00	DOL	MX	1.09	
31.00	DOL	MX	0.47	
32.00	DOL	MX	1.88	
33.00	DOL	MX	0.33	
34.00	DOL	MX	0.63	
35.00	DOL	MX	6.50	
36.00	DOL	MX	0.30	
37.00	DOL	MX	0.23	
38.00	DOL	MX	0.43	
39.00	DOL	MX	0.36	
40.00	DOL	MX	0.28	
41.00	DOL	MX	0.26	
42.00	DOL	MX	1.94	
43.00	DOL	MX	5.84	
44.00	DOL	MX	0.60	
45.00	DOL	MX	3.27	
46.00	DOL	MX	4.87	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
47.00	DOL	MX	0.52	
48.00	DOL	MX	0.47	
49.00	DOL	MX	2.20	
50.00	DOL	MX	3.19	
51.00	DOL	MX	2.20	
52.00	DOL	MX	2.38	
53.00	DOL	MX	0.67	
54.00	DOL	MX	0.60	
55.00	DOL	MX	4.03	
56.00	DOL	MX	1.51	
57.00	DOL	MX	0.52	
58.00	DOL	MX	0.77	
59.00	DOL	MX	2.31	
60.00	DOL	MX	2.15	
61.00	DOL	MX	0.78	
62.00	DOL	MX	2.06	
63.00	DOL	MX	1.86	
64.00	DOL	MX	0.87	
65.00	DOL	MX	0.20	
66.00	DOL	MX	0.26	
67.00	DOL	MX	0.21	
68.00	DOL	MX	0.28	
69.00	DOL	MX	0.38	
70.00	DOL	MX	0.25	
71.00	DOL	MX	0.25	
72.00	DOL	MX	0.48	
73.00	DOL	MX	0.20	
74.00	DOL	MX	0.57	
75.00	DOL	MX	0.67	
76.00	DOL	MX	0.60	
77.00	DOL	MX	0.23	
78.00	VOL	ALT	0.38	
79.00	VOL	ALT	0.11	
80.00	MBL		0.33	
81.00	DOL		0.63	
82.00	DOL	MX	0.25	
83.00	DOL	MX	0.33	
84.00	DOL	MX	0.63	
85.00	DOL	MX	0.47	
86.00	DOL	MX	0.48	
87.00	DOL	MX	0.20	
88.00	DOL	MX	0.35	
89.00	DOL	MX	0.23	
90.00	DOL	MX	0.60	
91.00	DOL	MX	0.31	
92.00	DOL	MX	0.42	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
93.00	DOL	MX	0.21	
94.00	DOL	MX	0.21	
95.00	LST	ALT	0.28	
96.00	LST	ALT	0.30	
97.00	LST	ALT	0.33	
98.00	LST	ALT	0.47	
99.00	LST	ALT	0.35	
100.00	DOL		0.73	
101.00	DOL		0.47	
102.00	DOL		0.58	
103.00	DOL		0.62	
104.00	DOL		0.38	
105.00	DOL		0.55	
106.00	DOL		0.40	
107.00	DOL		1.51	
108.00	DOL		0.47	
109.00	DOL		0.47	
110.00	DOL		0.57	
111.00	DOL		0.20	
112.00	DOL		0.16	
113.00	DOL		0.18	
114.00	DOL		0.13	
115.00	DOL		0.10	
116.00	DOL		0.18	
117.00	DOL		0.11	
118.00	DOL		0.13	
119.00	OX	RBL	0.55	
120.00	OX	RBL	0.50	
121.00	OX	RBL	0.50	
122.00	OX	RBL	0.52	
123.00	OX	RBL	0.52	
124.00	OX	RBL	0.70	
125.00	OX	RBL	0.78	
126.00	MBL		0.52	
127.00	MBL		0.05	
128.00	MBL		0.06	
129.00	MBL		0.05	
130.00	MBL		0.23	
131.00	MBL		0.06	
132.00	MBL		0.75	
133.00	MBL		0.85	
134.00	MBL		0.06	
135.00	MBL		0.18	
136.00	MBL		0.05	
137.00	MBL		2.16	
138.00	MBL		0.05	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
139.00	MBL		27.90	
140.00	MBL		1.94	
141.00	MBL		1.10	
142.00	MBL		18.70	
143.00	MBL		0.05	
144.00	MBL		16.70	
145.00	MBL		13.10	
146.00	MBL		0.06	
147.00	MBL		0.13	
148.00	MBL		0.23	
149.00	MBL		0.18	
150.00	MBL		0.10	
151.00	LST		0.35	
152.00	LST		3.19	
153.00	LST		0.67	

BOX LOG

HOLE: Rau-09-66

BOX	FROM (m)	TO (m)
1.00	3.82	14.63
2.00	14.63	19.41
3.00	19.41	24.92
4.00	24.92	29.12
5.00	29.12	33.32
6.00	33.32	37.57
7.00	37.57	42.20
8.00	42.20	46.89
9.00	46.89	51.10
10.00	51.10	55.26
11.00	55.26	59.57
12.00	59.57	63.83
13.00	63.83	67.97
14.00	67.97	72.23
15.00	72.23	76.26
16.00	76.26	80.40
17.00	80.40	84.31
18.00	84.31	88.54
19.00	88.54	92.55
20.00	92.55	96.48
21.00	96.48	100.57
22.00	100.57	105.36
23.00	105.36	110.20
24.00	110.20	119.91
25.00	119.91	125.99
26.00	125.99	130.21
27.00	130.21	134.22
28.00	134.22	138.52
29.00	138.52	142.76
30.00	142.76	147.22
31.00	147.22	151.55
32.00	151.55	153.31
	153.31	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+000 NW

HOLE: Rau-09-67
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528483	7119035	1235	88.39

Contractor: Superior
Drill: Oxide (3)

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-90	compass				

Core size: HQ
Casing depth: 9.75 (m) out

Drilling dates: Sept 14-15, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	1.52	1.52	OVB	
1.52	9.14	7.62	OX	Rubbly
9.14	30.56	21.42	DOL	Mineralized
30.56	40.44	9.88	LST	Dolomitized
40.44	54.86	14.42	DOL	Mineralized
54.86	63.1	8.24	LST	Dolomitized
63.1	65.84	2.74	MBL	
65.84	88.39	22.55	LEP	Volcaniclastic

SAMPLES	
Numbers:	G284344-360, G284379-392
	G285138
Total:	32
Date sent:	
Certificate:	VA09128050 (rerun), VA09105684, VA09107963, VA09111372

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-67

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	1.52	1.52	OVB																			
1.52	9.14	7.62	OX	RBL											w	w						Medium brown-red rubbly oxide with some rubbly limestone fragments as well as massive sulphide (Asp and Py) rubble.
																						4.57-6.10 m: The oxide contains moderate quartz sand/grit.
															w	w						6.10-9.14 m: Mainly blocky fragments of limonite and mineralized dolomitized limestone. Within there is disseminated-patchy arsenopyrite (weak) and pyrite (weak).
9.14	30.56	21.42	DOL	MX											m	f						Light to medium grey and white to cream-light orange, medium to coarse grained dolomite with heavily disseminated bands of fine grained pyrite and arsenopyrite. Minor zones of medium grey dolomitized limestone. Overall Py>Asp. Pyrite is moderate, arsenopyrite is fair.
						BD	50								40	20						9.14-10.36 m: Semi-massive to massive arsenopyrite and pyrite within a quartz dolomite host. The mineralization consists of coarse grained compact arsenopyrite with fine grained pyrite. Late, post-mineralization through going and non-through going fractures occur at 25 deg to CA. Faint banding of the sulphides occurs in zones that are less massive and run at 50 deg to CA. This interval is well preserved, non oxidized.
						FR	25															
						BD	40								m	f						10.36-14.00 m: Mixture of medium grained grey and orange dolomite with patchy and slightly banded pyrite and arsenopyrite mineralization, and zones of medium to dark grey medium grained dolomitized limestone. 20% Dolomitized limestone, 80% mineralized dolomite. The dolomitized limestone is only very weakly mineralized with fine grained disseminated pyrite. Banding of the sulphides in the dolomite occurs at 40 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						BD	40								m	w						14.00-22.86 m: Cream medium to coarse grained dolomite with 0.2-15 cm heavily disseminated bands of pyrite and arsenopyrite running at 40 deg to CA.
				ALT		BD	40								f	f						22.86-30.56 m: Increase in the concentration of Asp with a slight decrease in the concentration of Py. The Asp generally occurs as medium to coarse grained subhedral crystals and patches with disseminated Py in bands at 40 deg to CA. At 23.80 m there is an increase in the fractures (both through going and non-through going) which form at 35 deg to CA. Associated with these fractures is a faint orange-yellow alteration stain. The sulphides within these altered areas are commonly eroded away leaving pits with only a small smearing of remnant sulphide.
						FR	35															26.72-27.00 m: There is a zone of dark grey dolomitized limestone with patches of white dolomite.
															f	w						30.56-39.79 m: Quite heavily fractured medium to coarse grained dolomite/rhodochrosite altered interval with disseminated to patchy banded Py and Asp. The Asp is generally coarse grained, and in many cases has been partially weathered out leaving pits in the dolomite with a bit of Asp still occurring within. Thin Py bands occur at 60 deg to CA. The most common fracture orientation is 10 deg to CA. The dolomite is mostly orange-red-pink tinted probably Rhodochrosite altered.
30.56	40.44	9.88	LST	ALT					m													30.56-40.44 m: A strange zone of very dark grey dolomitized limestone, strongly brecciated white to light grey, fine grained dolomite. The upper and lower contacts are gradational but occur over 10-15 cm. No mineralization occurs within the unit.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															f	w						39.79-48.77 m: Decrease in the amount of Rhodochrosite alteration, still weak overall. Zones in the dolomite have vuggy, pockets between crystal faces. Pyrite occurs as disseminated and patchy bands at 40 deg to CA. Asp occurs as medium to coarse grained crystals forming masses up to 4 cm.
40.44	54.86	14.42	DOL	MX		BN	40								f	f						48.77-54.86 m: Slight increase in the concentration of Asp to fair. Also the dolomite now is entirely creamy white and light grey. Banding occurs at 40 deg to CA, steepening to 65 deg at 53.50 m.
						BD	65															
54.86	63.10	8.24	LST	ALT		VN	30		f						w	t						Medium grey brecciated limestone with patchy and disseminated pyrite and trace arsenopyrite. Faint white dolomite veins occurring at 30 deg. Very thin cracks/fractures occur at 70 and 5 deg to CA.
						FR	70															From 60.96-63.10 m: There is a zone of yellowish altered dolomitized limestone.
						FR	5															
63.10	65.84	2.74	MBL		BN	BD	40								t		t					White marble with faint grey bands at 40 deg to CA. Trace patches of pyrrhotite and pyrite occur throughout. There is a faint yellowish tint surrounding very thin fractures at 10 deg to CA.
						FR	10															
65.84	88.39	22.55	LEP		FO	FO	30															Medium grey leopard spotted volcaniclastic with medium 'grained' spotted texture and occasional wispy sericite patches. A slight foliation in the rock occurs at 30 deg to CA. The first 4 m of the unit does not have as strong of a spotted texture and it quite fractured up. There is no sign of any biotite or any mineralization with only a small area of limestone.
						BD	20															
						CN	80															The upper contact with the marble is sharp at 80 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	20	0														
																						83.11-83.16 m: Interval of medium to dark grey calcareous rock (limestone?) with upper and lower contacts at 20 deg to CA.
																						E.O.H. - 88.39 m: The hole was ended as it was well into the leopard spotted volcaniclastic.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-67

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.52	3.05	1.53	0.10	7	0.00	0	VW	HW	
3.05	4.57	1.52	0.17	11	0.00	0	VW	HW	
4.57	6.10	1.53	0.26	17	0.00	0	VW	HW	
6.10	7.62	1.52	0.24	16	0.00	0	VW	HW	
7.62	9.14	1.52	0.66	43	0.00	0	W	HW	
9.14	10.67	1.53	1.45	95	1.40	92	MS	SW	
10.67	12.19	1.52	1.52	100	1.52	100	MS	SW	
12.19	13.72	1.53	1.53	100	1.41	92	MS	SW	
13.72	15.24	1.52	1.41	93	1.31	86	MS	SW	
15.24	16.76	1.52	1.45	95	1.18	78	MS	SW	
16.76	18.29	1.53	1.52	99	1.40	92	MS	SW	
18.29	19.81	1.52	1.52	100	0.84	55	MS	SW	
19.81	21.34	1.53	1.53	100	1.46	95	MS	SW	
21.34	22.86	1.52	1.50	99	1.19	78	MS	SW	
22.86	24.38	1.52	1.52	100	1.14	75	S	SW	
24.38	25.91	1.53	1.53	100	1.12	73	MS	SW	
25.91	27.43	1.52	1.44	95	0.97	64	MS	SW	
27.43	28.96	1.53	1.46	95	0.64	42	MS	MW	
28.96	30.48	1.52	1.21	80	0.91	60	MS	MW	
30.48	32.00	1.52	1.42	93	1.16	76	MS	MW	
32.00	33.53	1.53	1.30	85	0.15	10	MS	HW	
33.53	35.05	1.52	1.17	77	0.12	8	MS	HW	
35.05	36.58	1.53	1.51	99	0.58	38	MS	HW	
36.58	38.10	1.52	1.48	97	0.80	53	S	HW	
38.10	39.62	1.52	1.23	81	0.38	25	MS	MW	
39.62	41.15	1.53	1.32	86	0.90	59	MS	MW	
41.15	42.67	1.52	1.52	100	1.30	86	MS	MW	
42.67	44.20	1.53	1.49	97	1.37	90	MS	MW	
44.20	45.72	1.52	1.52	100	1.42	93	MS	MW	
45.72	47.24	1.52	1.50	99	1.10	72	MS	MW	
47.24	48.77	1.53	1.52	99	1.30	85	MS	MW	
48.77	50.29	1.52	1.52	100	1.32	87	MS	SW	
50.29	51.82	1.53	1.53	100	1.53	100	MS	SW	
51.82	53.34	1.52	1.51	99	1.17	77	S	SW	
53.34	54.86	1.52	1.52	100	1.50	99	MS	SW	
54.86	56.39	1.53	1.32	86	1.02	67	MS	SW	
56.39	57.91	1.52	1.52	100	1.37	90	MS	SW	
57.91	59.44	1.53	1.53	100	0.90	59	MS	SW	
59.44	60.96	1.52	1.52	100	1.17	77	MS	SW	
60.96	62.48	1.52	1.52	100	0.53	35	MS	MW	
62.48	64.01	1.53	1.39	91	0.75	49	MS	SW	
64.01	65.53	1.52	1.41	93	1.11	73	MS	SW	
65.53	67.06	1.53	1.50	98	1.10	72	MS	SW	
67.06	68.58	1.52	1.46	96	0.72	47	S	SW	
68.58	70.10	1.52	1.52	100	0.95	63	S	SW	
70.10	71.63	1.53	1.47	96	0.53	35	S	SW	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
71.63	73.15	1.52	1.52	100	1.29	85	S	SW	
73.15	74.68	1.53	1.53	100	1.53	100	S	SW	
74.68	76.20	1.52	1.52	100	1.30	86	S	FR	
76.20	77.72	1.52	1.50	99	1.39	91	S	FR	
77.72	79.25	1.53	1.53	100	1.43	93	S	FR	
79.25	80.77	1.52	1.47	97	1.43	94	S	FR	
80.77	82.30	1.53	1.48	97	1.48	97	S	FR	
82.30	83.82	1.52	1.52	100	1.52	100	S	FR	
83.82	85.34	1.52	1.50	99	1.50	99	S	FR	
85.34	86.87	1.53	1.50	98	1.42	93	S	FR	
86.87	88.39	1.52	1.20	79	0.90	59	S	FR	
	88.39	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-67

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
1.52	3.05	1.53	0.10	7	G284344	0.5	68	2.05	0.47	19200	47.80	
3.05	4.57	1.52	0.14	9	G284345	1.0	68	0.50	0.30	16900	17.25	
4.57	6.10	1.53	0.22	14	G284346	1.0	68	1.69	3.20	17000	81.60	
6.10	7.62	1.52	0.23	15	G284347	1.0	69	0.11	0.58	5120	13.55	
7.62	9.14	1.52	0.53	35	G284348	2.5	69	1.46	5.08	23400	68.10	
9.14	10.36	1.22	1.19	98	G284349	7.5	69	8.85	8.96	60500	239.00	
10.36	12.19	1.83	1.83	100	G284351	10.0	69	4.83	0.22	32100	392.00	
12.19	14.00	1.81	1.80	99	G284352	9.0	69	3.42	0.44	14000	313.00	
14.00	16.76	2.76	2.59	94	G284353	13.0	69	0.72	0.86	4340	184.00	
16.76	19.81	3.05	3.05	100	G284354	15.0	69	0.96	0.58	5940	257.00	
19.81	22.86	3.05	2.95	97	G284355	15.0	69	0.61	0.24	3620	185.50	
22.86	25.91	3.05	2.95	97	G284356	15.0	69	2.71	0.27	33300	431.00	
25.91	28.96	3.05	2.88	94	G284357	12.5	69	0.66	0.30	29800	34.60	
28.96	30.56	1.60	1.25	78	G284358	5.0	69	0.14	0.25	3990	49.80	
30.56	33.56	3.00	2.54	85	G284360	11.0	69	0.08	0.18	3510	23.20	
34.50	36.58	2.08	2.05	99	G284379	9.0	69	0.49	8.92	4300	154.00	
36.58	38.10	1.52	1.52	100	G284380	7.0	69	0.10	0.85	4550	18.55	
38.10	39.79	1.69	1.48	88	G284381	6.0	69	0.66	0.54	15100	154.50	
39.79	42.50	2.71	2.55	94	G284382	13.0	69	1.04	1.37	17900	96.40	
42.50	45.50	3.00	3.00	100	G284383	15.5	70	1.35	1.34	36400	152.50	
45.50	47.00	1.50	1.46	97	G284384	7.5	70	0.40	0.96	4390	116.00	
47.00	48.77	1.77	1.77	100	G284385	9.0	70	1.13	0.62	6100	136.50	
48.77	51.82	3.05	3.04	100	G284386	15.0	70	0.63	0.16	11500	148.00	
51.82	54.86	3.04	3.04	100	G284387	15.0	70	2.20	0.07	6910	74.10	
54.86	57.91	3.05	2.79	91	G284389	12.5	70	0.09	0.10	1320	6.91	
57.91	60.96	3.05	2.98	98	G284390	12.5	70	0.08	0.05	1720	2.97	
60.96	63.10	2.14	2.01	94	G284391	9.5	70	0.12	0.15	583	41.60	
63.10	66.10	3.00	2.78	93	G284392	12.0	70	<0.01	0.02	135	4.17	
33.56	34.50	0.94	0.93	99	G285138	4.0	77	0.08	0.71	4240	49.90	
-	-	-			G284350	3.5	69	0.01	0.10	118	0.60	Blank
-	-	-			G284359	0.3	69	1.66	1.64	16800	313.00	Standard R-2

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			G284388	4.0	70	0.02	<0.01	55	1.48	Blank

BOX DENSITY LOG

HOLE: Rau-09-67

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
18	74.12	78.00	6.12	LEP		3.98	69.0	2.67	
19	78.00	82.04	6.12	LEP		4.01	69.0	2.65	

.

DENSITY LOG

HOLE: Rau-09-67

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
40.00	DOL	MX		14.7	6.1	1461.5	1026.5	3.38	3.36
46.65	DOL	MX		14.6	6.1	1387.0	949.1	3.23	3.17
63.60	MBL			14.0	6.1	1136.6	716.7	2.76	2.71

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-67

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
1.52	OX	RBL	0.15	
2.00	OX	RBL	0.72	
3.00	OX	RBL	0.40	
4.00	OX	RBL	0.06	
5.00	OX	RBL	0.40	
6.00	OX	RBL	0.15	
7.00	OX	RBL	0.52	
8.00	OX	RBL	0.21	
9.00	OX	RBL	0.26	
10.00	DOL	MX	0.13	
11.00	DOL	MX	0.28	
12.00	DOL	MX	0.38	
13.00	DOL	MX	0.18	
14.00	DOL	MX	0.28	
15.00	DOL	MX	0.13	
16.00	DOL	MX	0.33	
17.00	DOL	MX	0.28	
18.00	DOL	MX	0.42	
19.00	DOL	MX	0.18	
20.00	DOL	MX	0.06	
21.00	DOL	MX	0.31	
22.00	DOL	MX	0.45	
23.00	DOL	MX	0.40	
24.00	DOL	MX	0.70	
25.00	DOL	MX	0.47	
26.00	DOL	MX	0.48	
27.00	DOL	MX	0.28	
28.00	DOL	MX	0.25	
29.00	DOL	MX	0.16	
30.00	DOL	MX	0.31	
31.00	LST		0.18	
32.00	LST		0.26	
33.00	LST		0.33	
34.00	LST		1.05	
35.00	LST		0.42	
36.00	LST		0.43	
37.00	LST		0.33	
38.00	LST		0.65	
39.00	LST		0.50	
40.00	LST		0.35	
41.00	DOL	MX	0.48	
42.00	DOL	MX	0.45	
43.00	DOL	MX	0.35	
44.00	DOL	MX	0.30	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	DOL	MX	0.45	
46.00	DOL	MX	0.50	
47.00	DOL	MX	0.42	
48.00	DOL	MX	0.30	
49.00	DOL	MX	0.52	
50.00	DOL	MX	0.47	
51.00	DOL	MX	0.28	
52.00	DOL	MX	0.60	
53.00	DOL	MX	0.26	
54.00	DOL	MX	0.23	
55.00	LST		0.21	
56.00	LST		0.43	
57.00	LST		0.38	
58.00	LST		0.30	
59.00	LST		0.16	
60.00	LST		0.55	
61.00	LST		1.44	
62.00	LST		0.87	
63.00	LST		0.47	
64.00	MBL		0.35	
65.00	MBL		0.25	
66.00	LEP		0.58	
67.00	LEP		13.80	
68.00	LEP		0.67	
69.00	LEP		0.67	
70.00	LEP		0.65	
71.00	LEP		0.63	
72.00	LEP		0.87	
73.00	LEP		0.48	
74.00	LEP		0.50	
75.00	LEP		0.28	
76.00	LEP		0.43	
77.00	LEP		0.43	
78.00	LEP		0.45	
79.00	LEP		0.38	
80.00	LEP		0.43	
81.00	LEP		0.45	
82.00	LEP		0.55	
83.00	LEP		0.45	
84.00	LEP		0.78	
85.00	LEP		0.47	
86.00	LEP		0.43	
87.00	LEP		0.42	
88.00	LEP		5.35	

BOX LOG

HOLE: Rau-09-67

BOX	FROM (m)	TO (m)
1.00	1.52	10.79
2.00	10.79	15.03
3.00	15.03	18.89
4.00	18.89	22.86
5.00	22.86	26.72
6.00	26.72	30.77
7.00	30.77	34.50
8.00	34.50	38.45
9.00	38.45	42.50
10.00	42.50	46.25
11.00	46.25	50.29
12.00	50.29	54.39
13.00	54.39	58.46
14.00	58.46	62.17
15.00	62.17	66.33
16.00	66.33	70.10
17.00	70.10	74.12
18.00	74.12	78.00
19.00	78.00	82.04
20.00	82.04	86.18
21.00	86.18	88.39
	88.39	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+000 NW

HOLE: Rau-09-68
CLAIM: Rau 56

Easting	Northing	Elev.	Depth (m)
528483	7119035	1235	56.36

Contractor: Superior
Drill: Oxide 3

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-55	compass				

Core size: HQ
Casing depth: 4.57 (m) out

Drilling dates: Sept 15-16, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	7.42	7.42	OVB	
7.42	52.14	44.72	OX	Rubbly
52.14	56.39	4.25	MBL	

SAMPLES	
Numbers:	G284430-G284454 Batch 71
Total:	25
Date sent:	
Certificate:	VA09107970

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-68

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	7.42	7.42	OVB																			
7.42	52.14	44.72	OX	RBL																		7.41-13.72 m: Dark red-brown sideritic oxide with a slightly vuggy texture. In some areas there are pockets of bright orange oxde powder.
				RBL																		7.42-9.14 m: This oxide material is clay in composition and more of a red-brown colour (COLOUR 2.5 YR 3/3 - dark reddish brown).
				RBL																		9.14-12.50 m: The oxide becomes more of a dark red-black colour with more of a medium orange red brown smear on the cored surface. The material is semi-compatent and quite vuggy.
				RBL																		12.50-13.72 m: Coarse grained cream to light grey dolomite with light grey dolomite and faint banding a 80 deg to CA. Fine grained pyrite occurs disseminated throughout.
																						13.72-14.22 m: Semi-massive pyrite and arsenopyrite with a slight pitted texture filled with orange-brown powdery oxide. Oxidized bands run at 70 deg to CA. The last 5 cm of the interval are very crumbly.
																						14.22-15.75 m: Medium to dark red-brown sideritic oxide rubble. The surfaces of the fragments are weakly pitted, but the fragments themselves are quite heavy.
																						15.75-36.17 m: Medium to dark red-brown slightly gritty clay oxide. The clay is quite compact and therefor the recovery is quite good. The entire interval is very consistant with only slight variations in shade of the oxide. Little to no textures or structures are visible. Small pockets of brighter orange oxide. Only very trace yellow micaceous flakes occur in the oxide.
																						36.17-37.94 m: Dark brown-black vuggy limonitic oxide, very rubbly.
																						37.94-43.05 m: Medium to dark brown with a slight red tint oxide rubble with some fair clay intervals.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						43.05-44.11 m: Moderately altered medium grey limestone. Fizzes weakly with acid. Quite rubbly with pockets that are turning to clay. A crackled texture is visible on a few of the surfaces.
															w							44.11-52.14 m: Mixture of the brecciated limestone and red-brown gritty clay oxide. The main limestone occurs from 46.24-50.29 m. This limestone is medium grey with a faint brecciated texutre. 0.3-0.6 cm sulphide bearing veins occur at 20 deg to CA. The limestone also contains a weak concentration f sub-hedral strongly oxidized pyrite (?) crystals.
																						NOTE: At 47.62 m: there is a 74 cm zone of clay oxide, but the drillers pulled back 100 ft to grease the rods so this material most likely fell into the hole.
52.14	56.39	4.25	MBL		BN	BD	60															White marble. Upper contact very sharp at 60 deg to CA.
						CN	60															54.10-56.39 m: White to light orange tinting of the marble with faint silty grey horizons at 50 deg to CA.
																						56.39 m: E.O.H. - The hole was ended because it was past the horizon of interest and into the marble.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-68

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
1.52	3.05	1.53	0.09	6	0.00	0	MS	SW	
3.05	4.57	1.52	0.08	5	0.00	0	MS	SW	
4.57	6.10	1.53	0.12	8	0.00	0	VW	EW	
6.10	7.62	1.52	0.26	17	0.00	0	EW	EW	
7.62	9.14	1.52	0.55	36	0.00	0	EW	EW	
9.14	10.67	1.53	0.60	39	0.00	0	EW	EW	
10.67	12.19	1.52	1.23	81	0.00	0	VW	EW	
12.19	13.72	1.53	0.94	61	0.19	12	W	HW	
13.72	15.24	1.52	0.88	58	0.30	20	W	HW	
15.24	16.76	1.52	1.23	81	0.00	0	VW	EW	
16.76	18.29	1.53	1.22	80	0.00	0	VW	EW	
18.29	19.81	1.52	1.00	66	0.00	0	EW	EW	
19.81	21.34	1.53	0.86	56	0.00	0	EW	EW	
21.34	22.86	1.52	1.22	80	0.00	0	VW	EW	
22.86	24.38	1.52	0.94	62	0.00	0	EW	EW	
24.38	25.91	1.53	0.54	35	0.00	0	EW	EW	
25.91	27.43	1.52	0.61	40	0.00	0	EW	EW	
27.43	28.96	1.53	1.21	79	0.00	0	VW	EW	
28.96	30.48	1.52	0.89	59	0.00	0	VW	EW	
30.48	32.00	1.52	0.81	53	0.00	0	VW	EW	
32.00	33.53	1.53	1.18	77	0.00	0	VW	EW	
33.53	35.05	1.52	1.36	89	0.00	0	VW	EW	
35.05	36.58	1.53	1.35	88	0.00	0	VW	EW	
36.58	38.10	1.52	0.99	65	0.00	0	EW	EW	
38.10	39.62	1.52	0.84	55	0.00	0	W	EW	
39.62	41.15	1.53	0.82	54	0.00	0	W	EW	
41.15	42.62	1.47	0.79	54	0.00	0	VW	EW	
42.62	44.20	1.58	1.19	75	0.00	0	W	EW	
44.20	45.72	1.52	0.93	61	0.25	16	W	EW	
45.72	47.24	1.52	1.26	83	0.24	16	W	HW	
47.24	48.77	1.53	1.53	100	0.60	39	W	HW	PULLED BACK 100' TO GREASE' but don't know from which section is reaming.
48.77	50.29	1.52	0.23	15	0.00	0	W	HW	
50.29	51.82	1.53	0.35	23	0.00	0	EW	EW	VOID occurs between these this interval and the one before.
51.82	53.34	1.52	0.70	46	0.23	15	S	FR	
53.34	54.86	1.52	1.22	80	1.22	80	S	FR	
54.86	56.39	1.53	1.34	88	1.19	78	VS	FR	
	56.39	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-68

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
7.42	9.14	1.72	0.76	44	G284430	2.5	71	11.45	25.40	111500	907.00	
9.14	10.67	1.53	0.59	39	G284431	2.0	71	2.13	5.26	84100	352.00	
10.67	12.50	1.83	1.68	92	G284432	5.0	71	2.64	3.29	79600	459.00	
12.50	14.22	1.72	0.95	55	G284433	5.0	71	7.62	2.05	73100	326.00	
14.22	15.75	1.53	1.00	65	G284435	3.5	71	9.24	1.98	111000	335.00	
15.75	18.29	2.54	2.27	89	G284436	7.0	71	10.00	2.70	92300	314.00	
18.29	21.34	3.05	1.97	65	G284438	6.5	71	3.79	0.92	47200	229.00	
21.34	24.38	3.04	2.45	81	G284439	6.0	71	3.21	0.34	43000	761.00	
24.38	25.91	1.53	0.62	41	G284440	1.5	71	1.35	0.79	51500	414.00	
25.91	27.47	1.56	0.77	49	G284441	2.0	71	1.65	0.66	40200	451.00	
27.47	30.48	3.01	2.08	69	G284443	6.0	71	1.09	0.73	55600	522.00	
30.48	33.53	3.05	1.97	65	G284444	6.0	71	3.44	0.30	26600	465.00	
33.53	36.17	2.64	2.41	91	G284445	7.0	71	2.63	1.83	44200	504.00	
36.17	37.94	1.77	1.10	62	G284446	4.0	71	0.40	7.00	57700	294.00	
37.94	39.62	1.68	1.40	83	G284447	4.0	71	1.55	2.09	69700	226.00	
39.62	43.05	3.43	1.70	50	G284448	5.0	71	0.96	5.55	48500	127.00	
43.05	44.11	1.06	0.83	78	G284450	2.0	71	0.11	0.35	6050	6.19	
44.11	46.24	2.13	1.40	66	G284451	4.0	71	1.09	0.65	23200	95.80	
46.24	48.77	2.53	1.67	66	G284452	8.0	71	0.77	0.70	11400	62.00	
48.77	50.29	1.52	0.21	14	G284453	1.0	71	0.26	1.04	9600	13.85	
50.29	52.14	1.85	0.78	42	G284454	2.0	71	6.59	2.21	61200	725.00	
-	-	-			G284434	0.3	71	5.67	0.25	44200	483.00	Standard R-3
-	-	-			G284437	4.0	71	0.02	<0.01	658	2.86	Blank
25.91	27.47	1.56	0.77	49	G284442	1.0	71	1.56	1.21	36900	550.00	Duplicate
-	-	-			G284449	0.3	71	1.57	1.48	26500	331.00	Standard R-2

BOX DENSITY LOG

HOLE: Rau-09-68

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
3	15.75	20.13	6.12	OX	RBL	3.38	50.0	2.28	
4	20.13	24.82	6.12	OX	CLY	3.19	44.0	2.13	
5	24.82	31.12	6.12	OX	CLY	3.45	43.0	1.92	
6	31.12	36.18	6.12	OX	CLY	3.77	51.0	2.09	
7	36.17	41.80	6.12	OX	CLY	2.80	46.0	2.53	

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-68

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
1.52	OVB		1.17	
2.00	OVB		n/a	
3.00	OVB		n/a	
4.00	OVB		0.05	
5.00	OVB		0.03	
6.00	OVB		0.20	
7.00	OVB		0.31	
8.00	OX	RBL	0.50	
9.00	OX	RBL	0.58	
10.00	OX	RBL	0.50	
11.00	OX	RBL	0.85	
12.00	OX	RBL	0.40	
13.00	OX	RBL	0.36	
14.00	OX	RBL	0.35	
15.00	OX	RBL	0.60	
16.00	OX	RBL	0.73	
17.00	OX	RBL	0.73	
18.00	OX	RBL	0.52	
19.00	OX	RBL	0.47	
20.00	OX	RBL	0.40	
21.00	OX	RBL	0.62	
22.00	OX	RBL	0.36	
23.00	OX	RBL	0.26	
24.00	OX	RBL	0.57	
25.00	OX	RBL	0.36	
26.00	OX	RBL	0.23	
27.00	OX	RBL	0.58	
28.00	OX	RBL	0.48	
29.00	OX	RBL	0.35	
30.00	OX	RBL	0.55	
31.00	OX	RBL	0.60	
32.00	OX	RBL	0.63	
33.00	OX	RBL	0.50	
34.00	OX	RBL	0.58	
35.00	OX	RBL	0.65	
36.00	OX	RBL	0.62	
37.00	OX	RBL	0.36	
38.00	OX	RBL	0.33	
39.00	OX	RBL	0.52	
40.00	OX	RBL	0.43	
41.00	OX	RBL	0.45	
42.00	OX	RBL	0.30	
43.00	OX	RBL	0.15	
44.00	OX	RBL	0.35	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
45.00	OX	RBL	0.67	
46.00	OX	RBL	0.15	
47.00	OX	RBL	0.11	
48.00	OX	RBL	0.13	
49.00	OX	RBL	0.68	
50.00	OX	RBL	0.35	
51.00	OX	RBL	0.42	
52.00	OX	RBL	0.30	
53.00	MBL		0.03	
54.00	MBL		0.01	
55.00	MBL		0.03	
56.00	MBL		0.01	

BOX LOG

HOLE: Rau-09-68

BOX	FROM (m)	TO (m)
1	1.52	11.47
2	11.47	15.75
3	15.75	20.13
4	20.13	24.82
5	24.82	31.12
6	31.12	36.17
7	36.17	41.80
8	41.80	46.63
9	46.63	52.35
10	52.35	56.39
	56.39	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+040NW

HOLE: Rau-09-69
CLAIM: Rau 54

Easting	Northing	Elev.	Depth (m)
528497	7119112	1245	71.63

Contractor: Superior
Drill: Oxide 3

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 3.05 (m) out

Drilling dates: Sept 17-18, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	2.80	2.80	OVB	
2.80	4.57	1.77	LST	With intermixed volcaniclastic
4.57	58.85	54.28	DOL	Mineralized
58.85	62.39	3.54	VOL	Altered
62.39	71.63	9.24	LEP	

SAMPLES	
Numbers:	G284498-G285024
	Batch 73
Total:	27
Date sent:	
Certificate:	VA09109504

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-69

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	2.80	2.80	OVB																			
2.80	4.57	1.77	LST																			Mixture of dark green volcaniclastic with specs of white calcite throughout and rubbly limestone. Recovery is poor.
4.57	58.85	54.28	DOL	MX	BN	BD	60								f	w	w					Light to medium grey fine to medium grained dolomite. Talc and quartz occur weak overall. Mineralization consists of fine to medium grained pyrite and pyrrhotite with generally coarse grained, subhedral arsenopyrite.
															m		w					4.57-9.86 m: Fine to medium grained dolomite with indistinct grain boundaries. The upper 1 m is highly fractured with orange-brown alteration on fractured surfaces. Pyrite is mostly patchy as opposed to banded and is fine to medium grained and subhedral. Pyrrhotite forms fine grained irregular patches.
						BD	60								f	w	t					9.86-27.43 m: The mineralization becomes more thinly banded in texture. The concentration of arsenopyrite increases. These grained are typically sub to euhedral. Also white and grey talc seem to increase in concentration to fair. The talc typically consists of short thin compact fibrous zones, sometimes occurring in a rounded texture. Trace quartz occurs within the dolomite. 22.07-22.86 m is a zone of blurry light grey fine grained dolomite with only weak total mineralization. Rare non-through going fractures occur at 30 deg to CA. very minor silty beds occur within the unit following the banding orientation.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						FR	30	180														27.43-42.67 m: Decrease in the concentration of arsenopyrite to trace-weak with a slight increase in the concentration of pyrrhotite. Talc most commonly coats fractures that occur at 10 deg to CA. The pyrite occurs both in thin bands, but now also as concentrated patches. At 34.20 m within a large talc patch, fibrous arsenopyrite occurs scattered along the talcy fractured surface.
																						41.60-42.67 m: Zone of semi-massive light grey quartz with patches of green grey talc and trace Pyrite.
						BD	65								f	w	t					42.67-58.85 m: The dolomite becomes much more typical of the main mineralized horizon. Thin pyrite bands occur at 65 deg to CA. The dolomite is medium to coarse grained, white to light grey with generally well defined grain boundaries. In some areas there are vugs that form between the crystal boundaries. The concentration of coarse grained sub to euhedral arsenopyrite. The concentration of pyrrhotite has decreased to trace. At 58.11-58.85 m there are thin bands of pinkish brown volcaniclastic layers, some with minor chlorite layers. Overall the concentration of talc has decreased to trace overall.
58.85	62.39	3.54	VOL	ALT		BD	50		f				MAG	s								Very dark grey to black volcaniclastic with thin tan/green stringers of sericite alteration that occur at 50 deg to CA. The volcaniclastic contains a strong concentration of magnetite along with small patches of calcite. The lower contact is gradational with leopard print volcaniclastic.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
62.39	71.63	9.24	LEP	ALT	FO	FO	60			w			MAG	w								Gradual transition into leopard printed volcaniclastic. Overall the pattern is medium grained. The upper 2 m contains weakly disseminated magnetite generally concentrated in non-spotted bands. There is a weak foliation to the unit that occurs at 60 deg to CA. Weakly concentrated sericite and patchy alteration occurs throughout, but is slightly more concentrated within the upper 2.5 m.
																						68.85-71.63 m: The concentration of dark grey-black non-spotted volcaniclastic with only trace magnetite increases. There bands follow the foliation at 60 deg to CA and are 5-25 cm thick with a slightly mottled texture.
																						71.63 m: E.O.H. - The hole was ended because it was past the main zone of interest and into the lower leopard spotted volcaniclastic.

GEOTECHNICAL LOG

HOLE: Rau-09-69

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
2.80	3.05	0.25	0.25	100	0.00	0	MS	SW	
3.05	4.57	1.52	0.22	14	0.00	0	MS	SW	
4.57	6.10	1.53	1.13	74	0.49	32	MS	SW	
6.10	7.62	1.52	1.44	95	0.80	53	MS	FR	
7.62	9.14	1.52	1.50	99	1.28	84	MS	FR	
9.14	10.67	1.53	1.53	100	1.42	93	S	FR	
10.67	12.19	1.52	1.52	100	1.45	95	MS	FR	
12.19	13.72	1.53	1.38	90	1.12	73	MS	FR	
13.72	15.24	1.52	1.52	100	1.20	79	MS	FR	
15.24	16.76	1.52	1.49	98	1.26	83	MS	FR	
16.76	18.29	1.53	1.53	100	1.53	100	MS	FR	
18.29	19.81	1.52	1.51	99	1.51	99	MS	FR	
19.81	21.34	1.53	1.53	100	1.46	95	MS	FR	
21.34	22.86	1.52	1.52	100	1.28	84	MS	FR	
22.86	24.38	1.52	1.52	100	1.40	92	MS	FR	
24.38	25.91	1.53	1.50	98	1.47	96	MS	FR	
25.91	27.43	1.52	1.34	88	1.12	74	MS	FR	
27.43	28.96	1.53	1.53	100	1.49	97	MS	FR	
28.96	30.48	1.52	1.48	97	1.25	82	MS	FR	
30.48	32.00	1.52	1.52	100	1.42	93	MS	FR	
32.00	33.53	1.53	1.53	100	1.19	78	MS	FR	
33.53	35.05	1.52	1.38	91	0.62	41	MS	FR	
35.05	36.58	1.53	1.53	100	1.26	82	MS	FR	
36.58	38.10	1.52	1.37	90	0.56	37	MS	FR	
38.10	39.62	1.52	1.52	100	1.16	76	MS	FR	
39.62	41.15	1.53	1.38	90	1.25	82	S	FR	
41.15	42.67	1.52	1.48	97	1.23	81	MS	FR	
42.67	44.20	1.53	1.51	99	0.93	61	MS	FR	
44.20	45.72	1.52	1.52	100	1.52	100	S	FR	
45.72	47.24	1.52	1.50	99	1.50	99	MS	FR	
47.24	48.77	1.53	1.53	100	1.53	100	MS	FR	
48.77	50.29	1.52	1.39	91	1.22	80	MS	FR	
50.29	51.82	1.53	1.44	94	1.38	90	MS	FR	
51.82	53.34	1.52	1.28	84	1.10	72	MS	FR	
53.34	54.86	1.52	1.52	100	1.52	100	MS	FR	
54.86	56.39	1.53	1.42	93	1.35	88	MS	FR	
56.39	57.91	1.52	1.52	100	1.47	97	MS	FR	
57.91	59.44	1.53	1.40	92	0.99	65	MS	FR	
59.44	60.96	1.52	1.52	100	1.31	86	MS	FR	
60.96	62.48	1.52	1.50	99	1.50	99	MS	FR	
62.48	64.01	1.53	1.53	100	1.53	100	MS	FR	
64.01	65.53	1.52	1.41	93	1.41	93	MS	FR	
65.53	67.06	1.53	1.48	97	0.83	54	MS	FR	
67.06	68.58	1.52	1.52	100	1.52	100	MS	FR	
68.58	70.10	1.52	1.40	92	1.07	70	MS	FR	
70.10	71.63	1.53	1.48	97	1.27	83	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
	71.63	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-69

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
2.80	4.57	1.77	0.47	27	G284498	2.0	73	0.01	0.13	27	0.51	
4.57	7.62	3.05	2.57	84	G284499	13.0	73	3.27	0.37	>10000	465.00	
7.62	9.86	2.24	2.23	100	G284500	10.0	73	0.52	0.08	1150	133.00	
9.86	12.19	2.33	2.33	100	G285001	1.0	73	5.59	0.11	>10000	493.00	
12.19	15.24	3.05	2.90	95	G285003	16.0	73	2.93	0.21	>10000	936.00	
15.24	18.29	3.05	3.02	99	G285004	15.0	73	2.81	0.09	>10000	300.00	
18.29	21.34	3.05	3.04	100	G285005	15.0	73	3.83	0.09	>10000	2600.00	
21.34	24.38	3.04	3.04	100	G285006	14.0	73	0.33	0.05	>10000	51.10	
24.38	27.43	3.05	2.84	93	G285008	13.0	73	0.26	0.10	8810	806.00	
27.43	30.48	3.05	3.01	99	G285009	15.0	73	0.22	0.06	4760	178.00	
30.48	33.53	3.05	3.05	100	G285010	14.0	73	0.22	0.08	5640	80.50	
33.53	36.58	3.05	2.91	95	G285011	14.0	73	0.09	0.13	2200	257.00	
36.58	39.62	3.04	2.89	95	G285012	13.5	73	0.29	0.07	3030	100.50	
39.62	42.67	3.05	2.86	94	G285013	13.5	73	1.28	0.09	>10000	112.00	
42.67	45.72	3.05	3.03	99	G285014	13.0	73	0.67	0.07	>10000	111.00	
45.72	48.77	3.05	3.03	99	G285015	16.5	73	0.79	0.21	>10000	100.00	
48.77	51.82	3.05	2.83	93	G285017	16.0	73	7.98	0.14	>10000	181.50	
51.82	54.86	3.04	2.80	92	G285018	15.0	73	2.08	0.07	>10000	127.00	
54.86	57.91	3.05	2.94	96	G285019	15.0	73	6.09	0.14	>10000	190.50	
57.91	58.85	0.94	0.94	100	G285020	5.0	73	2.34	0.11	>10000	100.50	
58.85	60.96	2.11	2.08	99	G285021	9.0	73	0.02	0.04	468	1.09	
60.96	62.39	1.43	1.41	99	G285022	7.0	73	<0.01	0.01	38	0.36	
62.39	64.47	2.08	2.08	100	G285024	9.0	73	0.01	0.06	34	0.24	
-	-	-			G285002	0.3	73	1.57	1.74	>10000	365.00	Standard R-2
-	-	-			G285007	4.0	73	<0.01	<0.01	45	2.44	Blank
-	-	-			G285016	0.3	73	0.47	0.83	6560	109.00	Standard R-1
-	-	-			G285023	4.5	73	<0.01	<0.01	28	0.23	Blank

BOX DENSITY LOG

HOLE: Rau-09-69

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
7	28.02	32.00	6.12	DOL	MX	4.02	80.0	3.07	
15	60.47	64.47	6.12	VOL	ALT	4.13	75.0	2.80	Mixture of magnetite rich volaniclastic and leopard printed volcaniclastic with minor magnetite within.

DENSITY LOG

HOLE: Rau-09-69

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
15.40	DOL	MX		14.5	6.1	1532.7	1106.8	3.59	3.60
24.85	DOL	MX		14.6	6.1	1310.3	891.2	3.05	3.13
60.05	VOL	ALT		15.0	6.1	1322.4	882.0	3.00	3.00
68.35	LEP	ALT		14.6	6.1	1202.6	766.5	2.80	2.76

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-69

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
2.80	LST		0.85	
3.00	LST		3.47	
4.00	LST		0.13	
5.00	DOL	MX	1.19	
6.00	DOL	MX	4.85	
7.00	DOL	MX	0.20	
8.00	DOL	MX	10.30	
9.00	DOL	MX	0.47	
10.00	DOL	MX	0.78	
11.00	DOL	MX	2.15	
12.00	DOL	MX	1.32	
13.00	DOL	MX	0.25	
14.00	DOL	MX	0.08	
15.00	DOL	MX	0.55	
16.00	DOL	MX	1.09	
17.00	DOL	MX	2.04	
18.00	DOL	MX	4.40	
19.00	DOL	MX	2.01	
20.00	DOL	MX	1.44	
21.00	DOL	MX	1.56	
22.00	DOL	MX	5.46	
23.00	DOL	MX	1.49	
24.00	DOL	MX	0.28	
25.00	DOL	MX	7.12	
26.00	DOL	MX	4.97	
27.00	DOL	MX	1.27	
28.00	DOL	MX	1.09	
29.00	DOL	MX	0.95	
30.00	DOL	MX	3.30	
31.00	DOL	MX	5.69	
32.00	DOL	MX	1.61	
33.00	DOL	MX	6.73	
34.00	DOL	MX	8.82	
35.00	DOL	MX	7.59	
36.00	DOL	MX	0.75	
37.00	DOL	MX	0.21	
38.00	DOL	MX	0.65	
39.00	DOL	MX	0.60	
40.00	DOL	MX	2.43	
41.00	DOL	MX	0.92	
42.00	DOL	MX	0.72	
43.00	DOL	MX	0.53	
44.00	DOL	MX	0.70	
45.00	DOL	MX	0.80	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
46.00	DOL	MX	0.68	
47.00	DOL	MX	0.36	
48.00	DOL	MX	0.92	
49.00	DOL	MX	0.35	
50.00	DOL	MX	0.15	
51.00	DOL	MX	0.30	
52.00	DOL	MX	0.20	
53.00	DOL	MX	0.25	
54.00	DOL	MX	0.43	
55.00	DOL	MX	0.28	
56.00	DOL	MX	0.35	
57.00	DOL	MX	0.40	
58.00	DOL	MX	0.18	
59.00	VOL	ALT	2.33	
60.00	VOL	ALT	81.20	
61.00	VOL	ALT	168.00	
62.00	VOL	ALT	145.00	
63.00	LEP	ALT	2.83	
64.00	LEP	ALT	0.73	
65.00	LEP	ALT	2.35	
66.00	LEP	ALT	0.60	
67.00	LEP	ALT	0.57	
68.00	LEP	ALT	0.48	
69.00	LEP	ALT	0.70	
70.00	LEP	ALT	0.55	
71.00	LEP	ALT	0.70	

BOX LOG

HOLE: Rau-09-69

BOX	FROM (m)	TO (m)
1	2.80	8.09
2	8.09	11.89
3	11.89	15.87
4	15.87	19.85
5	19.85	24.12
6	24.12	28.02
7	28.02	32.00
8	32.00	35.97
9	35.97	40.10
10	40.10	44.20
11	44.20	48.12
12	48.12	52.35
13	52.35	56.39
14	56.39	60.47
15	60.47	64.47
16	64.47	68.58
17	68.58	71.63
	71.63	E.O.H.

BOX	FROM (m)	TO (m)

RAU PROJECT

ZONE: Tiger
SECTION: 10+080NW

HOLE: Rau-09-70
CLAIM: Rau 97f

Easting	Northing	Elev.	Depth (m)
528466	7119138	1263	114.3

Contractor: Superior
Drill: Oxide 3

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 13.41 (m) out

Drilling dates: Sept 19-20, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.42	4.42	OVB	
4.42	7.85	3.43	VOL	Oxidized
7.85	10.30	2.45	DOL	Oxidized
10.30	13.72	3.42	DOL	Mineralized
13.72	38.82	25.10	DOL	Mineralized
38.82	55.21	16.39	VOL	Altered
55.21	80.83	25.62	DOL	Mineralized
80.83	88.42	7.59	LST	Dolomitized
88.42	90.76	2.34	VOL	Altered
90.76	106.22	15.46	LST	Dolomitized/Fossiliferous
106.22	111.87	5.65	VOL	
111.87	112.78	0.91	LEP	

SAMPLES

Numbers: G285025-G285077
Batches 74 and 75
Total: 53
Date sent:
Certificate: VA09107971, VA09113008

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-70

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	4.42	4.42	OVB																			
4.42	7.85	3.43	VOL	ALT								I										Very strongly altered medium to dark green-grey-brown clay. Probably altered volcaniclastic. Does not fizz with acid. Rare fragments of green volcaniclastic and medium grey limestone occur. N structures or textures occur within the very consistently massive clay.
7.85	10.30	2.45	DOL	ALT											t	t						Light to medium yellow-orange-brown clay with weak concentration of silvery micaceous flakes. The zone fizzes weakly with acid. Strongly altered creamy and grey medium grained dolomite occur with trace strongly oxidized sulphides probably pyrit and arsenopyrite.
																						From 30.00 m there is a strong concentration of subangular quartz fragments with weak to moderately strong orange-red alteration stain on them.
10.30	13.72	3.42	DOL	MX	BN	BD	70								15	30						Semi-massive to massive pyrite and arsenopyrite within a coarse grained light grey to white dolomite. Most of the dolomite has been replaced with arsenopyrite and pyrite. Arsenopyrite is 15%, pyrite is 30%. The pyrite is subhedral medium grained and weakly banded at 70 deg to CA. The pyrite als clearly overprints the arsenopyrite in a few places. Coarse grained quartz occurs fairly concentrated. I a few spots it appears that the pyrite and arsenopyrite overprint/occur within the quartz. Within the interval there are very rubbly sections of massive pyrite and arsenopyrite. Within the rubbly zones there is weak to moderate orange alteration the dolomite surrounding the pyrite and arsenopyrite. Minor white talc occurs in one of the rubbly zones.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
13.72	38.82	25.10	DOL	MX	BN	BD	60						Tc	m	m	w	w					Medium to coarse grained white to light grey dolomite with bands of fine to medium grained pyrite and patches and disseminated medium to coarse grained arsenopyrite and fine grained patches of pyrrhotite. Banding varies over the interval from 50-70 deg to CA. Light to medium grey talc occurs as both patches within the dolomite and as veins that cut the dolomite at 25-35 deg and less commonly 70 deg to CA.
						VN	30															
						VN	70															
																						The talc veins have a zonational pattern to them. Generally have a core of quartz surrounding by a band of white talc and then surrounded by a band of light-medium grey talc. The white and grey talc bands are most commonly proportional in thickness to each other. Occasionally the patches of talc within the dolomite are a light greenish-grey in colou but more commonly it is white and light to medium grey. Overall talc ~ 5%. The talc veins cut the Py bands and are occasionally cut by them. Po occurs commonly within the talc veins.
								CR														31.30-35.20 m: Decrease in the concentration sulphides to weak pyrite, trace arsenopyrite, and weak pyrrhotite. The host appears finer grained. A weak crackle texture overprints the interval.
																						36.76-37.44 m: Begin to see 0.5-1 cm bands of slightly purple brown volcaniclastic (5% over the interval). The lower contact is extremely sharp at 20 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
38.82	55.21	16.39	VOL	ALT	FO	FO	50			f			Cl	t	w							Purple brown biotite rich volcaniclastic with a weak leopard spotted texture of Ca. Fizzes weakly with acid. A faint foliation occurs defined by taupe-grey sericite stringers in the unit. Very finely disseminated and rare medium grained pyrite occur scattered throughout weakly. Coarse grained quart veins cut at 15 deg to CA and 120 deg to FO. The sericite alteration occurred after the quartz as it weakly cuts it. Minor chlorite alteration occurs at 42.82-42.90 m
						VN	15	120														
			DOL		BN	BD	50								w							42.90-44.46 m: Interval of fine to medium grained light grey dolomite with thin bands, stringers ad disseminations of fine to medium grained dolomite. From 44.20 m begin to get inter-layers of purple-brown volcaniclastic (50/50 with the dolomite). Tota pyrite is weak.
			VOL	ALT	FO	FO	30			ms					w							44.46-55.12 m: Increasingly sericite altered volcaniclastic with Of at 30 deg to CA defined by the stringy sericite alteration. Qz / Ca veins and dolomite veins cut the unit. The quartz calcite are often patchy and irregularly stringy. At 52.00-52.45 m a 1-2 cm medium grained white-light grey dolomite vein cuts at 10 deg to Ca and 100 deg to FO. Fine grained disseminated pyrite occurs throughout.
						VN	10	100														
						CN	30															The lower contact is sharp at 30 deg to CA. Also has more concentrated patches of pyrite associated with this contact.
55.21	80.83	25.62	DOL	MX	BN	BD									f	w						Coarse grained dolomite with bands of pyrite and scattered coarse grained crystals of arsenopyrite scattered throughout. pyrite 5%, arsenopyrite 3%. The dolomite is white to light grey and in zones vuggy between large crystal faces. Small patches of purple grey volcaniclastic occur generally associated with sporadic patches of pyrite. Pyrite bands vary as follows:
																						55.30-59.72 m: BD - 70 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																						59.72-62.00 m: BD - 85 deg to CA
																						62.00-62.50 m: Rare folding of the mineralized dolomite (photo taken).
																						62.50-67.86 m: BD - 75 deg to CA.
						VN	20															At 67.15 m: medium to coarse grained dolomite vein cuts a zone of semi-massive pyrite at 20 deg to CA.
																						NOTE: Within this unit - talc is rare to non existent.
															I	t	t					65.53-67.50 m: There is an increase in the concentration of pyrite to 20%.
															t		w					67.50-69.16 m: The dolomite becomes finer grained and a slightly greyish white colour. Contains white talc and light green fibrous crystals - soft, but not as soft as talc. Weak pyrrhotite and trace pyrite occur.
																						69.16-80.83 m: Medium to very coarse grained white and light grey dolomite with zones of very clearly defined grain boundaries. Wispy patches of purple brown biotite rich zones occur scattered within the first 6 m of the interval (from 67.16-73.80 m). A faint banded texture occurs at 80 deg to CA. Pyrite occurs as fine grained disseminations (weak) along with pyrrhotite (weak).
																						Overprinting white dolomite veins 0.5-1 cm in diameter cut at 20 deg to CA.
																						76.20-79.50 m: The cracks in the dolomite are filled with red-purple stain. Radiating away from the cracks is a faint yellow-orange stain halo.
80.83	88.42	7.59	LST	ALT		VN	10															Dolomitized medium to dark grey limestone with coarse grained white dolomite veins that cut at 10, 20 and 40 deg to CA. Also black stringy veins 0.5-1 cm thick cut the limestone but at cut by the dolomite. These occur at 25 deg to the CA. (They resemble the silty horizons that cut the marble). This zone seems like it could be the transition between the limestone and the hydrothermal dolomite.
						VN	20															

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
						VN	40															
						VN	25															
88.42	90.76	2.34	VOL	ALT																		Mostly orange-green brown strongly altered volcaniclastic (?). Does not look very typical. The less altered parts have a fine spotted texture. Weak patchy pyrite occurs throughout. Possible FO occurs at 40 deg to CA. The lower contact has a 12 cm band of semi-massive pyrite. This could be a possible fault zone???
90.76	106.22	15.46	LST	ALT	FO	FO	75		ms													Medium to dark grey moderately to strongly dolomitized fossiliferous limestone with cross cutting dolomite and or quartz veins at 40 deg to CA. A strong foliation at 75 deg to CA occurs in a few places.
						VN	40															
				FO											w		w					96.35-100.10 m: Purplish brown biotite rich bands defined by the foliation are most concentrated in this zone. Weak pyrite, pyrrhotite occur as fine grained disseminations throughout. Rare crinoids - including perfect star crinoids, occur scattered throughout but most commonly in packed zones of crinoids.
106.22	111.87	5.65	VOL																	Mag	I	Fine grained very dark green to black calcareous volcaniclastic with zones of semi-massive very fine grained magnetite. A weak almost leopard style texture occurs with calcite patches.
111.87	112.78	0.91	LEP																			Leopard spotted volcaniclastic with a medium to large spotted texture.
																						112.78 m: E.O.H. - the hole was ended because it was through the main horizon of interest and into the leopard spotted volcaniclastic.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-70

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
4.42	4.57	0.15	0.15	100	0.00	0	EW	HW	
4.57	6.10	1.53	0.69	45	0.00	0	EW	HW	
6.10	7.62	1.52	1.13	74	0.00	0	EW	HW	
7.62	9.14	1.52	0.62	41	0.00	0	EW	EW	
9.14	10.67	1.53	0.69	45	0.21	14	VW	HW	
10.67	12.19	1.52	0.96	63	0.14	9	W	SW	
12.19	13.72	1.53	1.52	99	0.89	58	MS	SW	
13.72	15.24	1.52	1.46	96	1.08	71	MS	SW	
15.24	16.76	1.52	1.52	100	1.13	74	MS	FR	
16.76	18.29	1.53	1.40	92	0.88	58	MS	SW	
18.29	19.81	1.52	1.52	100	0.24	16	MS	FR	
19.81	21.34	1.53	1.53	100	1.32	86	MS	FR	
21.34	22.86	1.52	1.52	100	1.09	72	MS	FR	
22.86	24.38	1.52	1.52	100	1.45	95	MS	FR	
24.38	25.91	1.53	1.46	95	1.26	82	MS	FR	
25.91	27.43	1.52	1.51	99	1.51	99	MS	FR	
27.43	28.96	1.53	1.44	94	1.25	82	MS	FR	
28.96	30.48	1.52	1.43	94	1.07	70	MS	FR	
30.48	32.00	1.52	1.52	100	1.14	75	MS	FR	
32.00	33.53	1.53	1.53	100	1.49	97	MS	FR	
33.53	35.05	1.52	1.52	100	1.21	80	MS	SW	
35.05	36.58	1.53	1.49	97	1.49	97	MS	FR	
36.58	38.10	1.52	1.52	100	0.81	53	MS	SW	
38.10	39.62	1.52	1.35	89	0.90	59	MS	SW	
39.62	41.15	1.53	1.49	97	1.05	69	MS	FR	
41.15	42.67	1.52	1.52	100	1.50	99	MS	FR	
42.67	44.20	1.53	1.41	92	0.80	52	MS	FR	
44.20	45.72	1.52	1.38	91	0.89	59	MS	SW	
45.72	47.24	1.52	1.48	97	0.66	43	MS	SW	
47.24	48.77	1.53	1.53	100	0.94	61	MS	SW	
48.77	50.29	1.52	1.52	100	1.46	96	MS	FR	
50.29	51.82	1.53	1.36	89	1.36	89	MS	FR	
51.82	53.34	1.52	1.34	88	1.34	88	MS	FR	
53.34	54.86	1.52	1.45	95	1.24	82	MS	FR	
54.86	56.39	1.53	1.53	100	1.44	94	MS	FR	
56.39	57.91	1.52	1.28	84	1.13	74	MS	FR	
57.91	59.44	1.53	1.53	100	1.53	100	MS	FR	
59.44	60.96	1.52	1.52	100	1.52	100	MS	FR	
60.96	62.48	1.52	1.52	100	1.47	97	MS	FR	
62.48	64.01	1.53	1.53	100	1.47	96	MS	FR	
64.01	65.53	1.52	1.46	96	1.38	91	MS	FR	
65.53	67.06	1.53	1.47	96	1.37	90	MS	FR	
67.06	68.58	1.52	1.52	100	1.39	91	MS	FR	
68.58	70.10	1.52	1.52	100	1.38	91	MS	FR	
70.10	71.63	1.53	1.53	100	1.53	100	MS	FR	
71.63	73.15	1.52	1.52	100	1.27	84	MS	FR	

GEOTECHNICAL LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
73.15	74.68	1.53	1.52	99	1.20	78	MS	FR	
74.68	76.20	1.52	1.45	95	1.20	79	MS	FR	
76.20	77.72	1.52	1.43	94	1.07	70	MS	FR	
77.72	79.25	1.53	1.53	100	1.28	84	MS	FR	
79.25	80.77	1.52	1.52	100	1.37	90	MS	FR	
80.77	82.30	1.53	1.53	100	1.13	74	MS	FR	
82.30	83.82	1.52	1.42	93	0.80	53	MS	FR	
83.82	85.34	1.52	1.52	100	1.45	95	MS	FR	
85.34	86.87	1.53	1.41	92	1.20	78	MS	FR	
86.87	88.39	1.52	1.52	100	1.04	68	MS	SW	
88.39	89.92	1.53	1.28	84	0.50	33	MS	FR	
89.92	91.44	1.52	1.52	100	1.15	76	MS	FR	
91.44	92.96	1.52	1.32	87	1.17	77	MS	FR	
92.96	94.49	1.53	1.53	100	1.53	100	MS	FR	
94.49	96.01	1.52	1.52	100	1.30	86	MS	FR	
96.01	97.54	1.53	1.53	100	1.50	98	MS	FR	
97.54	99.06	1.52	1.52	100	1.52	100	MS	FR	
99.06	100.58	1.52	1.52	100	1.30	86	MS	FR	
100.58	102.11	1.53	1.33	87	0.55	36	MS	FR	
102.11	103.63	1.52	1.38	91	0.70	46	MS	FR	
103.63	105.16	1.53	1.53	100	1.28	84	MS	FR	
105.16	106.68	1.52	1.52	100	1.34	88	MS	FR	
106.68	108.20	1.52	1.50	99	1.43	94	MS	FR	
108.20	109.73	1.53	1.52	99	1.34	88	MS	FR	
109.73	111.25	1.52	1.38	91	1.38	91	MS	FR	
111.25	112.78	1.53	1.53	100	0.12	8	MS	FR	
	112.78	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-70

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
4.42	6.10	1.68	1.00	60	G285025	3.0	73	0.02	0.38	104	4.71	
6.10	7.85	1.75	1.52	87	G285026	4.0	73	0.02	0.34	317	5.50	
7.85	10.30	2.45	1.17	48	G285027	3.0	74	0.11	1.66	>10000	195.00	
10.30	12.19	1.89	1.50	79	G285028	8.0	74	0.98	0.16	>10000	566.00	
12.19	13.72	1.53	1.50	98	G285030	9.0	74	0.62	0.14	>10000	1040.00	
13.72	16.76	3.04	3.00	99	G285031	13.0	74	1.54	0.10	>10000	342.00	
16.76	19.81	3.05	2.90	95	G285032	12.0	74	0.39	0.18	9320	353.00	
19.81	22.86	3.05	3.05	100	G285033	14.0	74	1.67	0.08	>10000	532.00	
22.86	25.91	3.05	3.00	98	G285035	14.5	74	4.00	0.07	>10000	260.00	
25.91	28.96	3.05	2.95	97	G285036	13.5	74	1.46	0.09	>10000	337.00	
28.96	31.30	2.34	2.20	94	G285038	11.0	74	0.41	0.11	9750	461.00	
31.30	33.53	2.23	1.62	73	G285039	10.0	74	0.23	0.12	1940	2130.00	
33.53	35.20	1.67	1.67	100	G285040	6.5	74	0.04	0.03	509	38.30	
35.20	37.05	1.85	1.80	97	G285041	7.5	74	0.83	0.11	2040	334.00	
37.05	38.82	1.77	1.75	99	G285042	8.0	74	0.24	0.20	3080	153.50	
38.82	40.73	1.91	1.73	91	G285043	7.0	74	0.14	0.89	570	12.85	
40.73	42.90	2.17	2.17	100	G285044	8.0	74	0.06	0.02	102	22.40	
42.90	44.46	1.56	1.43	92	G285045	7.0	74	2.36	0.05	7340	47.30	
44.46	47.24	2.78	2.35	85	G285046	12.0	74	0.12	0.02	2690	21.20	
47.24	50.29	3.05	3.05	100	G285047	13.0	74	0.16	<0.01	103	10.50	
50.29	53.34	3.05	2.71	89	G285048	11.0	74	0.73	<0.01	44	28.10	
53.34	55.12	1.78	1.78	100	G285049	7.5	74	0.09	0.05	153	57.10	
55.12	57.91	2.79	2.62	94	G285050	11.0	74	0.07	0.08	4020	141.00	
57.91	60.96	3.05	3.05	100	G285051	13.0	74	0.33	0.03	6340	53.10	
60.96	63.60	2.64	2.64	100	G285052	12.5	74	1.63	0.08	>10000	188.00	
63.60	65.53	1.93	1.89	98	G285053	8.5	74	1.03	0.10	948	215.00	
65.53	67.50	1.97	1.92	97	G285054	10.0	74	2.49	0.11	3260	343.00	
67.50	69.16	1.66	1.66	100	G285056	7.0	74	0.16	0.07	26	46.50	
69.16	71.63	2.47	2.45	99	G285057	10.0	74	0.22	0.09	57	195.00	
71.63	74.41	2.78	2.67	96	G285059	11.0	74	0.23	0.16	775	75.10	
74.41	76.20	1.79	1.78	99	G285060	7.0	74	0.01	0.41	156	7.20	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
76.20	78.32	2.12	2.06	97	G285061	8.5	74	0.13	3.11	92	65.30	
78.32	80.80	2.48	2.48	100	G285062	10.5	74	0.52	0.60	135	17.00	
80.80	83.82	3.02	2.89	96	G285063	13.0	75	0.07	0.10	55	62.60	
83.82	86.29	2.47	2.45	99	G285064	11.0	75	0.02	0.02	40	22.60	
86.29	88.43	2.14	2.14	100	G285065	9.0	75	0.06	0.05	123	28.90	
88.43	90.76	2.33	2.14	92	G285066	9.5	75	0.04	0.15	869	7.84	
90.76	93.78	3.02	2.89	96	G285068	13.0	75	0.01	0.06	23	10.25	
93.78	96.01	2.23	2.23	100	G285069	11.0	75	<0.01	0.05	13	5.18	
96.01	99.06	3.05	3.01	99	G285070	14.0	75	0.65	0.03	46	39.50	
99.06	102.11	3.05	2.96	97	G285071	13.5	75	0.05	0.14	43	69.50	
102.11	105.16	3.05	2.94	96	G285072	12.5	75	0.07	0.50	70	30.60	
105.16	106.44	1.28	1.19	93	G285073	6.0	75	0.11	0.22	95	36.80	
106.44	109.00	2.56	2.56	100	G285074	12.5	75	<0.01	0.20	53	3.30	
109.00	111.85	2.85	2.77	97	G285076	11.0	75	<0.01	0.12	3	0.14	
111.85	112.70	0.85	0.85	100	G285077	4.0	75	<0.01	0.40	13	0.11	
-	-	-			G285029	4.0	74	<0.01	0.01	829	1.85	
19.81	22.86	3.05			G285034	6.0	74	1.93	0.07	>10000	531.00	Duplicate
-	-	-			G285037	0.3	74	5.50	0.43	>10000	476.00	Standard R-1
-	-	-			G285055	4.0	74	<0.01	0.01	9	1.10	Blank
-	-	-			G285058	0.3	74	0.49	0.92	6540	99.00	Standard R-1
-	-	-			G285067	4.0	75	<0.01	<0.01	<5	0.09	Blank
-	-	-			G285075	0.3	75	1.56	1.67	25600	352.00	Standard R-2

DENSITY LOG

HOLE: Rau-09-70

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
52.40	VOL			14.8	6.1	1244.4	807.3	2.86	2.85
63.15	DOL			14.3	6.1	1292.0	865.8	3.07	3.03
98.90	LST	DOL		15.0	6.1	1313.6	865.1	2.98	2.93
106.70	MAG			14.4	6.1	1572.0	1139.8	3.71	3.64

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-70

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.42	VOL	ALT	0.05	
5.00	VOL	ALT	2.04	
6.00	VOL	ALT	2.31	
7.00	VOL	ALT	1.10	
8.00	DOL	ALT	0.11	
9.00	DOL	ALT	0.18	
10.00	DOL	ALT	0.53	
11.00	DOL	MX	0.11	
12.00	DOL	MX	0.20	
13.00	DOL	MX	0.21	
14.00	DOL	MX	4.83	
15.00	DOL	MX	1.71	
16.00	DOL	MX	2.04	
17.00	DOL	MX	3.24	
18.00	DOL	MX	8.04	
19.00	DOL	MX	7.81	
20.00	DOL	MX	1.62	
21.00	DOL	MX	1.17	
22.00	DOL	MX	1.51	
23.00	DOL	MX	2.63	
24.00	DOL	MX	1.37	
25.00	DOL	MX	0.47	
26.00	DOL	MX	0.82	
27.00	DOL	MX	4.58	
28.00	DOL	MX	2.75	
29.00	DOL	MX	1.49	
30.00	DOL	MX	4.03	
31.00	DOL	MX	7.20	
32.00	DOL	MX	14.20	
33.00	DOL	MX	0.58	
34.00	DOL	MX	3.93	
35.00	DOL	MX	2.55	
36.00	DOL	MX	5.05	
37.00	DOL	MX	0.77	
38.00	DOL	MX	0.70	
39.00	VOL	ALT	0.43	
40.00	VOL	ALT	8.26	
41.00	VOL	ALT	2.60	
42.00	VOL	ALT	9.86	
43.00	VOL	ALT	0.16	
44.00	VOL	ALT	0.28	
45.00	VOL	ALT	0.65	
46.00	VOL	ALT	0.42	
47.00	VOL	ALT	1.88	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
48.00	VOL	ALT	0.68	
49.00	VOL	ALT	3.07	
50.00	VOL	ALT	2.26	
51.00	VOL	ALT	3.71	
52.00	VOL	ALT	9.37	
53.00	VOL	ALT	15.40	
54.00	VOL	ALT	11.30	
55.00	VOL	ALT	0.25	
56.00	DOL	MX	2.30	
57.00	DOL	MX	0.65	
58.00	DOL	MX	2.57	
59.00	DOL	MX	0.50	
60.00	DOL	MX	0.42	
61.00	DOL	MX	0.47	
62.00	DOL	MX	0.36	
63.00	DOL	MX	0.26	
64.00	DOL	MX	0.21	
65.00	DOL	MX	0.31	
66.00	DOL	MX	0.53	
67.00	DOL	MX	0.35	
68.00	DOL	MX	0.63	
69.00	DOL	MX	1.96	
70.00	DOL	MX	1.36	
71.00	DOL	MX	1.83	
72.00	DOL	MX	0.73	
73.00	DOL	MX	5.05	
74.00	DOL	MX	1.10	
75.00	DOL	MX	0.40	
76.00	DOL	MX	0.23	
77.00	DOL	MX	0.11	
78.00	DOL	MX	0.68	
79.00	DOL	MX	0.30	
80.00	DOL	MX	0.33	
81.00	LST	ALT	0.43	
82.00	LST	ALT	0.26	
83.00	LST	ALT	0.53	
84.00	LST	ALT	0.42	
85.00	LST	ALT	0.45	
86.00	LST	ALT	0.72	
87.00	LST	ALT	0.38	
88.00	LST	ALT	0.38	
89.00	VOL	ALT	1.47	
90.00	VOL	ALT	1.07	
91.00	LST	ALT	1.46	
92.00	LST	ALT	0.40	
93.00	LST	ALT	0.29	

MAGNETIC SUSCEPTIBILITY LOG

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
94.00	LST	ALT	1.24	
95.00	LST	ALT	0.34	
96.00	LST	ALT	0.97	
97.00	LST	ALT	1.06	
98.00	LST	ALT	0.43	
99.00	LST	ALT	0.48	
100.00	LST	ALT	0.46	
101.00	LST	ALT	0.37	
102.00	LST	ALT	0.33	
103.00	LST	ALT	0.36	
104.00	LST	ALT	0.44	
105.00	LST	ALT	0.48	
106.00	LST	ALT	1.20	
107.00	VOL		675.00	Magnetite
108.00	VOL		1.03	
109.00	VOL		0.33	
110.00	VOL		0.36	
111.00	VOL		0.37	
112.00	LEP		0.32	

BOX LOG

HOLE: Rau-09-70

BOX	FROM (m)	TO (m)	BOX	FROM (m)	TO (m)
1	4.42	10.30			
2	10.30	14.70			
3	14.77	18.65			
4	18.65	22.67			
5	22.67	26.92			
6	26.92	31.10			
7	31.10	35.20			
8	35.20	38.37			
9	38.37	43.45			
10	43.45	47.24			
11	47.24	51.36			
12	51.36	55.45			
13	55.45	59.72			
14	59.72	63.60			
15	63.60	67.86			
16	67.86	70.10			
17	70.10	74.41			
18	74.41	78.32			
19	78.32	82.21			
20	82.21	86.29			
21	86.29	90.22			
22	90.22	94.43			
23	94.43	98.51			
24	98.51	102.71			
25	102.71	106.68			
26	106.68	110.73			
27	110.73	112.78			
	112.78	E.O.H.			

RAU PROJECT

ZONE: Tiger
SECTION: 10+150NW

HOLE: Rau-09-71
CLAIM: Rau 98f

Easting	Northing	Elev.	Depth (m)
528434	7119193	1285	141.73

Contractor: Superior
Drill: Oxide 3

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	228	-60	compass				

Core size: HQ
Casing depth: 3.05 (m) out

Drilling dates: Sept 21- 23, 2009

Logged by: J. Lane

Target: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	4.39	4.39	OVB	
4.39	7.95	3.56	LST	Oxidized
7.95	25.91	17.96	OX	Clay rich
25.91	41.61	15.70	DOL	Mineralized
41.61	51.46	9.85	LEP	
51.46	59.44	7.98	DOL	Mineralized
59.44	66.63	7.19	LST	Dolomitized
66.63	115.35	48.72	DOL	Mineralized
115.35	124.97	9.62	LST	Fossiliferous
124.97	141.73	16.76	LEP	

SAMPLES

Numbers: G285078-G285143
Batches 75, 76 & 77
Total: 65
Date sent:
Certificate: VA09113008, VA09111373
Va09111372

COMMENTS

GEOLOGY LOG

HOLE: Rau-09-71

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
0.00	4.39	4.39	OVB																			
4.39	7.95	3.56	LST	ALT																		Medium grey moderately to strongly clay altered limestone. The less altered fragments are sub-rounded and angular. The more altered zones are altered to medium grey clay with a strong concentration of subangular limestone fragments. The entire unit fizzes strongly with acid. (COLOUR 5Y 4/1 - dark grey)
7.95	25.91	17.96	OX	CLY																		Gritty oxide clay zone grading in colour between bright orange-brown to medium red brown sideritic oxide fragments.
																						7.95-10.67 m: Medium orange brown oxide clay with moderate concentration of clay. There is a moderate concentration yellow mica fragments scattered throughout the interval. (COLOUR - 5YR 4/6 - yellowish red).
																						10.67-16.76 m: Slightly reddish brown gritty slightly rubbly oxide with fair to strong concentration of clay coating the fragments. Weak yellow micaceous flakes occur scattered throughout. (COLOUR 2.5 YR 3/6 - dark red).
																						16.67-25.91 m: Medium orange-brown to orange-red-brown oxide clay with only fair gritty fragments and a fair concentration of yellow micaceous flakes. (COLOUR 5YR 4/6 - yellowish red)
25.91	41.61	15.70	DOL	MX	BN	BD	70								f					Bi	t	Medium grained cream to orangish pink tinted dolomite with patches and very thin bands of pyrite (fair) at 70 deg to CA. Arsenopyrite also occurs as fine to medium grained patches throughout.
																						25.91-27.00 m: Poorly recovered transition zone between the oxide and the mineralized dolomite. It consists of rubble dolomite coated in gritty oxide clay.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
																				Bi	40	39.15-39.16 m: Very coarse grained bismuthinite occurs within a vuggy bands in the dolomite. The bladed crystals are up to 1.5 cm in length.
			VOL		FO	FO	50															39.51-40.17 m: Interval of green-grey slightly altered calcareous volcaniclastic with foliation running at 50 deg to CA.
			DOL		BN	BD	50															40.17-41.61 m: White to light grey, medium grained dolomite with thin bands of pyrite running at 50 deg to CA.
41.61	51.46	9.85	LEP		FO	FO	60															Medium grey, medium to large printed leopard printed volcaniclastic with then sericitic stringers altering the zone in a patchy texture. A faint foliation occurs at 60 deg to CA.
						VN	5															Calcite veins cut the unit at 5,10 and 40 deg to CA.
						VN	10															
						VN	40															
																						47.24-48.77 m: There is a zone of magnetite within the leopard print volcaniclastic. At 48.43-48.49 m, there is a white calcite vein with coarse grained cubic magnetite crystals.
																						48.65-49.40 m: This is a zone where the foliation have been irregularly disturbed.
																						50.09-51.46 m: The sericite alteration becomes much more intense. Within this zone there is a set of low angle 1 cm calcite veins running at 5 deg to CA.
51.46	59.44	7.98	DOL	MX	BN	BD	55								f							White to light grey medium grained dolomite with thin bands 1-3 mm thick of pyrite that occur at 55 deg to CA. These bands are not perfect, rather they are irregular and more patchy than through going. Within the dolomite there are bands of medium to dark grey argillaceous material containing patches of calcite that are being replaces by pyrite. These bands occur at the following locations:
																						56.95-57.02 m, 57.52-57.61 m, 57.65-58.37 m.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
59.44	66.63	7.19	LST	ALT	BX	VN	50								w							Medium grey dolomitized limestone with a fair overprinting fluid brecciated texture and cross cutting dolomite +/- quartz veins 0.5 cm thick cutting at 50 deg to CA. Patchy and disseminated pyrite occurs scattered throughout weakly, not in any particular banded pattern. The pyrite seems more concentrated surrounding the Dol +/- Qz. Fractured surfaces have a fair orange brown alteration stain o them.
																						NOTE: at 59.44 m there appears to be 25 cm of medium to dark brown oxide clay - but this material fell into the hole from above.
																						62.43-63.77 m: Zone of moderate orange-pink alteration of the dolomitized limestone (Rhodochrosite??)
66.63	115.35	48.72	DOL	MX		VN	5								ms	t	t					White to light grey medium to coarse grained dolomite with thin bands to semi-massive zones of fine to medium grained pyrite and very trace fine grained pyrrhotite and arsenopyrite.
						VN	20															Coarse grained Qz-Dol veins cut the pyrite mineralization at 5 and 20 deg to CA.
																						In some locations the coarse grained dolomite has a vuggy texture between grain boundaries.
															35							69.91-75.29 m: Intense to semi-massive heavily disseminated fine to medium grained pyrite interval.
																						79.25 m: there appears to be 35 cm of dark grey gritty clay material; however, these are just cuttings that fell into the hole.
						BD	80															85.22-89.20 m: Tiger-banded pyrite in coarse grained white to light grey dolomite with banding at 80 deg to CA.
																						89.20-94.81 m: Weak to moderately strong orange-pink (Rhodochrosite?) alteration of the dolomite. Many of the areas are very rubbly with strong alteration on the surfaces.
																						99.06-100.00 m:Low angle dolomite vein 1.5 cm thick running at 50 deg to CA.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOLOGY LOG

INTERVAL			LITHOLOGY			STRUC.			ALTERATION						MINERALS							DETAILED DESCRIPTION
													Other					Other		Other		
From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Dolomite	Sericite	Calcification	Oxidation	Type	Intensity	Pyrite	Arsenopyrite	Pyrrhotite	Type	Intensity	Type	Intensity	
															w							102.65-115.35 m: Moderate to strong rhodochrosite alteration of medium to coarse grained dolomite. The entire interval has a yellowish orange tint with weak patchy pyrite.
																						108.20-109.30 m: A strong crackle network occurs with a zone of strong brecciation occurring from 109.00-109.30 m.
115.35	124.97	9.62	LST	FOS	BN	BD	60								t							Medium to dark grey fine to very fine grained limestone with bedding defined by colour variations in the limestone occurring in bands at 60 deg to CA. Fair 0.2-0.4 cm crinoid stem fragments occur scattered throughout and in compact zones. Trace fine grained disseminated pyrite.
																						120.80 m: a fine crackle texture in the dark grey/black limestone is filled with white material.
124.97	141.73	16.76	LEP		FO	FO	60			15												Medium to coarse printed brownish grey and white leopard printed volcaniclastic.
																						126.64-141.73 m: Begin to get a more typical leopard printed volcaniclastic. Bands of fine grained sericite altered volcaniclastic (15% overall) Calcite veins cut at 60 deg to the CA. A weak foliation of the patches occurs at 60 deg to CA.
																						E.O.H. - 141.73 - the hole was ended because it was past the horizon of interest and well into the leopard printed volcaniclastic.

n = none, t= <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, I = 15-20%, (write % for >20%)

GEOTECHNICAL LOG

HOLE: Rau-09-71

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Hardness	Weathering	Comments
4.39	4.57	0.18	0.18	100	0.00	0	W	MW	
4.57	6.10	1.53	0.10	7	0.00	0	W	MW	
6.10	7.62	1.52	0.60	39	0.00	0	W	MW	
7.62	9.14	1.52	0.64	42	0.00	0	VW	EW	
9.14	10.67	1.53	0.79	52	0.00	0	EW	EW	
10.67	12.19	1.52	0.77	51	0.00	0	EW	EW	
12.19	13.72	1.53	0.92	60	0.00	0	EW	EW	
13.72	15.24	1.52	0.70	46	0.00	0	EW	EW	
15.24	16.76	1.52	0.81	53	0.00	0	EW	EW	
16.76	18.29	1.53	0.52	34	0.00	0	EW	EW	
18.29	19.81	1.52	0.39	26	0.00	0	EW	EW	
19.81	21.34	1.53	1.30	85	0.00	0	EW	EW	
21.34	22.86	1.52	0.98	64	0.00	0	EW	EW	
22.86	24.38	1.52	0.28	18	0.00	0	EW	EW	
24.38	25.91	1.53	1.13	74	0.00	0	VW	EW	
25.91	27.43	1.52	0.91	60	0.31	20	MS	MW	
27.43	28.96	1.53	1.35	88	0.87	57	MS	MW	
28.96	30.48	1.52	1.43	94	0.56	37	MS	MW	
30.48	32.00	1.52	1.52	100	1.38	91	MS	MW	
32.00	33.53	1.53	1.53	100	0.97	63	MS	MW	
33.53	35.05	1.52	1.43	94	0.32	21	MS	MW	
35.05	36.58	1.53	0.68	44	0.25	16	MS	MW	
36.58	38.10	1.52	1.52	100	1.19	78	MS	MW	
38.10	39.62	1.52	1.52	100	0.89	59	MS	MW	
39.62	41.15	1.53	1.17	76	0.54	35	MS	SW	
41.15	42.67	1.52	1.52	100	0.55	36	MS	SW	
42.67	44.20	1.53	1.37	90	0.13	8	MS	SW	
44.20	45.72	1.52	1.43	94	0.88	58	MS	SW	
45.72	47.24	1.52	1.52	100	1.34	88	MS	SW	
47.24	48.77	1.53	1.53	100	1.48	97	MS	SW	
48.77	50.29	1.52	1.52	100	1.27	84	MS	SW	
50.29	51.82	1.53	1.53	100	1.48	97	MS	SW	
51.82	53.34	1.52	1.52	100	1.52	100	MS	SW	
53.34	54.86	1.52	1.50	99	1.36	89	MS	SW	
54.86	56.39	1.53	1.42	93	1.42	93	MS	SW	
56.39	57.91	1.52	1.52	100	0.90	59	MS	SW	
57.91	59.44	1.53	1.35	88	0.68	44	MS	SW	
59.44	60.96	1.52	1.52	100	1.23	81	MS	SW	
60.96	62.48	1.52	1.34	88	0.88	58	MS	SW	
62.48	64.01	1.53	1.35	88	0.93	61	MS	SW	
64.01	65.53	1.52	1.44	95	1.01	66	MS	MW	
65.53	67.06	1.53	1.53	100	1.29	84	MS	SW	
67.06	68.58	1.52	1.45	95	1.40	92	MS	SW	
68.58	70.10	1.52	1.52	100	1.32	87	MS	SW	
70.10	71.63	1.53	1.37	90	1.37	90	MS	FR	
71.63	73.15	1.52	1.40	92	1.36	89	MS	FR	

GEOTECHNICAL LOG

73.15	74.68	1.53	1.53	100	1.47	96	MS	FR	
74.68	76.20	1.52	1.49	98	1.45	95	MS	FR	
76.20	77.72	1.52	1.52	100	1.44	95	MS	FR	
77.72	79.25	1.53	1.43	93	1.43	93	MS	FR	
79.25	80.77	1.52	1.52	100	1.47	97	MS	FR	
80.77	82.30	1.53	1.37	90	1.37	90	MS	FR	
82.30	83.82	1.52	1.33	88	1.17	77	MS	FR	
83.82	85.34	1.52	1.52	100	1.26	83	MS	FR	
85.34	86.87	1.53	1.53	100	1.53	100	MS	FR	
86.87	88.39	1.52	1.37	90	1.37	90	MS	FR	
88.39	89.92	1.53	1.53	100	1.17	76	MS	SW	
89.92	91.44	1.52	1.10	72	0.46	30	MS	MW	
91.44	92.96	1.52	1.34	88	0.28	18	MS	HW	
92.96	94.49	1.53	1.33	87	1.01	66	MS	MW	
94.49	96.01	1.52	1.48	97	0.98	64	MS	SW	
96.01	97.54	1.53	1.45	95	1.21	79	MS	SW	
97.54	99.06	1.52	1.45	95	1.10	72	MS	SW	
99.06	100.58	1.52	1.52	100	1.45	95	MS	SW	
100.58	102.11	1.53	1.34	88	1.31	86	MS	SW	
102.11	103.63	1.52	1.44	95	1.24	82	MS	SW	
103.63	105.16	1.53	1.53	100	1.20	78	MS	SW	
105.16	106.68	1.52	1.50	99	1.00	66	MS	MW	
106.68	108.20	1.52	1.40	92	0.68	45	MS	MW	
108.20	109.73	1.53	1.48	97	1.42	93	MS	MW	
109.73	111.25	1.52	1.50	99	1.40	92	MS	MW	
111.25	112.78	1.53	1.53	100	1.30	85	MS	MW	
112.78	114.30	1.52	1.20	79	0.67	44	MS	HW	
114.30	115.82	1.52	1.48	97	0.48	32	MS	MW	
115.82	117.35	1.53	1.53	100	1.13	74	MS	FR	
117.35	118.87	1.52	1.52	100	0.77	51	MS	FR	
118.87	120.39	1.52	1.50	99	1.23	81	MS	FR	
120.39	121.92	1.53	1.53	100	1.39	91	MS	FR	
121.92	123.44	1.52	1.48	97	1.20	79	MS	FR	
123.44	124.97	1.53	1.52	99	1.30	85	MS	FR	
124.97	126.49	1.52	1.52	100	1.20	79	MS	FR	
126.49	128.02	1.53	1.49	97	0.69	45	MS	FR	
128.02	129.54	1.52	1.48	97	0.58	38	MS	FR	
129.54	131.06	1.52	1.51	99	0.49	32	MS	FR	
131.06	132.59	1.53	1.44	94	1.14	75	MS	FR	
132.59	134.11	1.52	1.52	100	1.38	91	MS	FR	
134.11	135.64	1.53	1.40	92	1.34	88	MS	FR	
135.64	137.16	1.52	1.50	99	1.45	95	MS	FR	
137.16	138.68	1.52	1.46	96	1.29	85	MS	FR	
138.68	140.21	1.53	1.53	100	1.46	95	MS	FR	
140.21	141.73	1.52	1.48	97	0.71	47	MS	FR	
	141.73	E.O.H.							

SAMPLE LOG

HOLE: Rau-09-71

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
4.39	6.10	1.71	0.28	16	G285078	1.0	75	0.08	2.91	534	28.1	
6.10	7.95	1.85	0.95	51	G285079	4.0	75	0.63	5.75	2170	161.5	
7.95	10.67	2.72	1.14	42	G285080	3.0	75	7.57	1.04	20000	1100	
10.67	13.72	3.05	1.69	55	G285081	6.0	75	4.50	0.62	23000	2000	
13.72	15.24	1.52	1.52	100	G285083	2.0	75	2.32	0.65	36100	1850	
15.24	16.76	1.52	0.81	53	G285084	3.0	75	5.97	0.34	34800	376	
16.76	18.29	1.53	0.52	34	G285085	2.0	75	7.61	0.26	43200	430	
18.29	19.81	1.52	0.39	26	G285086	1.0	75	6.81	4.77	25300	1960	
19.81	22.86	3.05	2.28	75	G285087	8.0	75	1.61	0.32	15600	1115	
22.86	24.38	1.52	0.28	18	G285088	1.0	75	0.70	0.61	12300	409	
24.38	25.91	1.53	1.13	74	G285090	3.0	75	1.51	0.84	2710	181.5	
25.91	27.43	1.52	0.91	60	G285091	2.0	75	0.25	0.19	1120	145	
27.43	30.48	3.05	2.78	91	G285092	11.0	75	0.50	0.07	1400	162.5	
30.48	33.53	3.05	3.05	100	G285093	13.0	75	0.57	0.07	2520	140.5	
33.53	36.58	3.05	2.11	69	G285095	9.0	75	0.15	0.04	1540	38.5	
36.58	39.51	2.93	2.93	100	G285096	13.0	75	0.34	0.26	757	47.4	
39.51	40.17	0.66	0.56	85	G285097	2.5	75	0.33	<0.01	699	45.6	
40.17	41.61	1.44	1.20	83	G285098	5.5	75	0.26	0.07	875	70.9	
41.61	44.20	2.59	2.31	89	G285099	10.0	76	0.05	0.49	154	19	
44.20	47.24	3.04	2.95	97	G285100	12.0	76	0.01	0.13	106	0.48	
47.24	48.77	1.53	1.53	100	G285101	7.0	76	<0.01	0.31	6	0.12	
48.77	50.05	1.28	1.28	100	G285102	6.0	76	0.01	0.32	17	0.12	
50.05	51.46	1.41	1.41	100	G285103	6.5	76	0.17	0.34	52.9	29.8	
51.46	54.30	2.84	2.84	100	G285104	13.0	76	0.23	0.06	6960	80	
54.30	57.32	3.02	2.91	96	G285105	13.0	76	0.44	0.08	3020	82.5	
57.32	59.44	2.12	2.00	94	G285106	9.0	76	0.92	0.24	642	53.4	
59.44	62.48	3.04	2.90	95	G285107	11.5	76	0.03	0.08	312	44.4	
62.48	63.77	1.29	1.15	89	G285109	4.5	76	0.06	0.08	819	62.9	
63.77	66.63	2.86	2.53	88	G285110	13.0	76	0.11	0.14	1020	27.4	
66.63	68.58	1.95	1.95	100	G285111	9.0	76	0.20	0.30	1240	435	
68.58	69.91	1.33	1.33	100	G285112	6.5	76	0.22	0.14	1230	434	

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
69.91	72.96	3.05	2.75	90	G285113	15.5	76	0.75	0.73	3850	1075	
72.96	75.29	2.33	2.33	100	G285115	12.5	76	0.37	0.28	3020	791	
75.29	77.72	2.43	2.43	100	G285116	12.0	76	0.31	0.22	2470	271	
77.72	80.77	3.05	3.04	100	G285117	16.0	76	0.31	0.59	3260	669	
80.77	83.82	3.05	2.69	88	G285118	14.5	76	0.32	0.73	2500	273	
83.82	85.22	1.40	1.40	100	G285120	6.5	76	0.21	0.45	1880	119.5	
85.22	87.53	2.31	2.31	100	G285121	11.0	76	0.03	0.43	479	181.5	
87.53	89.20	1.67	1.56	93	G285122	9.0	76	0.03	0.22	693	179.5	
89.20	91.86	2.66	2.32	87	G285124	10.0	76	0.01	1.46	736	279	
91.86	94.81	2.95	2.55	86	G285125	11.0	76	0.03	0.10	382	176.5	
94.81	97.54	2.73	2.64	97	G285126	12.0	76	<0.01	0.05	205	166	
97.54	100.58	3.04	3.04	100	G285127	14.5	76	0.01	0.30	173	38.5	
100.58	102.65	2.07	1.89	91	G285128	9.0	76	<0.01	1.69	167	30.8	
102.65	105.16	2.51	2.51	100	G285129	11.0	76	0.02	10.10	273	166.5	
105.16	108.20	3.04	2.97	98	G285130	12.0	76	0.02	4.25	351	246	
108.20	111.25	3.05	3.05	100	G285131	11.5	76	0.07	0.95	558	111	
111.25	112.63	1.38	1.38	100	G285132	6.0	76	0.04	1.00	420	170	
112.63	115.35	2.72	2.54	93	G285134	11.0	76	0.02	0.67	771	84.2	
115.35	118.28	2.93	2.93	100	G285135	12.5	77	0.42	0.09	146	74.3	
118.28	121.29	3.01	2.97	99	G285136	12.5	77	0.22	0.09	37	66.4	
121.29	123.44	2.15	2.15	100	G285137	9.0	77	0.01	0.09	28	2.09	
123.44	126.64	3.20	3.20	100	G285139	16.5	77	0.01	0.13	70.7	0.28	
126.64	129.54	2.90	2.42	83	G285141	12.5	77	<0.01	0.10	36.5	0.59	
129.54	132.34	2.80	2.78	99	G285142	12.5	77	<0.01	0.08	19.6	0.2	
-	-	-			G285082	4.0	75	<0.01	<0.01	22	0.78	Blank
-	-	-			G285089	0.3	75	0.56	0.73	6030	96.9	Standard R-1
30.48	33.53	3.05	3.05	100	G285094	7.0	75	0.42	0.04	3140	125	Duplicate
-	-	-			G285108	0.3	76	1.55	1.71	25200	328	Standard R-2
-	-	-			G285114	4.0	76	<0.01	0.02	33	2.76	Blank
80.77	83.82	3.05	2.69	88	G285119	6.5	76	0.32	0.67	2390	257	Duplicate
-	-	-			G285123	4.0	76	0.01	0.01	8	1.41	Blank
-	-	-			G285133	0.3	76	5.18	0.24	47500	442	Standard R-3

SAMPLE LOG

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample	Sample Weight	Batch	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Comments
-	-	-			G285140	0.3	77	1.60	1.49	24600	328	Standard R-2
-	-	-			G285143	4.0	77	<0.01	0.12	13	0.1	Blank

BOX DENSITY LOG

HOLE: Rau-09-71

Box #	From (m)	To (m)	Diameter (cm)	Unit	Modifier	Recovery	Weight (Lb)	Density	Comments:
2	12.19	18.45	6.12	OX	CLY	3.08	46	2.30	
3	18.45	25.03	6.12	OX	CLY	3.24	47	2.24	
5	30.33	34.32	6.12	DOL	DOL	4.03	78	2.98	

DENSITY LOG

HOLE: Rau-09-71

Depth (m)	Unit	Modifier	Comments	Length (cm)	Diameter (cm)	Dry weight	Wet Weight	Density	Specific Gravity
57.95	DOL	MX		14.9	6.1	1226.8	795.1	2.80	2.84
73.25	DOL	MX		15.1	6.1	1717.1	1286.2	3.87	3.98
86.40	DOL	MX		14.7	6.1	1400.7	979.8	3.24	3.33
111.30	DOL	MX	~5% void space	14.3	6.1	1160.0	750.8	2.76	2.83
123.75	LST	FOS		14.4	6.1	1178.3	756.6	2.78	2.79

MAGNETIC SUSCEPTIBILITY LOG

HOLE: Rau-09-71

Depth (m)	Unit	Modifier	Magnetic Susceptiblity	Comments
4.39	LST	ALT	0.95	
5.00	LST	ALT	0.42	
6.00	LST	ALT	0.10	
7.00	LST	ALT	0.48	
8.00	OX	CLY	0.77	
9.00	OX	CLY	0.87	
10.00	OX	CLY	0.89	
11.00	OX	CLY	0.82	
12.00	OX	CLY	0.53	
13.00	OX	CLY	0.55	
14.00	OX	CLY	0.67	
15.00	OX	CLY	0.68	
16.00	OX	CLY	0.65	
17.00	OX	CLY	0.52	
18.00	OX	CLY	0.52	
19.00	OX	CLY	0.68	
20.00	OX	CLY	0.55	
21.00	OX	CLY	0.53	
22.00	OX	CLY	0.38	
23.00	OX	CLY	0.53	
24.00	OX	CLY	0.36	
25.00	OX	CLY	0.57	
26.00	DOL	MX	0.21	
27.00	DOL	MX	0.43	
28.00	DOL	MX	0.18	
29.00	DOL	MX	0.36	
30.00	DOL	MX	0.28	
31.00	DOL	MX	0.31	
32.00	DOL	MX	0.36	
33.00	DOL	MX	0.31	
34.00	DOL	MX	0.26	
35.00	DOL	MX	0.06	
36.00	DOL	MX	0.20	
37.00	DOL	MX	0.26	
38.00	DOL	MX	0.31	
39.00	DOL	MX	0.23	
40.00	DOL	MX	0.10	
41.00	DOL	MX	0.23	
42.00	LEP		1.29	
43.00	LEP		1.39	
44.00	LEP		0.18	
45.00	LEP		0.25	
46.00	LEP		0.53	
47.00	LEP		0.53	

MAGNETIC SUSCEPTIBILITY LOG

48.00	LEP		46.90	
49.00	LEP		1.04	
50.00	LEP		0.50	
51.00	LEP		1.14	
52.00	DOL	MX	0.48	
53.00	DOL	MX	0.45	
54.00	DOL	MX	0.65	
55.00	DOL	MX	0.52	
56.00	DOL	MX	0.48	
57.00	DOL	MX	0.95	
58.00	DOL	MX	0.26	
59.00	DOL	MX	0.38	
60.00	LST	ALT	0.21	
61.00	LST	ALT	0.16	
62.00	LST	ALT	0.11	
63.00	LST	ALT	0.31	
64.00	LST	ALT	0.45	
65.00	LST	ALT	0.31	
66.00	LST	ALT	0.20	
67.00	DOL	MX	0.43	
68.00	DOL	MX	0.40	
69.00	DOL	MX	0.15	
70.00	DOL	MX	0.11	
71.00	DOL	MX	0.26	
72.00	DOL	MX	0.10	
73.00	DOL	MX	0.11	
74.00	DOL	MX	0.10	
75.00	DOL	MX	0.30	
76.00	DOL	MX	0.36	
77.00	DOL	MX	0.38	
78.00	DOL	MX	0.55	
79.00	DOL	MX	0.31	
80.00	DOL	MX	0.25	
81.00	DOL	MX	0.20	
82.00	DOL	MX	0.20	
83.00	DOL	MX	0.26	
84.00	DOL	MX	0.45	
85.00	DOL	MX	0.25	
86.00	DOL	MX	0.21	
87.00	DOL	MX	0.26	
88.00	DOL	MX	0.21	
89.00	DOL	MX	0.25	
90.00	DOL	MX	0.57	
91.00	DOL	MX	0.25	
92.00	DOL	MX	0.30	
93.00	DOL	MX	0.36	
94.00	DOL	MX	0.57	
95.00	DOL	MX	0.30	
96.00	DOL	MX	0.57	
97.00	DOL	MX	0.21	
98.00	DOL	MX	0.57	

MAGNETIC SUSCEPTIBILITY LOG

99.00	DOL	MX	0.54	
100.00	DOL	MX	0.67	
101.00	DOL	MX	0.18	
102.00	DOL	MX	0.47	
103.00	DOL	MX	0.35	
104.00	DOL	MX	0.47	
105.00	DOL	MX	0.33	
106.00	DOL	MX	0.73	
107.00	DOL	MX	0.45	
108.00	DOL	MX	0.60	
109.00	DOL	MX	0.53	
110.00	DOL	MX	0.47	
111.00	DOL	MX	0.48	
112.00	DOL	MX	0.52	
113.00	DOL	MX	0.36	
114.00	DOL	MX	0.31	
115.00	DOL	MX	0.30	
116.00	LST	FOS	1.94	
117.00	LST	FOS	0.84	
118.00	LST	FOS	5.81	
119.00	LST	FOS	3.57	
120.00	LST	FOS	4.26	
121.00	LST	FOS	1.47	
122.00	LST	FOS	2.15	
123.00	LST	FOS	0.13	
124.00	LST	FOS	1.09	
125.00	LEP		0.99	
126.00	LEP		0.15	
127.00	LEP		0.36	
128.00	LEP		2.35	
129.00	LEP		0.38	
130.00	LEP		0.50	
131.00	LEP		0.40	
132.00	LEP		0.28	
133.00	LEP		0.38	
134.00	LEP		0.33	
135.00	LEP		0.30	
136.00	LEP		0.40	
137.00	LEP		0.40	
138.00	LEP		0.33	
139.00	LEP		0.38	
140.00	LEP		0.60	
141.00	LEP		0.40	

BOX LOG

HOLE: Rau-09-71

BOX	FROM (m)	TO (m)
1	4.39	12.19
2	12.19	18.45
3	18.45	25.03
4	25.03	30.33
5	30.33	34.32
6	34.32	38.94
7	38.94	43.10
8	43.10	47.27
9	47.27	51.32
10	51.32	55.31
11	55.31	59.44
12	59.44	63.03
13	63.03	67.06
14	67.06	71.13
15	71.13	75.46
16	75.46	79.25
17	79.25	83.20
18	83.20	87.53
19	87.53	91.86
20	91.86	96.01
21	96.01	100.22
22	100.22	104.54
23	104.54	108.50
24	108.50	112.63
25	112.63	116.55
26	116.55	120.57
27	120.57	124.67
28	124.67	128.33
29	128.33	132.34
30	132.34	136.48
31	136.48	140.45
32	140.45	141.73
	141.73	E.O.H.

BOX	FROM (m)	TO (m)

APPENDIX IX

PETROGRAPHIC REPORT

Petrographic Summary: Rau Sample Suite – Dec. 2009.

Lithologic Environment:

The majority of the samples have been collected from a suite of rocks which would be typical for a shallow, distal, marine environment. In general four major litho types and three facies environments are implied:

a. Shallow Water Dirty Dolomitic Limestones ; (09-41 @ 180.5; 09 – 36 @ 155.45; 09-26 @ 150.5; 09 – 22 @ 175.5; 09-60 @ 78; 09-26 @ 126.49; 09- 37 @ 94.5; 09-52 @ 291.4)

   These rocks are characterized by medium to fine grained dolomitic grains locally with minor, quartz rich inclusions. Opaque carbonaceous layers are sometimes noted in these rocks. Many of them have been extensively recystallized and replaced by secondary iron carbonates.

b. Stratified Calcareous to Non-calcareous Siltites and Lithic Wackes. (09-4 @ 266.8; 09-69 @ 59.8; 09-48 @ 158.2; 09-26 @ 115.5; 09-30 @ 199.5; 09 – 49 @ 262.5; 09-32 @ 96.35; 09 – 44 @ 173.25; 09-04 @ 257.9; 09 – 40 @ 142.65; 09 – 49 @ 266.1; 09 – 40 @ 143.5; 09 – 44 @ 190.5.

   Many of the samples have been taken from a series of thinly bedded, fine to medium grained carbonaceous siltites to lithic wackes. Approximately half the suite is calcareous and the remainder are non-calcareous. Lithic clasts and casts are commonly noted and thin compositional layers are common. Grain size variations suggest most of the rocks likely form part of a deep water turbidite succession.

   Most of these samples contain very high carbonaceous, possibly organic carbon, material largely as foliation parallel mm scale lamella and aggregates. These kinds of carbon contents are common in starved euxinic basins.

   Coarser lithic wacke members could be interpreted as volcaniclastic rocks. However, most of the fragments appear to be lithic, not volcanic in origin, and many of them have experienced significant transport. The volcaniclastic classification would be better suited to less mature tuffaceous sediments.

c. Pebble Conglomerates. (09-4 @ 130.5)

   A single sample might be interpreted as a pebble conglomerate. The sample is polylithic and contains three fragment supported clasts, two of which have similar compositions and the third is of a significantly different composition. There is a distinct possibility that the sample has not been taken from a pebble conglomerate but represents a polylithic intrusion breccia or pebble dyke. The correct interpretation would be better arrived at from larger scale rock relations.

d. Intrusive (dykes-sills) or Flows (09-54 @ 180.9; 09 – 54 @ 193.06).

The sequence contains two fine grained strongly altered volcanic or intrusive rocks. These rocks have distinctive feldspar casts and commonly contain microlithic feldspars within the matrix. They may have elongate quartz filled vesicles. The rocks have generally very weak penetrative fabrics which would tend to suggest that they have been emplaced post D1, i.e. they are dyke or sill like bodies. There a slight probability the these vesicular units are flows. Both of these samples contain sufficient free quartz to suggest that they will lie in a felsic field.

Metamorphic Overprints.

The majority of the data suggests that the stable regional metamorphic assemblage is:

biotite-muscovite-clinozoisite-magnetite+/-garnet+/- phengite+/-chlorite

the rocks can be described as lying within the" chlorite out, biotite in" isograd. The petrogenetic grid for these minerals is quite insensitive to pressure but the "biotite in" isograd may occur between 350 - 400º C. In rocks with high CaO contents garnet may appear at temperatures below 450º and at pressures of 4 – 5 kbar. The general absence of amphiboles in these rocks suggests that the field will also lie on the lower side of the mid-greenschist field.

Many of these rocks contain significant amounts of magnetite. In these samples "magnetite in" is part of a stable metamorphic reaction which occurs within the biotite isograd. It is unlikely to be related to a hydrothermal alteration process.

Deformational Style.

Virtually all of the samples have been affected by a strong regional S1 (D1) fabric. Several samples show weak but reasonable evidence for a second penetrative fabric which deforms and rotates S1 fabrics by D2 processes. Both D1 and D2 processes reflect regional scale shortening or compression and are generally non-rotational.

A single sample displays moderately well developed rotational, or shear fabrics, sample number 09 – 40 @ 142. 65. The sample also displays near orthogonal relationships between early planar fabrics, So (?) and later planar fabrics. This relationship infers that the sample has been collected from a hinge line position of a fold structure whose scale cannot be determined from this sample.

The last deformational process documented in these sections is a post D2 extension. Late extensional, commonly calcite, veins cut all previous fabrics and lithologies.

Hydrothermal Overprints – Rock Alteration

Two differing hydothermal processes are outlined:

1. Large scale replacement textures and sulphidation within dolomites.

Although several samples display well developed replacement reactions between primary and secondary carbonates, one sample (09 – 44 @ 190.5) exhibits superb relationships between matrix silicification, secondary iron carbonates, and the formation of talc sericite. In carbonate rocks the principle alteration assemblage is:

silica-iron carbonate – talc/sericite – sulphide

This is a relatively early alteration form as replacement minerals all have well developed S1 fabrics and therefore the replacement pre-dates D1 deformation. This mineral assemblage is equivalent to the alteration mineralogy documented in many Carlin style gold systems.

2. Discordant Veins and Veinlets.

All rock units may be cut by narrow biotite-quartz-k-feldspar +/- sulphide veins. These extensional veins are also overprinted by S1 fabrics and therefore pre-date D1 deformation. This alteration style is not necessarily linked in space or time to the development of replacement textures and sulphidation of carbonates.

The alteration assemblage in these vein sets is:

biotite-potassium feldspar – quartz – iron carbonate – sulphide

The rock suite contains an abundance of carbonate rich rocks. However, within this petrographic suite, there is no evidence for the development of calc-silicate (skarn) mineral assemblages.

Jim Oliver, Ph.D., P.Geo.,
Kamloops, British Columbia.
Dec. 18, 2009.

Sample 09-44 @ 190.5 Standard Thin Section No Opaque Determinations.

Protolith: Silica – Iron Carbonate Silica Replacement. Probable Dolomite Protolith.

Primary textures are poorly preserved within this rock unit. The presence of coarse white talc-sericite, which commonly flanks fine grained grey quartz suggests that sericite is forming as an alteration halo to silica and the quartz within the sample is of secondary origin. Elevated sulphide contents are also associated with sericite rich domains external to quartz. If the dominant mineralogy is interpreted as primary, than the rock could be interpreted as a siliceous dolomite. It is more likely that most of mineralogy in this rock is secondary.

Mineralogy:

Mineral	*Abundance*	*Grain Size*
Quartz	55 - 60%	0.25 – 0.75 mm
Iron Carbonate	25 – 30%	0.25 – 0.5 mm
Talc-sericite	10-12%	0.5 mm
Apatite:	trace	< 0.1 mm
Clinozoisite-epidote:	1.5-2%	0.2 mm
Sulphide-Oxide Opaques	3-4%	0.25 – 1.0 mm

Clinozoisite-epidote generally forms amorphous poorly formed crystals.

Abundant deformational lamella are noted within all quartz grains. Good trigonal grain boundary development and partial re-sorption is also recognized. Quartz is forming coarse mm scale grains commonly flanked by talc-sericite iron carbonate aggregates. Replacement quartz grains have formed prior to S1 deformation and if quartz is secondary, replacement has occurred prior to D1 deformation.

Talc-sericite grains are noted as both aligned and non-aligned crystals forming post peak strain. These minerals are best developed in association with small irregular quartz grains and irregular buff to brown iron carbonate grains. All three mineral forms are likely secondary. Individual talc-sericite phenocryts are commonly non-aligned but the overall talc-sericite, iron carbonate zones are forming roughly parallel to S1 fabrics.

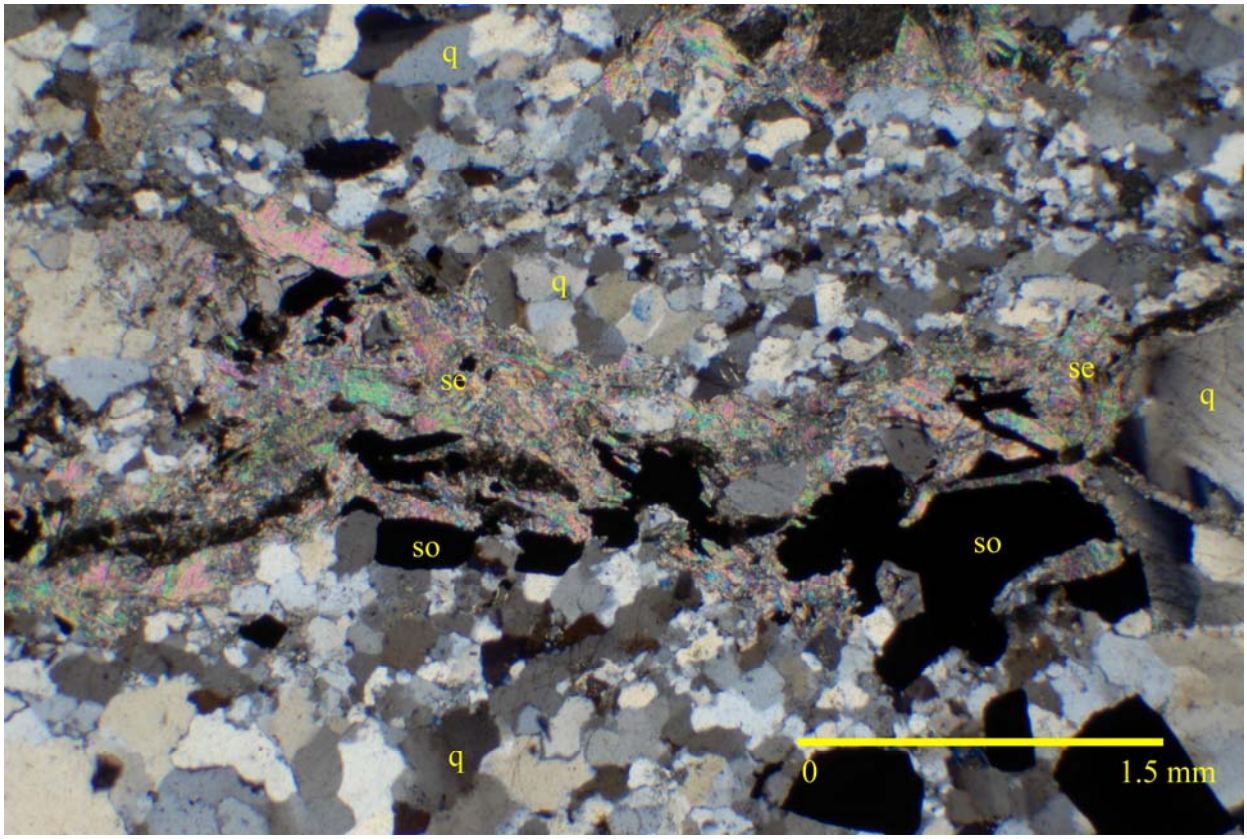
Brown iron carbonates are intimately associated with coarse bladed talc-sericites, and form irregular mm scale compositional bands. Euhedral opaque grains are also spatially related to iron carbonate –talc-sericite zones and are seldom found internally to silica rich zones.

Inclusion morphology: Well rounded, 10-30 micron, dominantly liquid phase inclusions, are documented. Very minor, three phase, liquid-vapor-solid, inclusions are noted. In general, most coherent inclusions are liquid dominant low salinity inclusions.

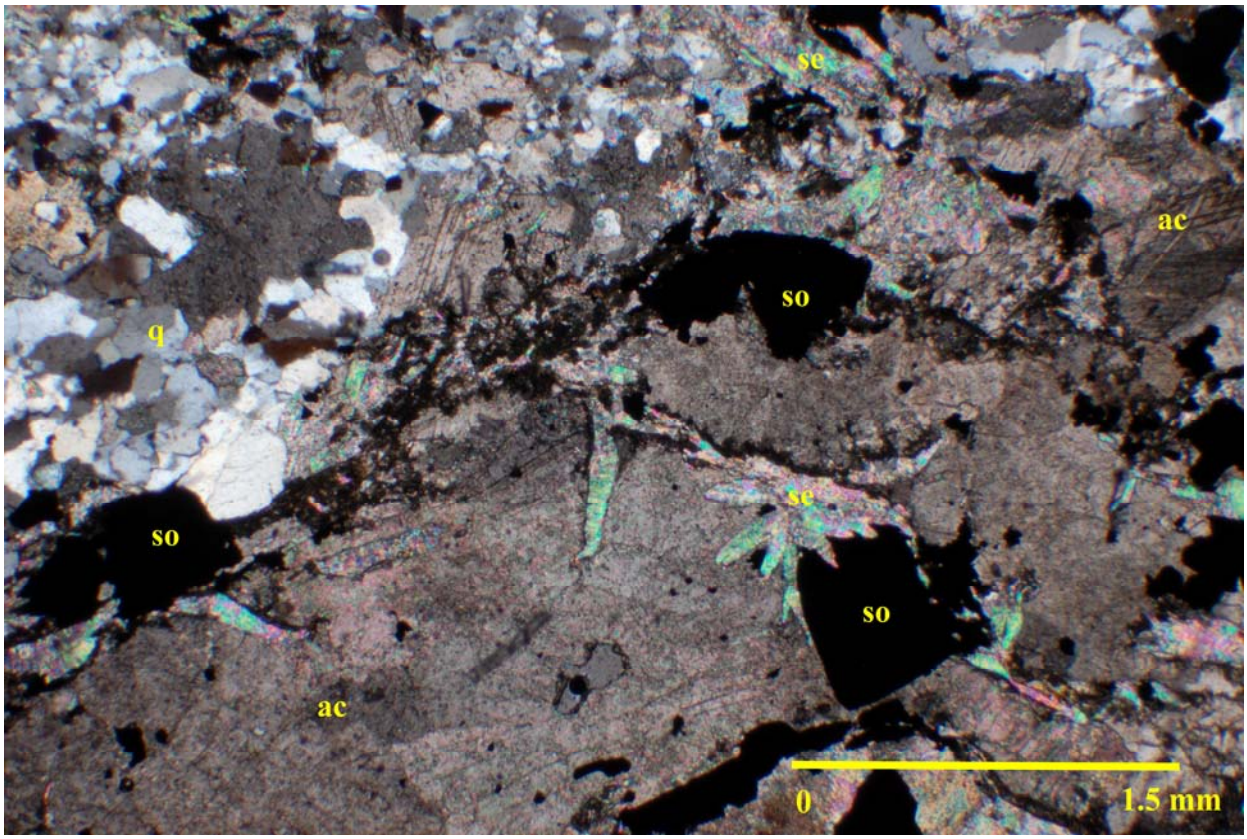
Magnetic Susceptibility: 0.05 SI units.

Deformational Style:

Well formed Type II twin lamella occur within iron carbonates. Sericite forms the dominant foliation surfaces, but flattening fabrics are only modestly developed. Most mineral grains within this sample may have formed post peak strain. No significant development of pressure shadows is recorded and most of the quartz grains are forming coarse mm scale, lozenge shaped scale aggregates.



Sample 09-44 @ 190.5: The photomicrograph illustrates the relationship between moderately to coarse grained quartz and planar zones of sericite-sulphide. Weak petrographic evidence suggests that quartz grains proximal to sericite lamella are coarser grained than quartz phenocrysts distal to sericite lamella. The angular nature of sulphide oxide grains suggests that these minerals have been emplaced in this rock environment relatively late in the strain history of the rock. Abbreviations so: sulphide/oxide, se: sericite, q: quartz. Transmitted light crossed polars, 25x.



Sample 09-44 @ 190.5. The photomicrograph displays the representative alteration assemblage within this rock. The dull brown carbonate in the centre of the field of view is an iron or magnesium rich carbonate. Fine grained, annealed quartz is noted in the upper left field of view and bladed pink-green talc sericites are well illustrated in the central field of view. Most of the euhedral black sulphides/oxides in this rock are associated with iron carbonates and talc sericites. Abbreviations ac: iron carbonates, so: sulphide/oxide, se: talc-sericite, q: quartz. Transmitted light, crossed polars, 25x.

Secondary Alteration Assemblage:

The section suggests that a probable hydrothermal alteration assemblage is:

Quartz-talc/sericite-iron carbonate-sulphide/oxide.

Sample 09-40 @ 143.5 Standard Thin Section, No Opaque Mineral Determinations.

Protolith: Thinly Laminated Moderately Calcareous Carbonaceous Siltite

The protolith is a thinly laminated calcareous siltite. The dark grey black matrix of the rock is caused by an abundance of carbon rich, organic opaques. Net volume of calcite would lie well below that required to interpret this rock as a dirty limestone. The average grain size is less than 0.25 mm and the thin laminations in the unit are suggestive of a distal turbidite.

Mineralogy:

Minerals	*Abundance*	*Grain Size*
Matrix		
Carbonaceous (Non-sulphide) Opaques:	30-35%	0.2 – 0.5 mm
Opaques (Sulphide):	2.0 – 3.0%	0.25 – 1.0 mm
Matrix Calcite/Iron Carbonate	20-25%	< .1 - .25 mm
Matrix Quartz:	28-32%	< .1 - .25 mm
Muscovite-sericite:	3-4%	.1 - .25 mm
Clinozosite-epidote:	1.5-2.0%	.25 - .5 mm
Apatite:	trace	< .1 mm
Vein Quartz:	3-4%	.25 – 1.0 mm
Vein Calcite:	2%	.25 - . 5 mm

Carbonaceous opaques form well defined lamella several mm in width. Within these lamella the volume of carbonaceous opaques may exceed 55%.

Matrix carbonates is most commonly noted within the interstices within the dark carbonaceous lamella. Matrix calcite/iron carbonate has a much weaker distribution in quartz rich lamella.

Quartz rich lamella provide the primary compositional variation within this unit. Quartz has often been deformed into ribbon banded elongate grains.

Muscovite, apatite and clinozoisite have no preferred distribution within this rock mass and are noted as very small disseminated grains throughout the matrix.

Mag Suscept: .02 SI units.

Structural Characteristics - Deformational Style:

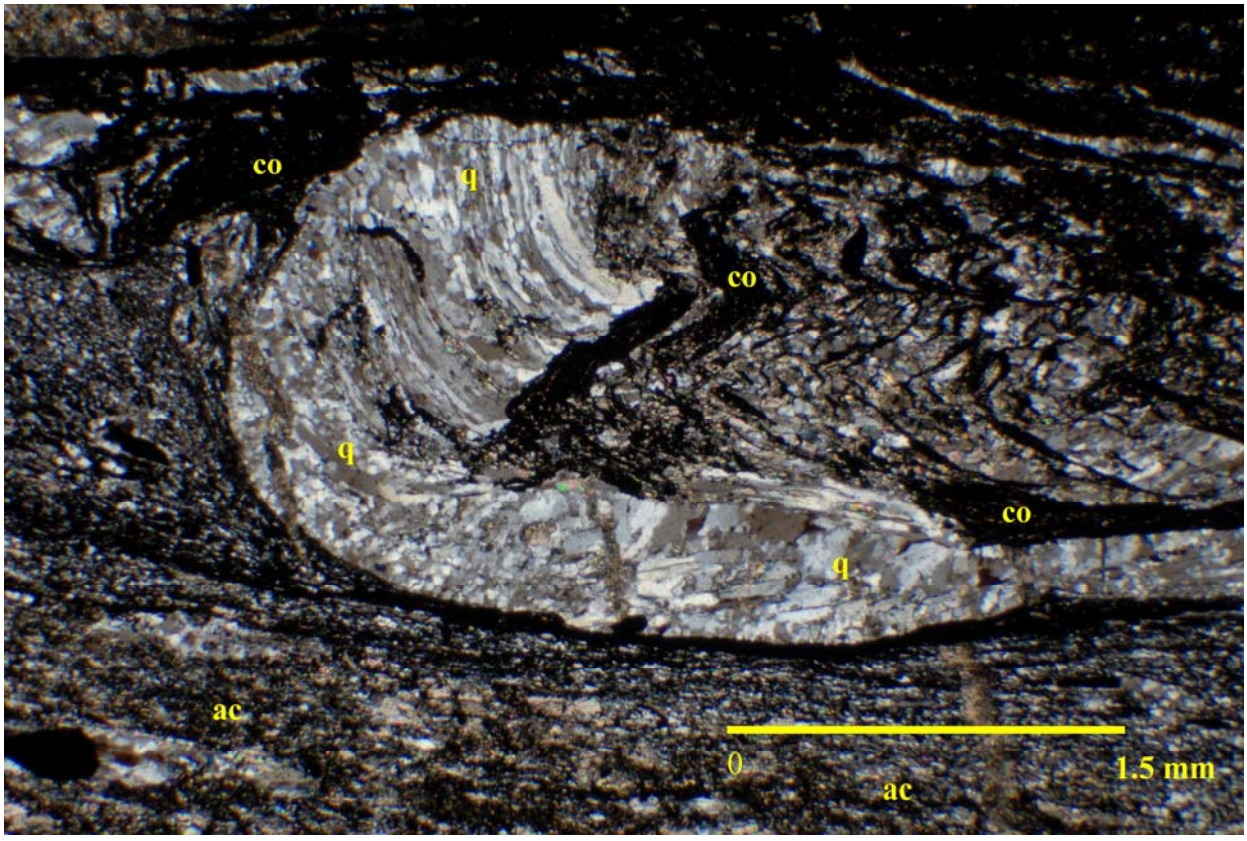
Planar aggregates of carbonaceous opaque material and elongation of matrix quartz grains form an early S1 fabric (D1 deformation). This may be an early compaction fabric which may not be an axial planar fabric. This fabric is deformed into moderately tight

folds with a much weaker penetrative fabric (S2 – D2 deformation) sometimes noted forming at about 15 degrees to the early fabric. Primary compositional layers may be noted at near orthogonal angles to S1 fabrics. This relationship suggest that the sample has been collected from near a fold closure.

Vein Paragenesis:

Two vein sets, of distinct generations, are clearly identified:

1. An early quartz sulphide vein set which pre-dates the small scale isoclines which characterize D2 deformation. Most of these sulphide veins appear to be quartz – sulphide extensional veins.
2. A late calcite only, low sulphide vein set. These veins cut all early fabrics and are likely to have formed late in the regional deformation history. They do not appear to have a sulphide association.
3. In both sulphide-quartz and late calcite veinlets, no significant alteration halos are identified external to vein margins.



Sample 09-40 @ 143.5: The dark black opaque minerals are carbonaceous opaques which form the dominant penetrative, S1 fabric. This fabric has itself been deformed into tight folds locally with transposed limbs. The matrix is composed dominantly of fine grained iron carbonates interposed with lesser quartz grains. The central quartz veinlets have deformed in manner similar to the small fine grained sulphide veinlets noted within this sample. Abbreviations: q – quartz, ac – iron carbonates, co – carbonaceous opaques. Transmitted light, crossed polars, 25 x.

Sample 09 – 37 @ 63.5 Polished Thin Section.

Protolith: Ankeritic Sulphide Vein – Dolomitic Replacement.

No primary textures are preserved in this sample. The sample has likely been taken from an iron carbonate vein or a completely iron carbonate replaced limestone.

Mineralogy:

Mineral	*Abundance*	*Grain Size*
Ankerite/dolomite:	95-97%	0.5 – 3.0 mm
Pyrite:	3.0 – 3.5%	.5 – 2.5 mm
Hematite:	0.5%	< 0.25 mm
Brown Opaques:	2%	< 0.15 mm
Quartz:	0.5-0.75%	0.1-0.25 mm

Coarse iron-magnesium carbonate grains fill the field of view. The grains have stable triple junction boundaries, show no significant evidence of stylolitic cleavages and contain no, or very limited carbonaceous opaque material.

Pyrite grains contain abundant carbonate inclusions but no other contaminants. The optical properties of these pyrite grains suggest they are not significantly zoned. The absence o any gangue material, other than iron carbonates, proximal to the sulphides may suggest that all of the iron carbonates are secondary.

Hematitic is constrained only to small micro-fractures.

Quartz is noted as very small angular inclusions between iron carbonate grain boundaries and to lesser extent as cleavage parallel quartz rich inclusions.

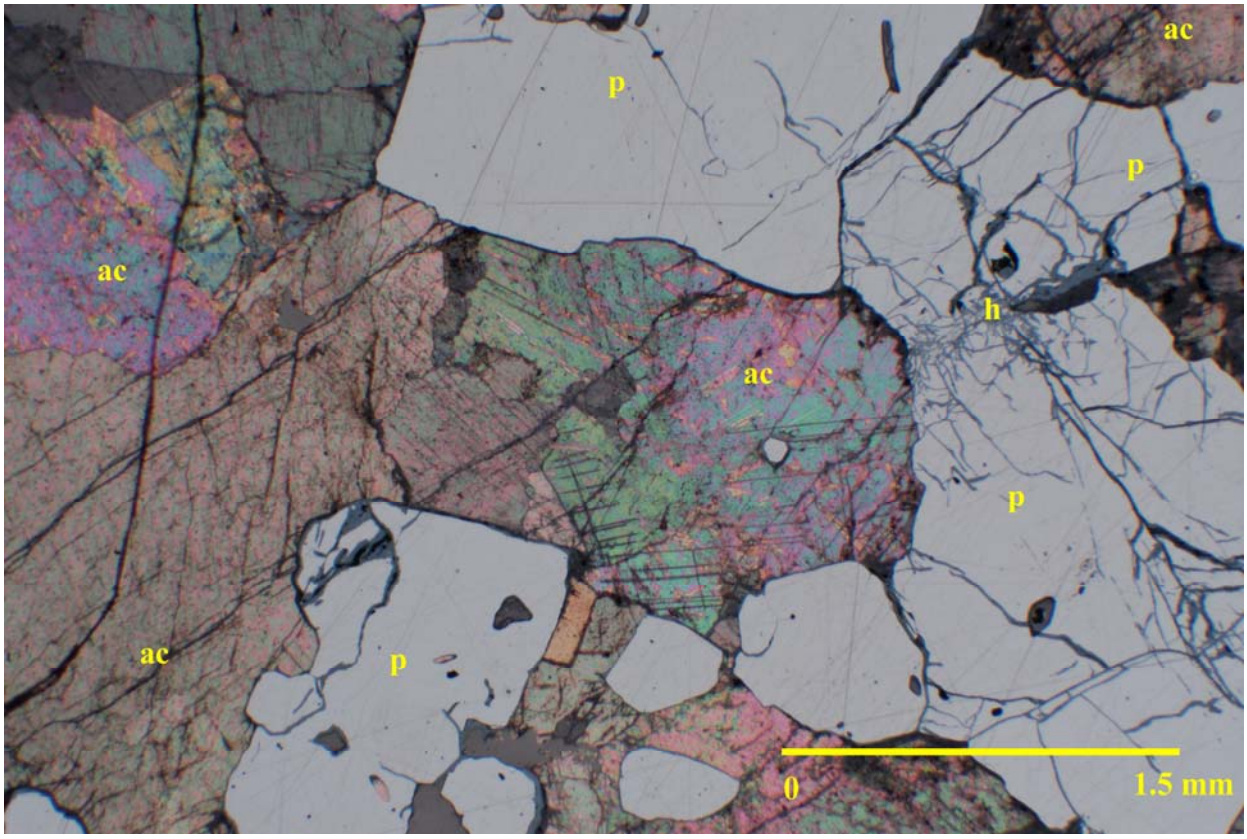
Mag Susceptibility: 0.06 SI units. The sample is essentially non-magnetic.

Deformational Style:

The width of the twin planes and the form of the twin planes within the iron carbonates of this sample can be used as a strain and temperature gauge. The twin planes within these grains are often referred to as Type 1 twin planes. Type 1 twin planes within calcite are thought to form at temperatures of less than 200 C^{o}. *These are very approximate estimates.* These are low temperature twins and this formation of this mineral likely post-dates regional metamorphism. The flanks of the pyrite grains display no evidence of pressure solution shadows which also supports the relatively late and low temperature formation of this mineral.

Inclusion Morphology:

Calcite grains are crowded with small < 10 micron two phase liquid dominant inclusions. These are low salinity inclusions whose morphology suggests they have formed at less than 130 – 300 Cº. These may be both primary and secondary in origin.



Sample 09 – 37 @ 63.5. The sole sulphide phase in this rock is coarse grained euhedral pyrite. The sample has been weakly oxidized and is now cut by small grey iron oxide microveinlets. Coarse grained pink to buff iron carbonates form the remainder of the field. Penetrative fabrics in this sample are weak. Most of the twin planes preserved in the calcite in this sample are narrow single lamella planes or are low temperature Type I deformation twins. Abbreviations: ac – iron carbonates, p: pyrite, h: hematite or iron oxide. Weak transmitted light, strong reflected light, 25x.

Sample SC09-04 @266.8 Standard Thins Section: No Opaque Mineral Determinations.

Protolith: Calcareous, Moderately Sericitized Interbedded Siltites and Lithic Wackes

The rock unit is well defined by mm scale compositional layers which contain a dominance of silt sized, well sorted fragments. Very sporadic well round 0.5 – 20 mm lithic fragments are also noted. No younging directions are observed within this sample although subtle changes in quartz grain content and sulphide laminations could be used, in orientated samples, to confirm younging directions.

The small oval "fragments" noted within this unit are generally porphyroblasts, quartz-biotite overgrowths nucleating around sub mm scale grains.

Mineralogy:

Mineral	*Abundance*	*Grain Size*
Sericite:	45-50%	0.1 – 0.25 mm
Biotite:	8-10%	0.1 – 0.25 mm
Quartz lithics	4-5%	0.2 – 0.4 mm
Plagioclase (corroded)	1.0%	0.5 mm
Matrix quartz	20%	0.1 – 0.25 mm
Iron Carbonate:	3-3.5%	< 0.25 mm
Opaques (sulphide-oxide)	4-4.5%	0.25 mm
Opaques (carbonaceous)	3-5%	< 0.5 mm
Apatite:	trace	< 0.2 mm
Clinozoisite-epidote	< 0.25%	< 0/2 mm

Sericite and biotite form well defined compositional layers. Sericite is noted as very fine grained microliths and biotite forms stubby, medium brown weakly aligned mineral grains. The volume of sericite in this sample suggests that the protolith would likely have been clay, not quartz, rich.

Opaque mineral grains may form diffuse, poorly defined compositional lamella but are more commonly noted within lozenge shaped, up to cm scale, sericitized clasts. Trigonal grain forms on sulphide – oxide opaques, along with magnetic susceptibility data strongly suggests that approximately half of these opaques are likely magnetite group.

The sample reacts weakly to cold HCl and strongly to warm HCl which implies that the very fine grained carbonate phases, commonly flanking oxide or sulphides, are iron-magnesium, not calcium, carbonates.

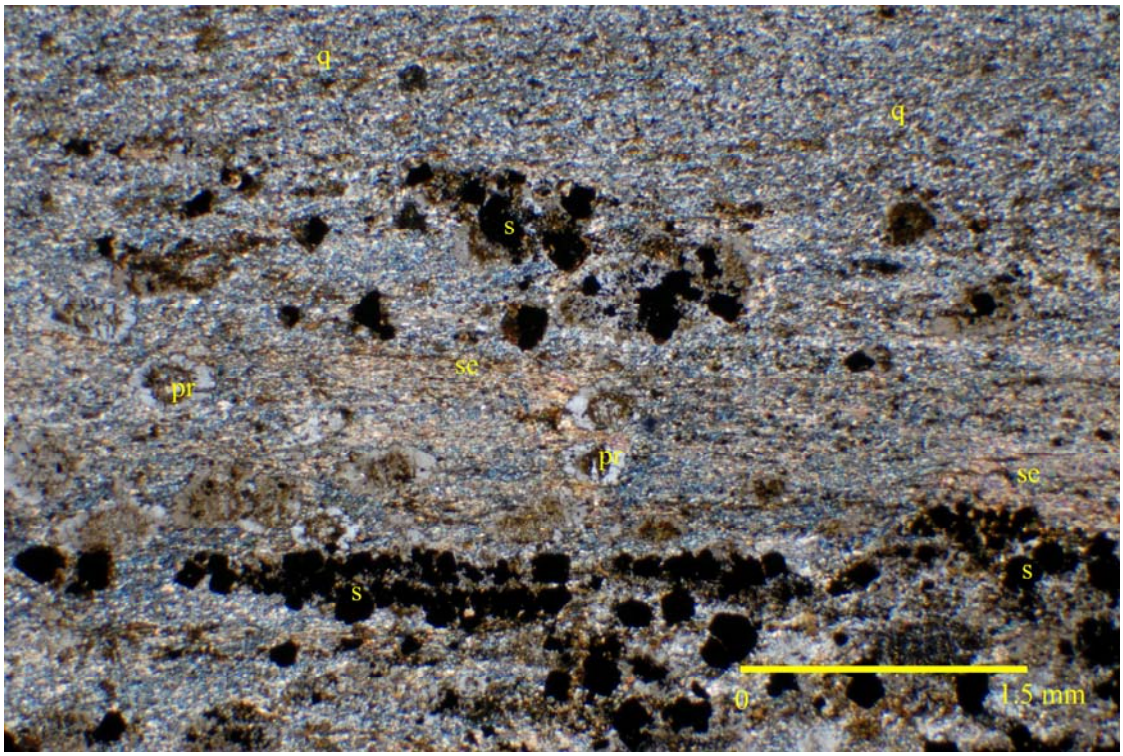
Matrix quartz is most common as discrete quartz grains or as a reaction rim to coarser clasts. Quartz rich lamella are generally absent.

Clinozoisite is distributed as small disseminated grains within oval shaped porphyroblasts. Apatite is noted at trace levels throughout the matrix.

Mag Suscept: 13.3 SI units.

Deformational Style

The rock has a well defined penetrative early S1 foliation formed by the alignment of sericite and biotite. These minerals, as well as the sulphide oxide phases, may define a regional metamorphic assemblage: sericite – biotite – magnetite. In this sample no post S1 deformational processes are identified. S1 fabrics are forming at very low angles, less than 5º to primary compositional layers. The sample has been taken distal to any major fold closures. Quartz is forming well defined early corona structures which is likely synchronous with the formation of S1 fabrics.



Sample SC09-04 @266.8. The upper half of the field of the field is dominated by very fine grained quartz, often less than 0.2 mm in size. Compositional layers in the lower half of the field of view contains bands and laminations of fine grained sericite and quartz. Black opaques, both sulphide and oxide phases, are preferentially concentrated in the lower half of the field of view. Several small porphyroblasts “pr” are identified throughout the matrix and are well defined by the corona structures of quartz which nucleates around central amorphous aggregates of calcite and sericite. All sulphide-oxide phases pre-date, or are synchronous with, the formation of S1 fabrics and are very likely early. Abbreviations pr: porphyroblasts, q: quartz, se: sericite, s: sulphide. Transmitted light, 25x.

Sample 09 – 49 @ 266.1: Standard Thin Section – No Opaque Mineral Determinations

Protolith: Ankeritic Pyritic Mudstone

The protolith of this rock is strongly pyritic, ankeritic or dolomitic mudstone. The protolith is composed dominantly only of very fine grained iron carbonates, diagenetic pyrite (?) and likely a carbonaceous opaque. The rock composition is beginning to move into the field of a micritic sulphidic limestone. The rock is poorly compositionally laminated and appears massive.

Evidence for decalcification textures are inconclusive.

Mineralogy:

Minerals	*Abundance*	*Grain Size*
Micritic iron carbonates	30-35%	< .2 mm
Matrix opaques	40-45%	< .2 mm
Amygdaloidal quartz	5-6%	1.5 – 5 mm.
Amygdaloidal iron carbonates	2-3%	.25 - .5 mm
Sulphide – oxide replacements	10-12%	.5 – 1.5 mm
Sericite – muscovite:	1-1.5%	< 0.25 mm
Sphalerite	trace	< 0.2 mm

Two mineral domains are identified:

1. Micritic dolomitic carbonates are noted as very fine grains and disseminations within the dense black carbonaceous matrix. Very fine grained carbonaceous opaques are found within this domain. No, or very weak, stratification of carbonaceous muds are noted in this domain.
2. Oval vugs or replacements. Much of the quartz, euhedral sulphides/oxides, and coarser grained iron carbonates are contained within these oval shaped replacement zones.

Note: Although sphalerite is identified this has been done only under transmitted light. Small sphalerite grains appear to locally core quartz-carbonate amygdales.

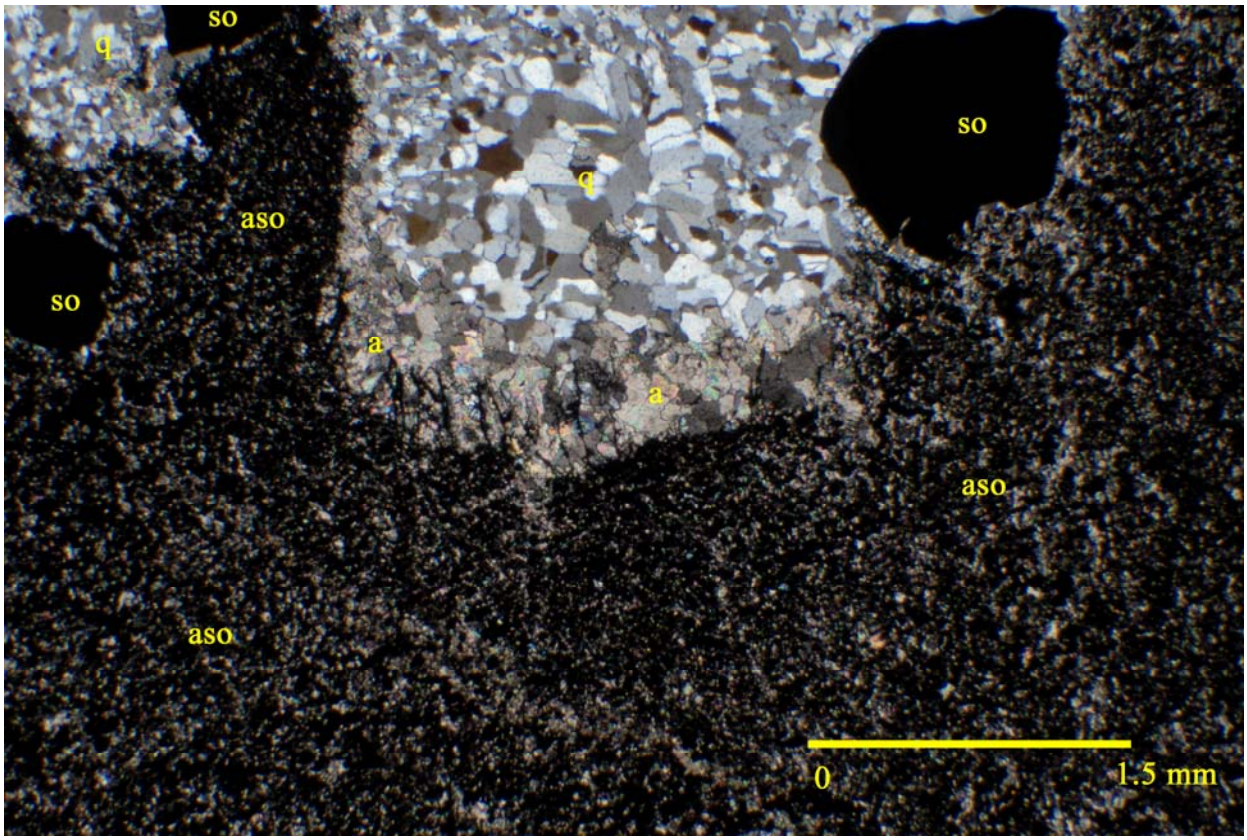
Mag Susceptibility: 0.04 SI units.

Deformational Style:

Pressure shadows are poorly developed within the quartzitic amygdales and overall this essentially bi-mineralic rock displays only a poorly developed penetrative fabric. Deformation twins within calcite are generally low temperature type 1 twins with only rare and poorly developed Type II twins developed. Rock deformation temperatures

between 150 to 300º are inferred. Calcite fiber growth within the amygdales is occurring perpendicular to vesicle walls and exhibits no evidence of rotation or shear strain. All quartz grains within the vesicles have been extensively re-crystallized, stable polysuturing trigonal grain boundaries are common.

Overall penetrative fabrics and or primary compositional layers are poorly developed and are best noted in the macroscale (off-cut) samples. The presence of preserved primary fabrics within this sample suggests that the minute fine grained sulphide phases, which form the bulk of the matrix of these samples may be primary in origin, and have not been introduced post diagenesis.



Sample 09 – 49 @ 266.1. The dominant very fine grained dark brown-black matrix forming the bulk of this field is composed of a bi-mineral assemblage of nearly equal parts of black opaques (sulphide-oxides) with interstitial iron carbonates. Within the matrix the average grain size of opaque mineral phases is less than 0.1 mm, similarly the average size of matrix carbonates is also under 0.2 mm. The iron carbonate rind which forms externally to the quartz filled amygdales may represent a narrow alteration front to these vesicles. All quartz vesicles are strongly polysutured. Sulphide aggregates in this sample have non-planar boundaries and are not related to shear or oblique extensional vein formation. Abbreviations, also: ankerite-sulphide-oxide, q: quartz, a: ankerite or iron carbonate, so: sulphide-oxide. Transmitted light, crossed polars,25x.

Sample 09 – 40 @142.65 Standard Thin Section No Opaque Determinations

Protolith: Calcareous Lithic Wackes – High Strain Zone

Within the same sample strong, structurally related variations in rock composition are noted. The lower third of the sample is a fine grained tan to buff sericite quartz rock with well developed strain fabrics and potentially grain size reduction. Primary fabrics are poorly preserved within this portion of the sample. The upper two thirds of the slide is medium grained carbonate sericite rock with very weak grain size reduction and generally poorly alignment of sericite mineral grains.

Mineralogy:

Mineral	**Abundance**	**Grain Size:**
Matrix		
Sericite – muscovite	55-60	0.2 – 1.0 mm
Calcite-ankerite:	25-30%	0.2 – 0.5 mm
Quartz	3-4%	0.1 – 0.25 mm
Biotite	2-2.5%	< 0.2 mm
Carbonaceous Opaques	2-3%	< 0.2 mm
Sulphide-Oxide Opaques	3.5 – 4.0%	0.75 – 1.5 mm
Vein Mineralogy:		
k-feldspar:	0.5%	< 0.1 mm
quartz:	0.5-0.75%	< 0.1 – 0.3 mm
ankerite-iron carbonates	0.75% - 1.0%	0.1 – 0.4 mm
euhedral sulphides/oxides	< 0.25%	0.1-0.25 mm

The muscovite-sericite in this sample is often pale pink to green in plane polarized light and moderately pleochroic. This suggests that these micas which are distributed throughout the rock unit may be phengites. Coarse grained sericite is best noted as non-aligned disseminations in the low strain portion of the sample with much finer grained sericite forming part of the main rock fabric in the high strain portion of the sample.

Biotite is noted as diffuse aggregates and disseminations in both the low and high strain parts of the sample.

Quartz is noted dominantly within well formed pressure shadows to euhedral sulphide/oxide grains. This mineral is also identified as very small aggregates or disseminations throughout the rock matrix.

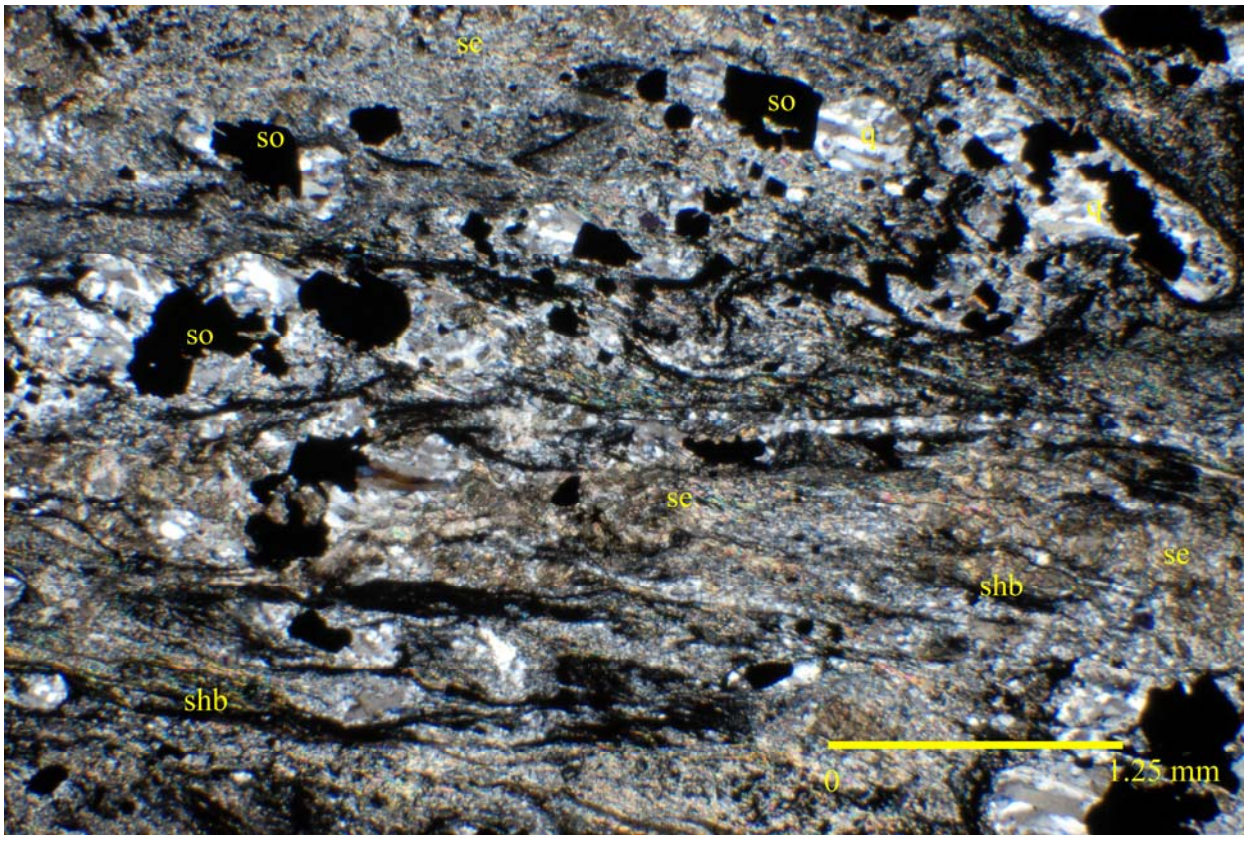
Iron-carbonates and calcite are closely inter grown and are distributed throughout the rock matrix in both the high strain and low strain domain.

Very small, <0.1 mm grains of possible potassium feldspar are noted in the immediate envelopes to small quartz-carbonate grains.

Carbonaceous opaques from sub-mm compositional lamella and define the orientation of the main strain fabric in this rock. Euhedral sulphide-oxide aggregates are recognized in both the low and high stain portions of the sample and are forming without a significant vein association.

Note: a 2-3 mm wide foliation or shear parallel smokey grey quartz veinlet is forms the boundary between high stain zone rocks and low strain rocks; with both strain types noted within this sample. An elevated percentage of sulphide-oxide opaques and formed in the low strain envelop to this portion of the sample.

Magnetic Susceptibility: 0.08 SI units.

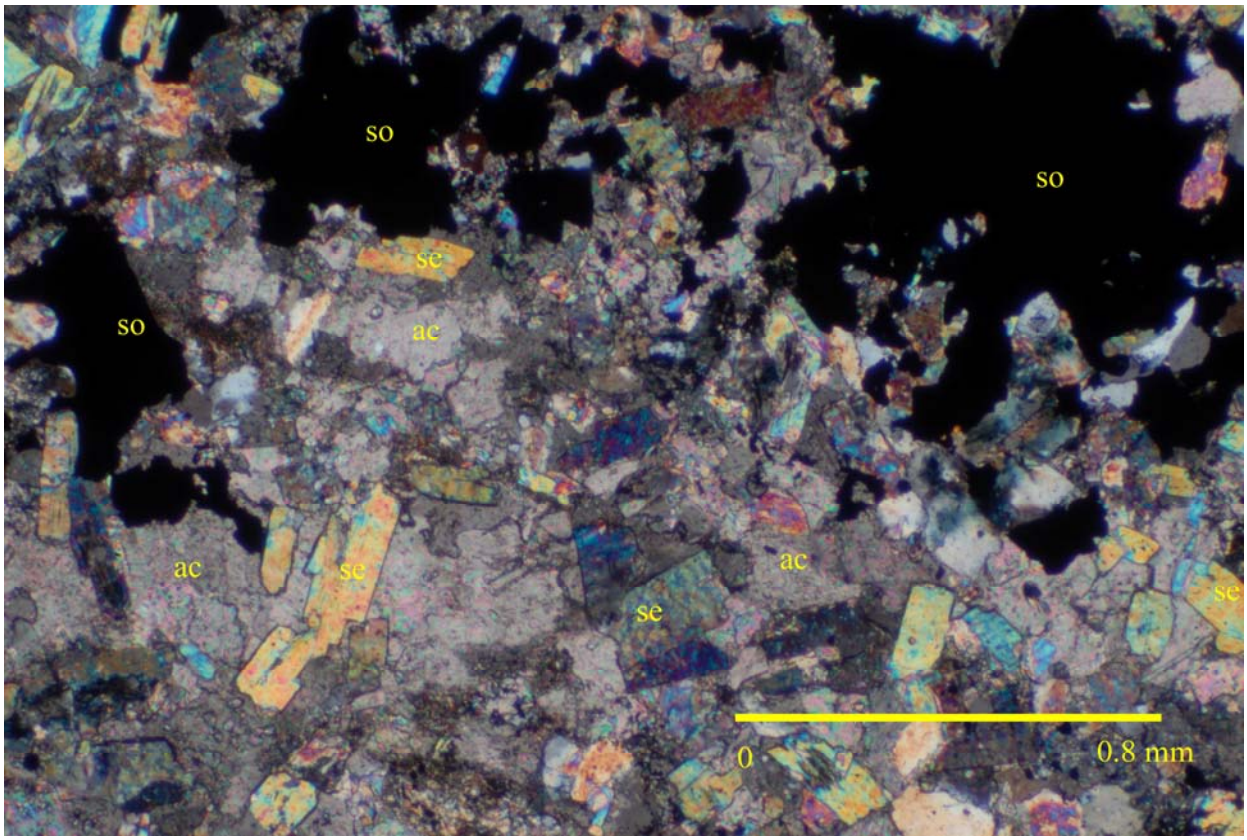


Sample 09 – 40 @142.65. Several lines of evidence clearly support the existence of a high strain zone within portions of this sample. The sample contains abundant well developed shear fabrics (shb) and modest to poorly present rotated quartz pressure solution tails flanking black opaque mineral grains. In comparison to the following plate, the average grain size in this plate averages less than 0.1 mm, grain size reduction within this rock environment is likely. Abbreviations shb: shear band, se: sericite, so: sulphide-oxide, q: quartz. Transmitted light, crossed polars, 25x.

Deformational Style

The strong variation in strain fabric is clearly noted in the two plates which accompany this petrographic summary. Some of the variation within this sample is likely to reflect primary differences in bulk rock composition. High strain fabrics and grain size reduction are best displayed in a sericite – quartz rich protolith. Weak rotational fabrics are noted within this portion of the sample. Non-aligned coarse grained sericites with significantly elevated matrix calcite flank high strain fabrics and may be an alteration halo to this deformation zone. It's also of note that significantly elevated sulphide contents may form in an iron carbonate-calcite rich halo to this high stain zone.

In the high strain portion of the rock, early planar fabrics are roughly orthogonal to later penetrative planar fabrics. Those kinds of orthogonal relationships between cleavage and primary compositional layers will occur in the hinge lines of fold structures. The scale of this fold cannot be determined from the petrographic data.



Sample 09 – 40 @142.65: This photomicraph is separated by less than 10 mm from the photomicrograph illustrated in the previous photomicrograph. The absence of planar penetrative fabrics in this plate conclusively demonstrates the very constrained nature of high strain fabrics in this rock environment. Noteworthy is the absence of strain shadows flanking sulphide/oxide grains and the non-aligned nature of euhedral sericite-muscovite lathes. Much of the rock matrix is composed of anhedral aggregates and massive of iron carbonates. Abbreviations: ac – ankerite calcite; se – sericite, so – sulphide-oxide. Transmitted light, crossed polars, 50x.

Sample 09-04 @ 257.9 Standard Thin Section No Opaque Mineral Identification

Protolith: Carbonaceous Lithic Wackes

The rock unit represents a slightly coarser grained variation of the finer grained siltites commonly noted within this petrographic series. The unit is well characterized by abundant elongate 0.5 x 4.5 mm dark grey clasts and wispy pale cream silica-sericite aggregates. The sample locally contains distinctive definitive lithic fragments. The rock may be classified as a fine grained lithic wacke.

Lithic fragments in this sample are highly elongate to cuspate averaging 0.5 x 3.0 mm. The fragments form three principle groups including dark black lithic fragments, highly elongate pale cream strongly sericitized fragments and lesser clean quartz grains.

The sample contains no significant compositional variations or primary compositional lamella.

Mineralogy:

Mineral	*Abundance*	*Grain Size*
Biotite	20-25%	0.25 mm
Sericite	35-40%	<.1 – 0.25 mm
Quartz	8-10%	0.2 mm
Sulphide-Oxide Opaques	10-12%	0.2 – 0.4 mm
Clinozoisite-epidote	1-1.5%	< 0.15 mm
Zircon	trace	< 0.1 mm
Detrital plagioclase	< 0.25%	0.2 mm

Note: Iron or calcium carbonates are not identified within this sample. Variations in the size and percentage of biotite within compositional layers may reflect primary differences in rock bulk composition. Biotite grains are all forming parallel to S1 fabrics and are commonly enhanced in the pressure shadows to small clasts.

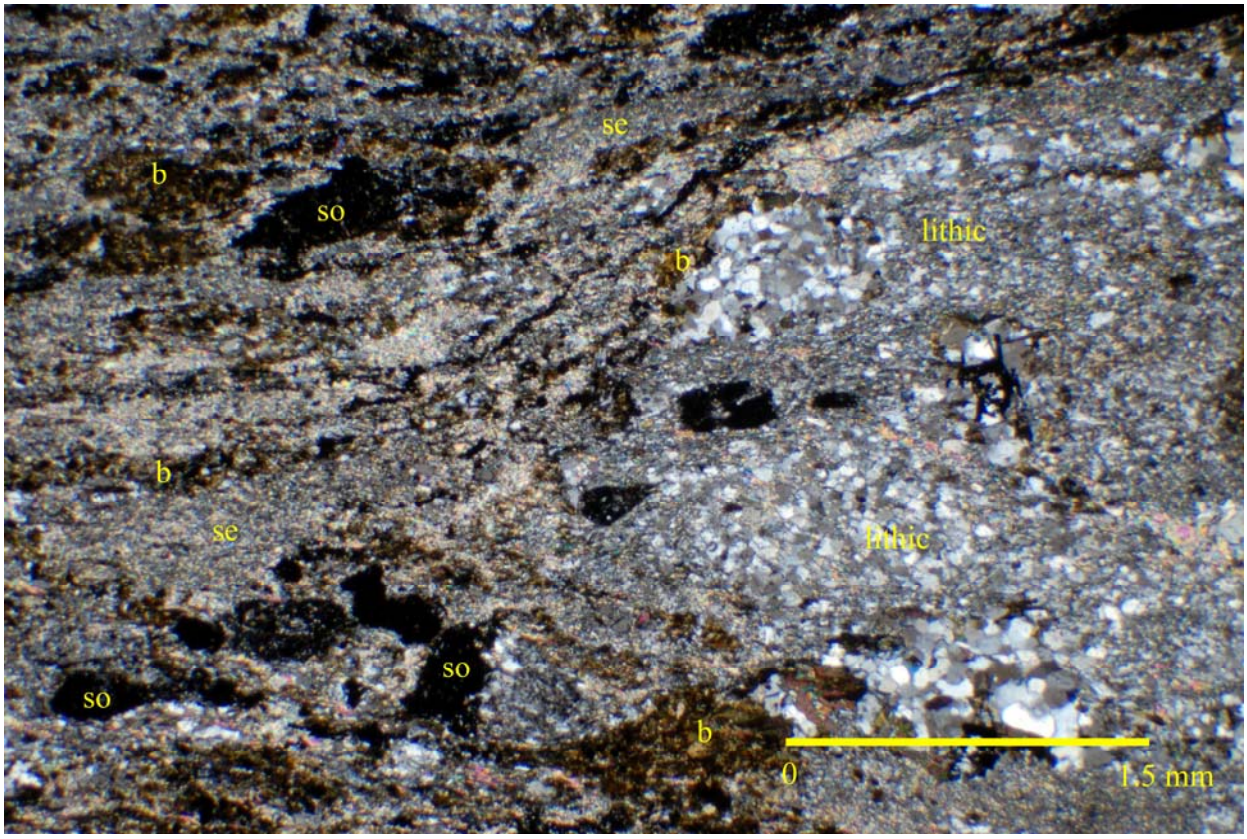
Sericite is one of the principle components of the mm to cm scale clasts noted throughout this section. Very fine grained sericites define the form of lozenge shaped mm to cm scale fragments. Prior to metamorphism, these fragments may have originally been clay rich lithic fragments.

Black opaques are distributed uniformly throughout the interval and are forming without a distinctive vein association. The strength of the magnetic susceptibility measurements for this sample would strongly suggest that at least of these opaques are either magnetite or pyrrhotite.

Magnetic Susceptibility: 5.77 SI units.

Deformational Style:

The rock contains a single pronounced penetrative S1 fabric. Rotational fabrics are not identified. Both biotite and sericite are forming within this penetrative surface. Non aligned sericites – biotites are rare. Rotational fabrics and or quartz rich pressure shadows are poorly developed.



Sample 09-04 @ 257. A mm scale lithic fragment is identified in the right half of this photomicrograph. This lithic fragment pre-dates the formation of S1 fabrics with S1 fabrics being both deflected and traversing this fragment. S1 fabrics are well defined by the orientation of aligned biotite grains. Sulphide-oxide grains are uniformly distributed throughout the matrix with no vein association. Abbreviations so: sulphide/oxide, lithic: lithic fragment, se: sericite, b: biotite. Transmitted light, crossed polars, 25x.

Sample 09-44 @ 173.25 Standard Thin Section No Opaque Mineral Determinations.

Protolith: Strongly Foliated Sericitized Quartzitic Siltite

The sample has been cut from a strongly foliated, well compositionally laminated, fine grained quartzitic siltite. Compositional laminations are defined by sericite rich mm to sub mm scale lamella intercalated with mm scale quartz rich and lithic rich lamella.

Mineralogy:

Minerals	*Abundance*	*Grain Size*
Matrix		
Sericite:	40-43%	<.1 – 0.5 mm
Biotite-Phengite	5-7%	.1 - .25 mm
Quartz	40-42%	.25 – 1.0 mm
Iron Carbonates	0.25%	.2 mm
Grossular	0.5%	.1 - .3 mm
Sulphide-oxide opaques	4-5%	.25 – 1.25 mm
Amorphous iron oxides	1-2%	.1 - .5 mm
Fe-Chlorite	0.25%	<.1 - .25 mm
Clinozoisite-epidote	0.2%	.2 - .5 mm
Vein		
Quartz	2-3%	.25 – 0.75 mm
Grossular	.5%	0.1 – 0.3 mm
Orthoclase	0.25%	0.1 – 0.25 mm
Clinozoisite-epidote	.25-.5%	.2 - .5 mm

Two micas are likely present in this sample. Very fine grained sericites, form mm scale compositional lamella. These lamella are locally flanked by a coarser grained mica and one with a moderate brown green color and significantly pleochroic under plane polarized light. The mineral is most likely to either be a low Fe biotite or a phengitic mica. The small size of these grains does not permit more accurate petrographic identification.

The small veinlet in this sample is a foliation discordant, mm scale veinlet, which is locally flanked by a weak orthoclase-sericite halo. Highest sulphide concentrations are associated with fine grained gritty quartzitic lamella. Sericitic lamella have lower net sulphide concentrations.

Anomalous blue interference colors on rare chlorite grains suggest that this is an Fe not Mg chlorite. Chlorite is only noted as a rare infill mineral noted adjacent to sulphide/oxide aggregates.

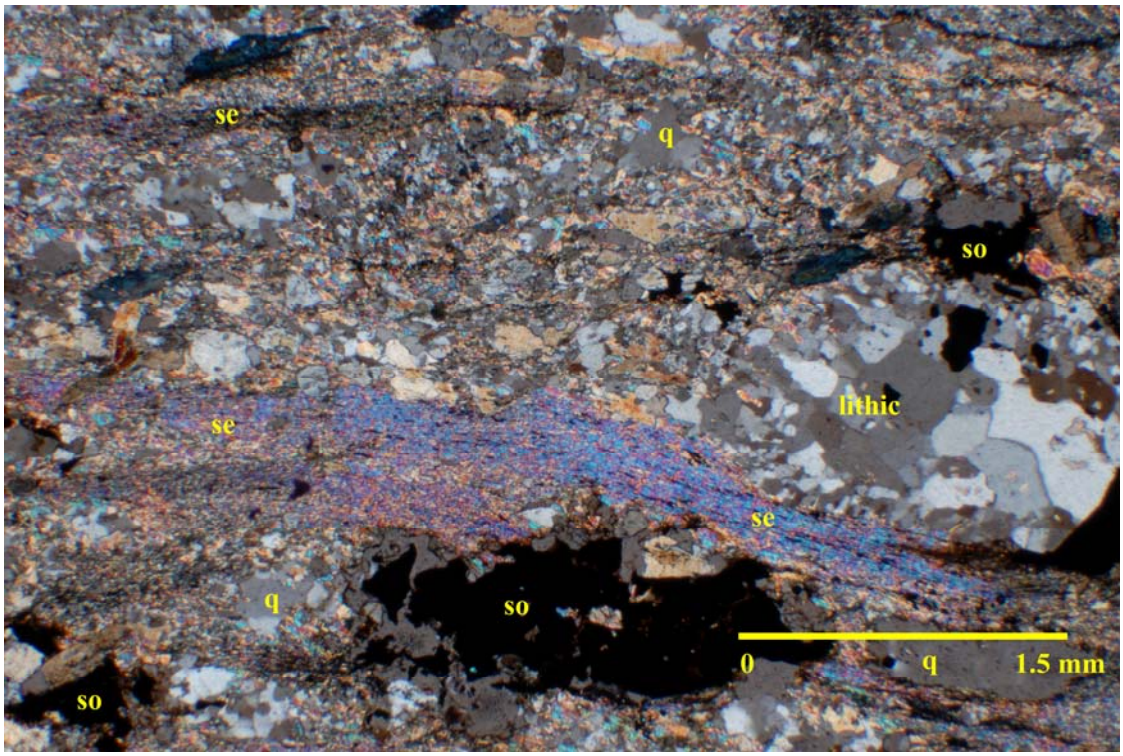
Small poorly formed grossular garnet grains occur throughout the matrix of the sample and form part of the regionally stable metamorphic assemblage. Clinozoisite-epidote grains are noted within the rock matrix but are most common flanking the small extensional veinlet noted within this sample.

Sulphide-oxide phases are preferentially localized to slightly coarser grained, gritty, quartz rich lamella. Strongly sericitic lamella have lower sulphide oxide contents.

Magnetic Susceptibility: 1.31 SI units.

Fluid Inclusion Morphology: 10-20 micron liquid dominate, low salinity inclusions. Solid phases within primary inclusions not identified.

Deformational Style: The sample displays a strong penetrative S1 fabric but weak evidence for rotational fabrics. Shear bands are not recognized. Primary textural preservation is poor with only rare lithic fabrics and quartz grains recognizable as primary fabrics. All quartz grains have polysutured internally recystallized surfaces.



Sample 09-44 @ 173.25: The plate illustrates several key parameters of this rock unit including: 1. The presence of early poly-sutured quartz rich lithic clasts. Clasts have poorly developed pressure solution shadows. 2. An abundance of well formed fine grained sericitic lamella. 3. Foliation parallel weakly elongate sulphide-oxide grains forming without an obvious vein association and without associated alteration halos. Small grossular garnets are occasionally noted but are not identified within this plate. Abbreviations, so: sulphide-oxide, lithic: lithic fragments, se: sericite, q: quartz. Transmitted light crossed polars, 25x.

Sample 09-54 @ 193.06 Standard Petrographic Section No Opaque Mineral Determination.

Protolith: Carbonatized - Sericitized Quartz-Feldspar Porphyritic Intrusion (Vesicular Flow?)

Primary textural preservation is limited within this sample. The best evidence for the rock protolith is noted under plane polarized light. Under plane polarized light numerous angular sub-mm quartz-feldspar pseudomorphic aggregates are visible within the rock matrix. The same unit also contains quartz filled vesicles which would be permissive in a fine dyke rock but uncommon in larger intrusions. The same textural relationships could be permissive in flow sequences.

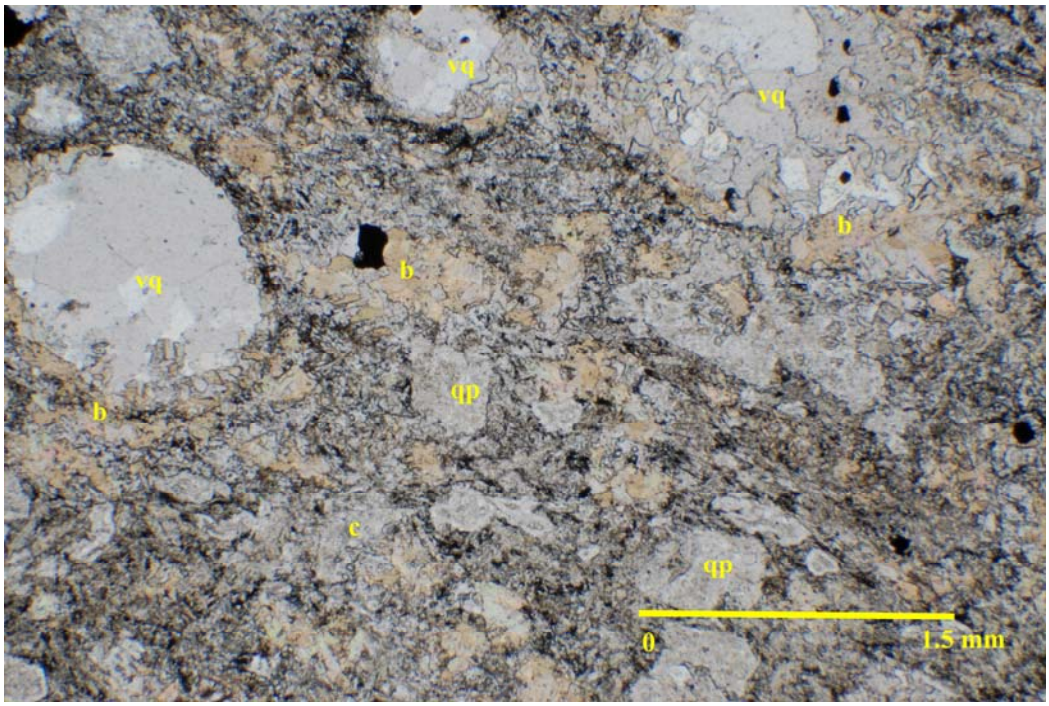
Mineralogy:

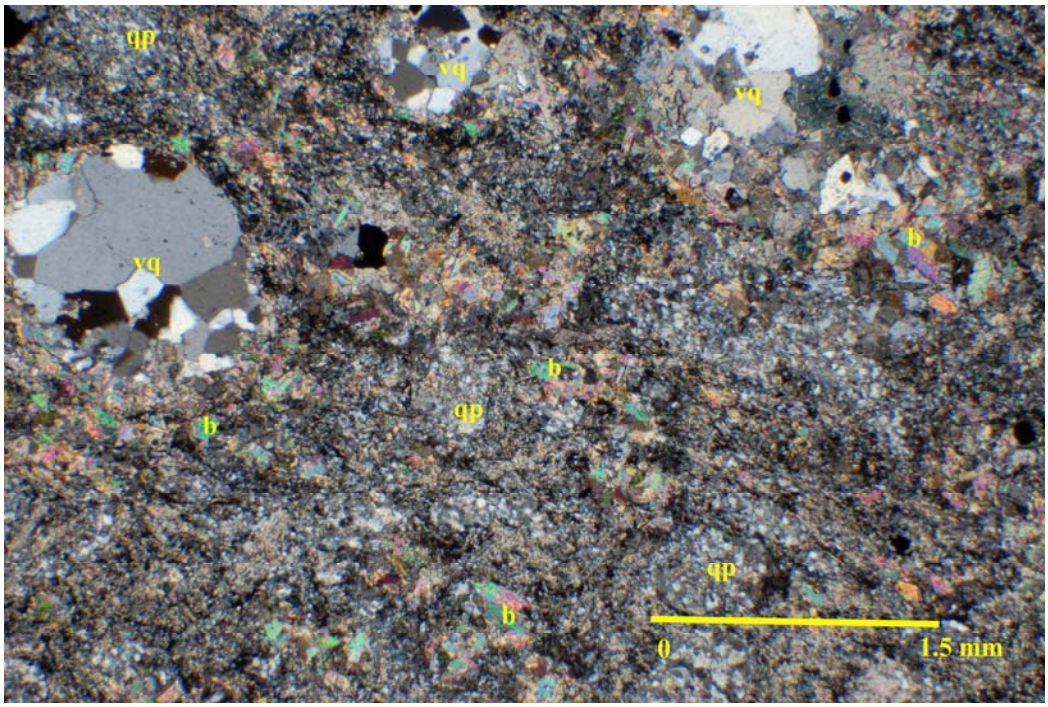
Mineral	*Abundance*	*Grain Size*
Matrix:		
Biotite (phlogopite)	30-35%	0.1 – 0.5 mm.
Calcite:	10-11%	0.25 mm
Potassium Feldspar	12-14%	0.1 - 0.3 mm
Quartz	20-22%	0.1 – 0.75 mm
Chlorite	0.5-0.75%	0.2 mm
Rutile	trace	< 0.1 mm
Black opaques	10-12%	< .1 – 0.7 mm
Vein		
Calcite	10%	.25 - .5 mm
Quartz	3-4%	.1-.25 mm
Chlorite	2%	.1 - .25mm
Biotite	.5%	.1 - .25

Black opaques within this sample are likely to be of two principle types including red-brown iron oxides within the rock matrix and disseminated sulphide grains within the matrix and within, and flanking, small calcite-quartz veins.

The main sheet silicate phase in this sample is likely phlogopite, an end member biotite. This distinction is based on the pale pinkish green to light brown pleochroism of this mineral which is generally much lighter than that noted in biotite. Fine grained potassium feldspars are noted throughout the matrix, most of the petrographic data would suggest that these are secondary in origin. Biotite are noted within the sample where they appear to be forming a halo to mm scale calcite-quartz veins. Biotite within these halos has been significantly corroded and retrograded to chlorite.

No primary or secondary feldspars are identified within this rock unit. Primary feldspar phenocrysts have all been replaced by a sericite – quartz assemblage.





Sample 09-54 @ 193.06. Textural features most indicative of a preserved felsic intrusion are best noted on the upper plate (plane polarized light) and less obvious on the lower plate (cross polarized light). Within these plates, square to rectangular mineral outlines are likely psuedomorphs or replacements of an earlier phenocryst phase. The pale brownish mineral under plane polarized light are likely phlogopitic micas. The mm scale oval quartz filled vesicles are lined by micas and may occasionally be cored by calcite as well as quartz. Abbreviations qp:

quartz plagioclase, vq: vesicular quartz, c: calcite, b: biotite. Plane and crossed polarized light, 25x.
Mag Susceptibility: 0.55 SI Units.

Vein Paragenesis:

Two distinctive vein sets are noted in this sample. Early quartz veinlets with biotite selvedges are cut by later calcite-quartz veins with weak chlorite-biotite haloes. Opaque, sulphide-oxide mineral phases may be associated with either vein form.

Fluid Inclusions: 20 – 30 micron coherent inclusions are noted within amygdaloidal quartz infill. The vast majority of this inclusions are liquid dominant with less than 5% by volume vapour phases. Crystalline (salts) phases are not identified.

Deformational Style: The sample has a weak to absent penetrative fabric and no pressure solution features or strain shadows are identified within it. All of the twin lamella in calcite grains are low temperature Type I twin planes.

Sample 09-54 @ 180.9. Standard Thin Section No Opaque Mineral Determinations.

Protolith: Microlithic Amygdaloidal Felsic Intrusion (Flow?)

This rock appears to be similar to sample 09-54 @ 193.06. The principle difference in the current sample is the much lower percentage of coarse grained phlogopite, higher percentage of fine grained sericite and an increased abundance of well formed elongate vesicles. The absence of mafic mineral phases suggests that the protolith of the unit is likely a fine grained felsic intrusion or potentially a vesicular flow. The absence of a well developed penetrative fabric in this rock would suggest that its emplacement significantly post-dates metamorphism and deformation of the enclosing fine grained sediments. This would support the interpretation of the unit as a vesicular dyke or sill like body and not an older flow sequence.

Mineralogy:

Minerals	*Abundance*	*Grain Size*
Sericite	55-60%	< 0.1 mm
Quartz	20-25%	.2 – 2.0 mm
Biotite (phlogopite)	4-5%	0.25 mm
Opaques	7-8%	0.1 – 1.0 mm
Ankerite	6-8%	.2 - .5 mm
Potassium Feldspar	0.5 – 1.0%	.1 - .4 mm

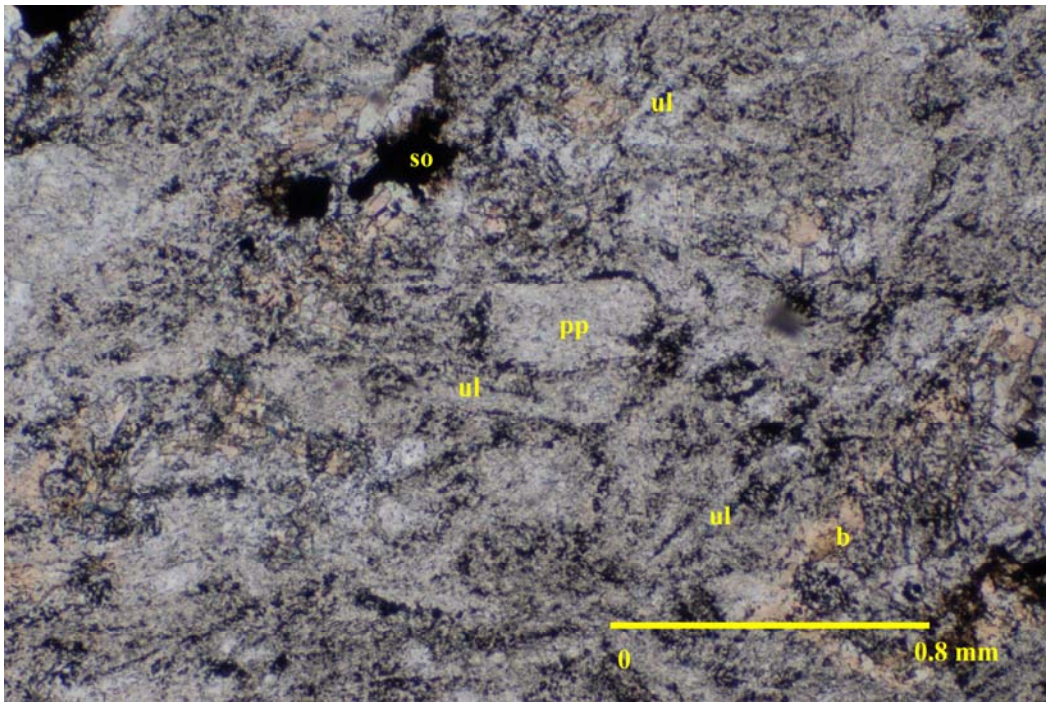
Much of the rock matrix is composed of very fine grained microlithic sericite. Phlogopite is generally noted rimming quartz filled vesicles and in one rare instance flanking a poorly formed quartz-calcite-biotite vein. Iron carbonates are most typically noted as small discrete aggregates also bordered by phlogopite. Primary feldspars are not preserved but their outlines may be interpreted from rare psuedomorphic casts.

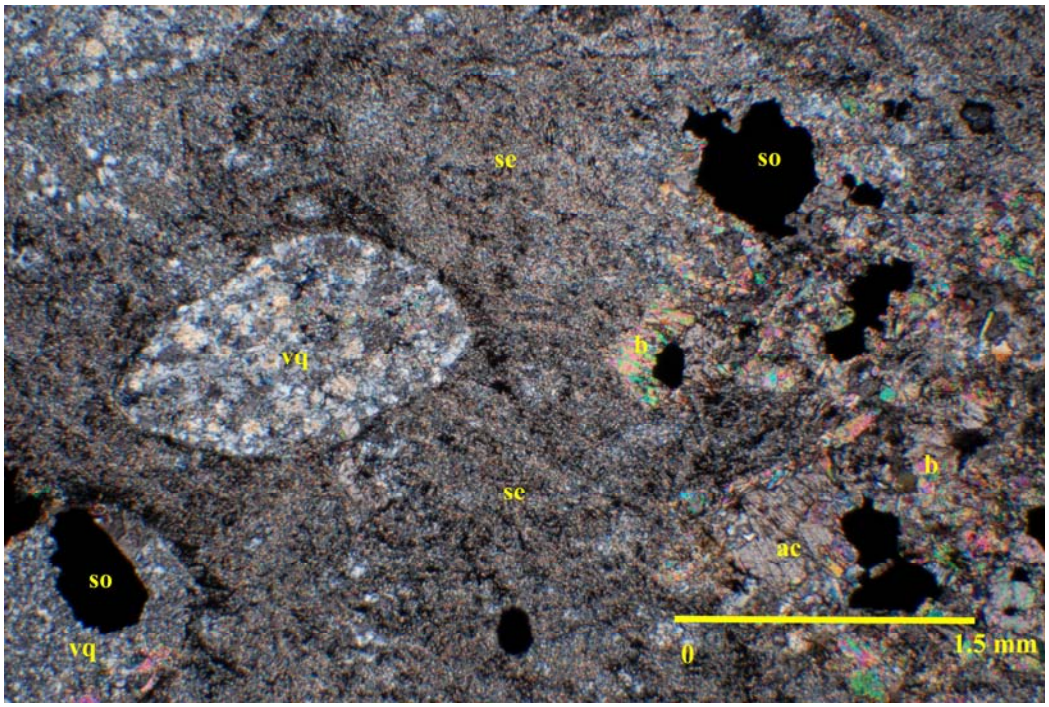
Opaque minerals have two predominate distributions and are noted as either coarser grained, up to 1.0 mm aggregates, often flanking vesicles or as much finer grained, 0.1 mm, matrix aggregates. Fine grained matrix opaques often form the boundaries of silicate mineral pseudomorphs.

Magnetic Susceptibility: 0.99 SI units.

Deformational Style: Although the rock lacks a strong penetrative fabric, the orientation and elongation of vesicles is highly anisotropic. These vesicles have an aspect ratio of approximately 1x4 width to length, with the long axis best displayed within the plane of the thin section.

No strain shadows are noted flanking euhedral black opaques. Both biotite and sericite are present as non-aligned aggregates.





Sample 09-54 @ 180.9. In the upper plate (plane polarized light, 50x) black opaque mineral phases outline early matrix microliths and coarser probable plagioclase pseudomorphs. In the lower plate (crossed polarized light, 25x) the well formed coarse quartz filled vesicles are noted embayed within a matrix of very fine grained sericite. Coarse opaque aggregates are associated with a coarser grained biotite or phlogopite mineral aggregates. Abbreviations vq: vesicular quartz, se: sericite, b: biotite, so: sulphide or oxide, ul: microliths, pp: plagioclase psuedomorph.

Sample 09 – 32 @ 96.35: Standard Petrographic Section, No Opaque Mineral Determinations.

Protolith: Chloritized Calcitic Wackes

This dull green grey, poorly laminated rock unit is, in this sample poorly bedded, and contains wispy, highly elongate aggregates of calcite, chlorite and lesser quartz. Carbonates appear to have formed very early suggesting that the protolith is a limy sediment; either a calcareous siltite or calcareous wacke. The rock column has received a significant amount of mafic input as evidence by the abundance of matrix chlorite. Input from a distal mafic tuffaceous source is probable.

Mineralogy:

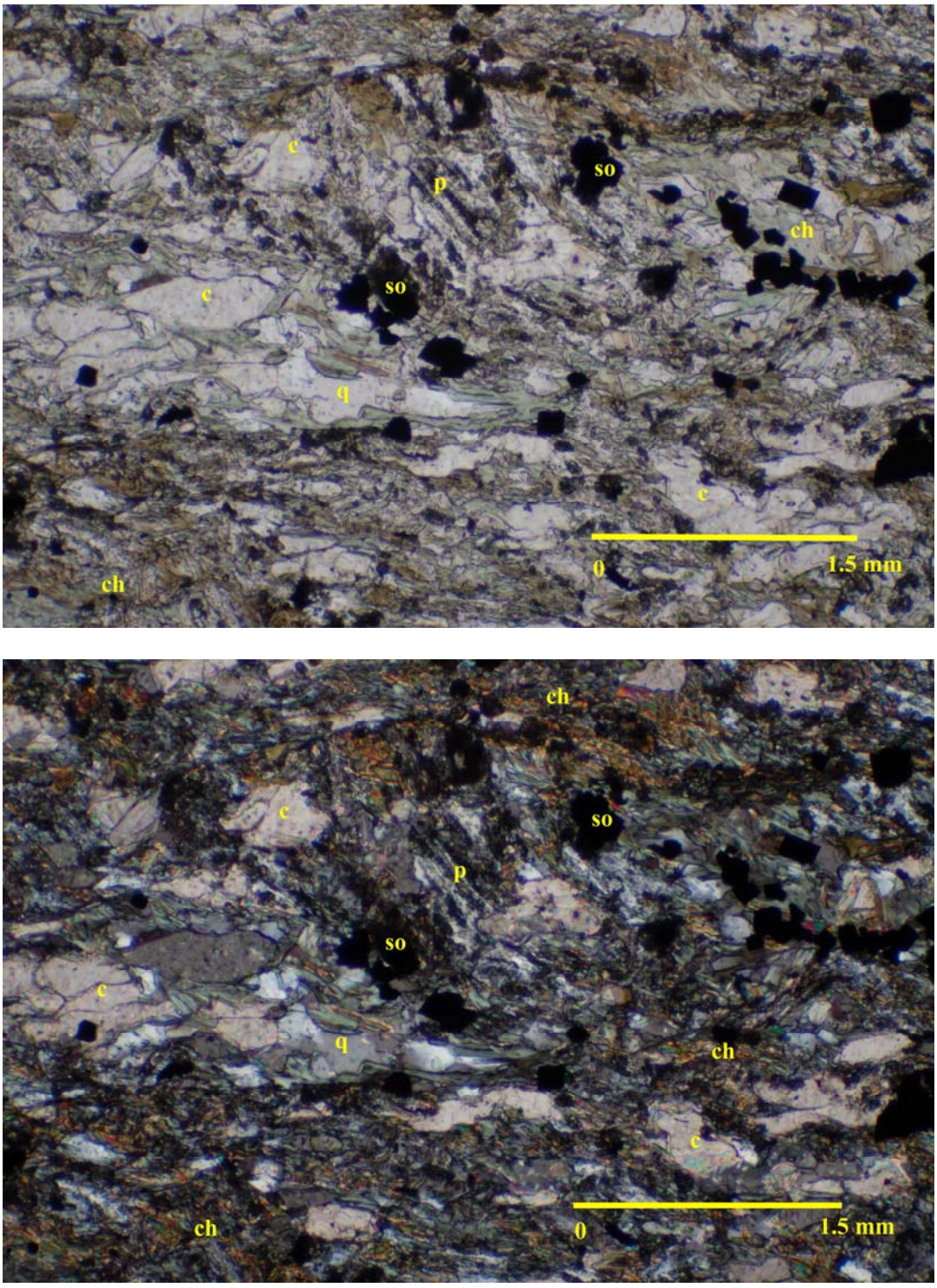
Mineral	*Abundance*	*Grain Size*
Matrix		
Calcite:	40-45%	0.2 – 0. 5 mm
Chlorite:	25-30%	0.15 – 0.5 mm
Biotite:	2-2.5%	0.1 – 0.3 mm
Quartz:	5-8%	0.1 – 0.25 mm
Plagioclase	trace	0.25 mm.
Opaques	6-8%	0.1 - .2 mm
Vein		
Calcite	3-4%	.3 – 75 mm
Chlorite	1%	.15 - .5 mm
Quartz	0.25%	<.1 - .2 mm

Opaque minerals in this sample pre-date the formation of minor calcite-chlorite veins. These veins contain virtually no opaque mineral phases and have only a relatively weak chlorite halo.

Chlorite and calcite are uniformly distributed throughout the matrix and are most often noted as cuspate elongate mm to sub mm aggregates.

Magnetic Susceptibility: 12.8 SI units. The strength of the magnetic susceptibility reading suggests that all opaques are likely to magnetite.

Deformational Characteristics: The rock unit has a profound penetrative fabric formed by the alignment of calcite and chlorite. A weak crenulation cleavage is noted forming at approximately 45º to the S1 fabrics. Calcite veins appear to be oblique extension veins and are forming at a high to S1 fabrics. Twin planes within matrix and vein calcite are dominantly Type II twins.



Sample 09 – 32 @ 96.35. Identical fields of view are shown in both the upper plate (plane polarized light) and the lower plate in (crossed polarized light). The cuspate form of matrix calcite is noted across the section. The photomicraphs display a single partially replaced plagioclase grain located in the centre of the field of view. All opaque mineral phases are uniformly disseminated throughout the rock matrix. Abbreviations are: ch: chlorite, q: quartz, c: calcite, p: plagioclase, so: sulphide-oxide. Transmitted light, plane and crossed polars, 25x.

Sample 09-52 @ 291.4 Standard Petrographic Section, No Opaque Mineral Determinations.

Protolith: Dolomitic Limestone

The rock sample has been selected from a massive dolomitic limestone. Although the sample may be collected from an iron carbonate replacement body, very limited data would support this interpretation. Within the sample very minor primary calcite grains persist. Diffuse grain size variation may suggest weak development of primary compositional layers.

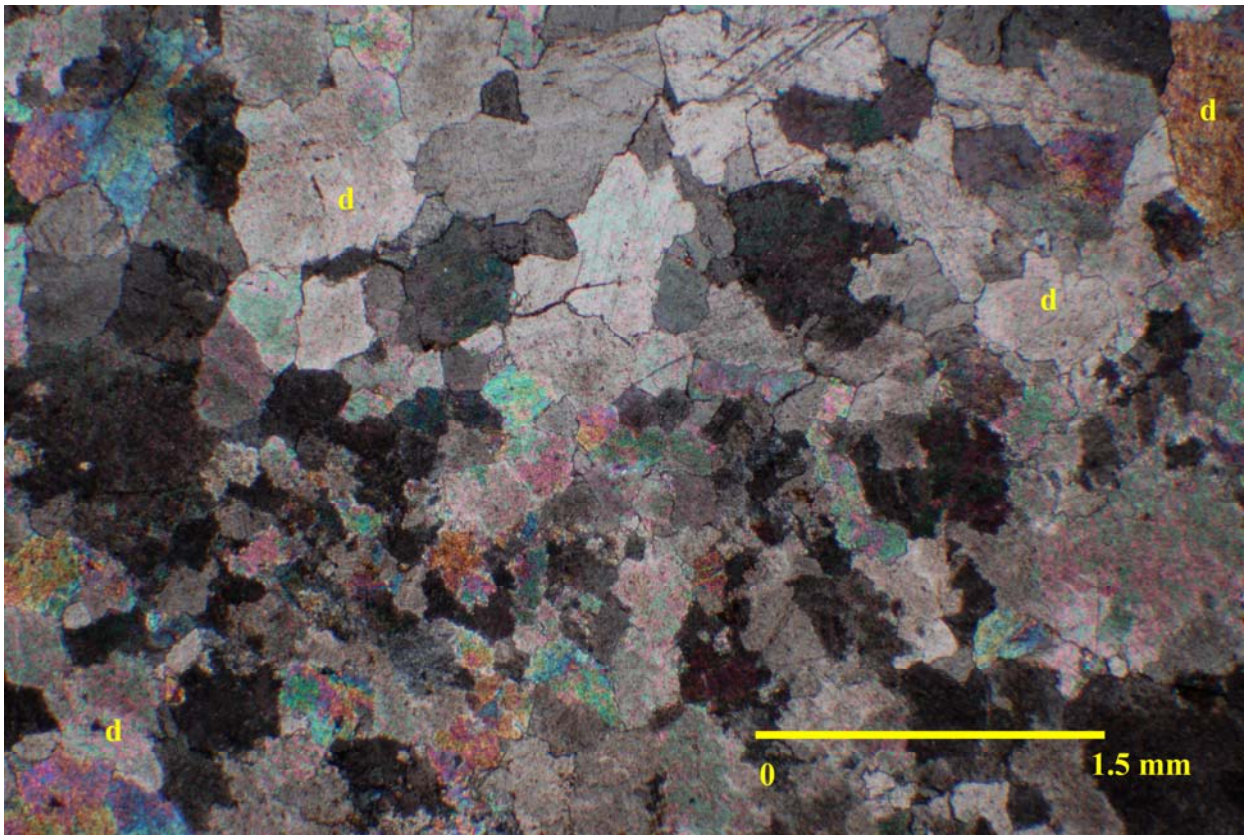
Mineralogy:

Minerals	*Abundance*	*Grain Size*
Dolomite	97-98%	.25 – 1.0 mm
Calcite	1.5%	.25 – 1.25 mm
Limonite	0.25%	0.1 – 0.25 mm

Limonitic fractures or hydrous iron oxides locally outline and bound dolomite grains suggesting that the dominant dolomite phase is a ferro-dolomite.

Magnetic Susceptibilty: 0.00 SI units.

Deformational Style: Dolomite grains are generally non-aligned and may be cut by early stylolitic cleavages. Limonitic fractures are forming sheeted sub-mm joint sets and truncate early stylolitic cleavages. Twin planes are dominantly Type I although a few Type II planes are noted.



Sample 09-52 @ 291.4. The complete field in this photomicrograph is composed of clouded slightly annealed ferro-dolomite grains. Abbreviations, d: dolomite; crossed polarized light, 25x.

Sample 09-37 @ 94.5. Standard Petrographic Section, No Opaque Mineral Determination.

Protolith: Coarse Grained Dolomitic Limestone.

The sample has been taken from a coarse grained, weakly siliceous, dolomitic limestone. The sample contains coarse mm to cm scale dolomite grains locally separated and outlined by yellow buff limonitic oxides, commuted dolomite grains and by minor sericite.

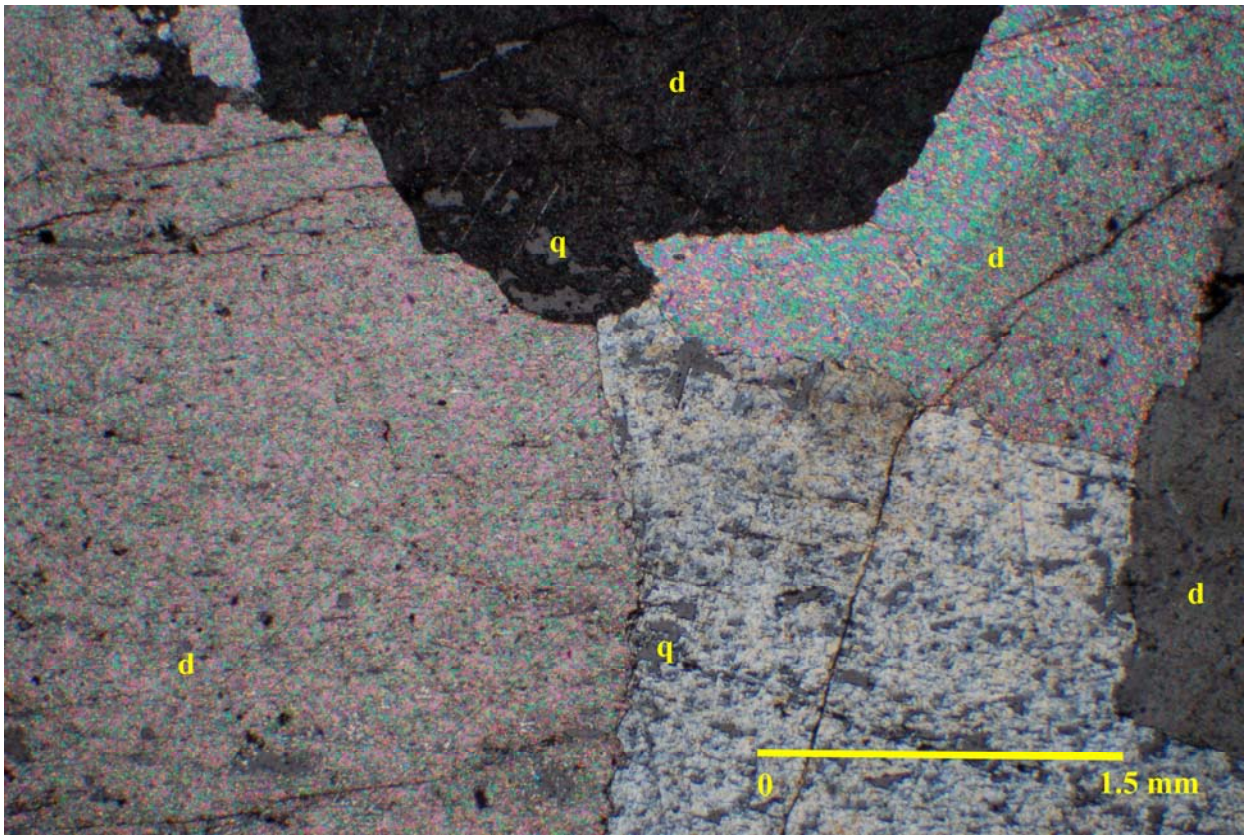
Mineralogy

Mineral	*Abundance*	*Grain Size*
Dolomite	95 - 96%	.2 – 10.0 mm
Quartz	2-3%	0.1 – 0.25 mm
Limonitic oxides	1.0 – 1.5%	.1 – 0.5 mm
Euhedral opaques	0.5%	2.0 – 4.0 mm
Sericite	.25%	< 0.1 mm

Very coarse grained interlocked dolomite crystals dominant within the matrix. Quartz is distributed internal to dolomite grains as small cleavage parallel aggregates. The percentage volume of silica lies far below that required to classify the unit as a siliceous dolomite. Euhedral opaque grains are distributed in the interstices to coarse dolomite grains.

Magnetic Susceptibility: 0.10 SI units.

Deformational Style: The sample contains a weakly developed stylolitic cleavage which is defined by the seriate textured boundaries of dolomite grains, enhanced limonitic oxides and minor sericite grains. The very coarse interlocking nature of the dolomite grains may suggest the development of partial collapse breccias.



Sample 09-37 @ 94.5. Interlocking cm scale dolomite grains dominant the field of view. The grains contain small locally elongate quartz inclusions. Quartz inclusions form at variable concentrations within grains. Abbreviations, q: quartz, d: dolomite. Crossed polars, 25x.

Sample 09-26 @ 126.49. Standard Petrographic Section, No Opaque Mineral Determinations.

Protolith: Recrystallized Dolomitic Limestone.

The sample has been collected from a light to medium grey dolomitic limestone. The rock contains two macroscale crystal phases including a coarse grained euhedral to locally dog-tooth dolomitic grains and a much more anhedral sucrosic mineral phase. No vein margins are identified between the two crystal forms. The two mineral forms may be formed by early replacements of small voids and dissolution features within the limestone.

Mineralogy:

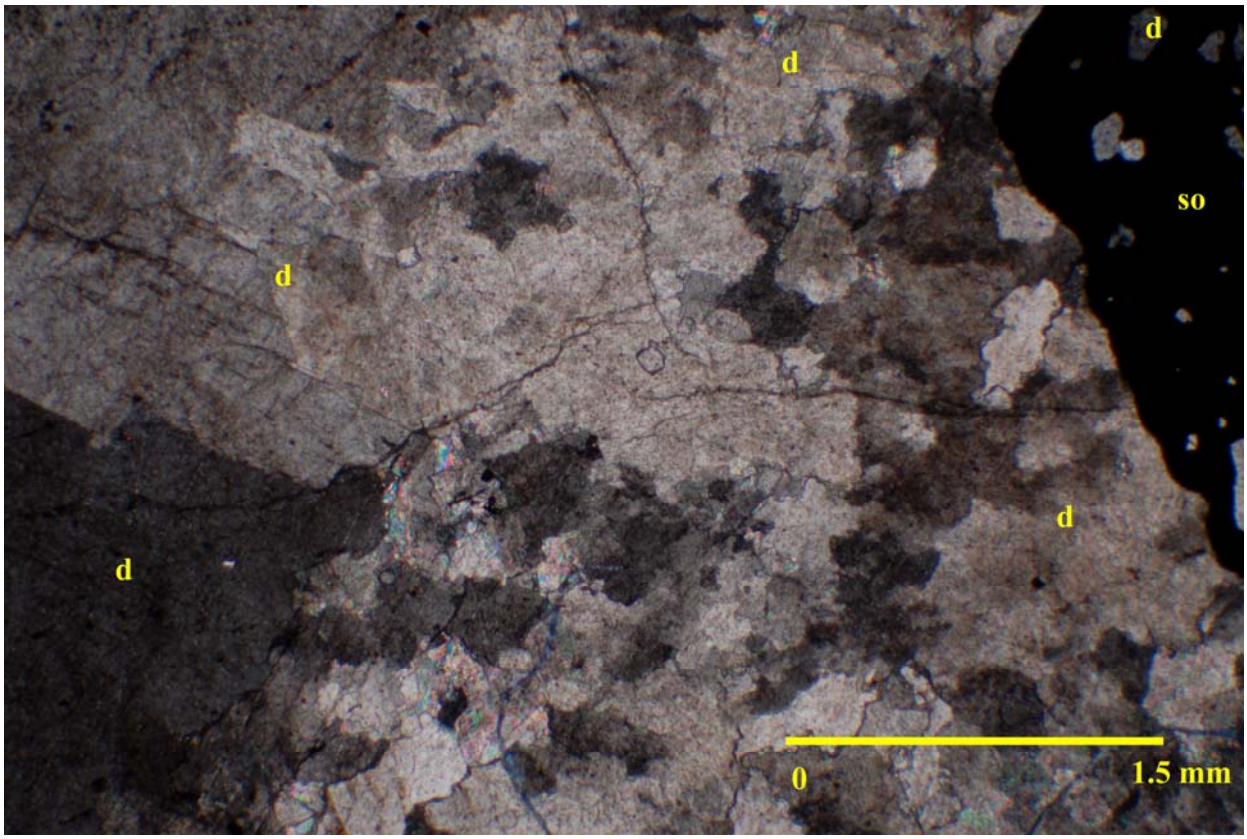
Mineral	*Abundance*	*Grain Size*
Dolomite	96-97%	0.25 – 7.0 mm
Black Opaques	2-3%	0.2 – 4.0 mm
Brown Carbonaceous Semi-opaques	0.5 – 1.0%	<0.1 mm

Black opaque (sulphide phases) may be predominantly associated with anhedral sucrosic dolomite domains but these minerals are also noted in bladed euhedral dolomite domains. Black opaques contain numerous small 0.1 – 0.25 mm dolomitic inclusions.

Open space cavities are noted between coarse phenocyrst phases. Opaque aggregates are forming without a distinctive microveinlet association.

Magnetic Susceptibility: 0.0 SI units.

Deformational Style: Stylolitic sutures are common within this sample and may be more pronounced in the finer grained anhedral phases. Remnant dolomite twin ghosts are locally identified within the finer grained anhedral mineral phases proximal to the crystallization front between the two mineral phases. This may suggest that anhedral finer grained dolomite phases are replacing coarser grained dolomite mineral phases. Although twin planes are best recognized in coarse grained dolomitic crystal phases Type I and II twin planes are identified in both anhedral and euhedral crystal grains. No pressure shadows are identified external to angular opaque grain boundaries.



Sample 09-26 @ 126.49. The division between coarse euhedral dolomitic grains, central and upper left field of view, is clearly noted in this sample. Anhedral, dolomitic grains are located in the central and lower right field of view. The black opaque sulphide grain in the upper right field of view contain numerous dolomitic inclusions. Abbreviations d: dolomite, so: sulphide-oxide. Transmitted crossed polarized light, 25 x.

Sample 09-60 @ 78.0. Standard Petrographic Thin section. No opaque mineral determinations.

Protolith: Sulphidized Dolomitic Limestone

The sample has been taken from a coarse grained dolomitic limestone. The lower third of the sample has been replaced by finer grained anhedral dolomite grains and moderately sulphidized with both pyrite and arsenopyrite.

Mineralogy:

Mineral	*Abundance*	*Grain Size*
Dolomite	95.5-96.5%	0.25 – 10 mm
Black opaques	2.0-2.5%	0.2 – 10 mm
Brown semi-opaques	0.5-0.75%	0.1 – 0.25 mm
Quartz	1.0 – 1.25%	<0.1 – 0.5 mm

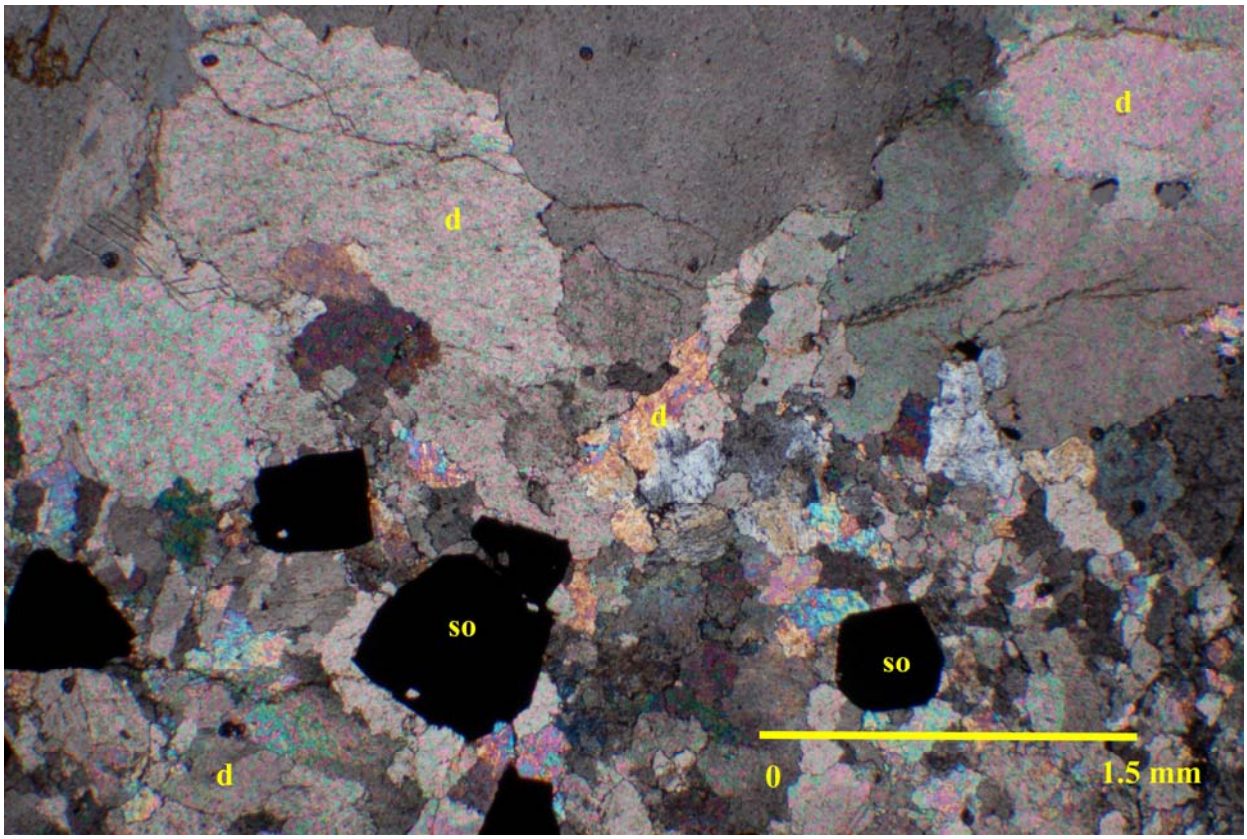
The majority of this rock unit is formed by euhedral, coarse grained dolomite aggregates (75%-80%). Finer grained re-crystallized dolomite aggregates form approximately 15% of the unit. Finer grained dolomite phases appear darker grey in hand-specimen due to the increase in fine grained carbonaceous stylolitic cleavages and pressure solution selvedges. Brown semi-opaques are limonitic oxides forming as very minor microveinlets and locally rimming and outlining dolomite grain boundaries.

Quartz is noted as small cleavage parallel inclusions and as small interstitial aggregates. Vein quartz is not identified.

Black sulphides and opaques are preferentially associated with finer grained anhedral phases and lack any vein association. Abundant very small < 0.2 mm dolomite inclusions are commonly noted within the black opaque grains.

Magnetic Susceptibility: 0.15 SI units.

Deformational Style: The both anhedral and euhedral mineral grains display an excellent pressure solution cleavage. Within the coarse dolomite phase, this stylolitic fabric may be forming roughly sub-parallel to early S1 fabrics. The development of finer grained replacement dolomite grains is forming orthogonal to this stylolitic fabric and potentially post-dates formation of this fabric.



Sample 09-60 @ 78.0. The reaction front between anhedral, small dolomite grains and much coarser euhedral dolomite crystals in clearly demonstrated on this plate. Black opaque (sulphide-oxide) phases are preferentially developed within the finer grained re-crystallized dolomite grains. Abbreviations, so- sulphide-oxide, d: dolomite. Transmitted light, crossed polars, 25 x.

Sample 09-45 @ 262.5. Standard Petrographic Section. No Opaque Mineral Determinations.

Protolith: Sericitized Ankeritized, Fine Grained Lean Lithic Wackes

The sample is well characterized by:

a. Well defined weakly anastomosing mm to sub-mm scale, tan sericitized lamella.
b. Moderate development of iron carbonate matrix replacements or primary iron carbonate compositional layers.
c. Rare, mm to cm scale lithic fragments.
d. An abundance of dark brown to black foliation parallel carbonaceous opaques.

The rock unit will likely lie between a compositional boundary defined by fine grained siltites and lean lithic wackes.

Mineralogy:

Mineral	*Abundance*	*Grain Size*
Sericite	45-50%	0.1 – 0.3 mm
Iron carbonates	30-35%	0.1 – 0.4 mm
Quartz	3-5%	0.1 – 0.25m
Carbonaceous opaques	15-20%	0.2 – 0.25 mm
Sulphide/oxide opaques	3-5%	0.1 – 0.8 mm
Apatite	trace	< 0.1 mm

The predominant fabric within the rock is formed by the alignment of dark brown carbonaceous opaque sub – mm lamella. These lamella are locally deflected around mm to occasionally cm scale lithic fragments. The matrices of most of the lithic fragments have been strongly replaced by intergrowths of sericite, iron carbonate and quartz.

Sericite is forming moderately poorly aligned ton non-aligned aggregates and are likely to have formed post peak strain. Matrix quartz is noted only as very small isolated grains. Locally sericite may also form narrow mm scale reactions rims to oval calcite aggregates.

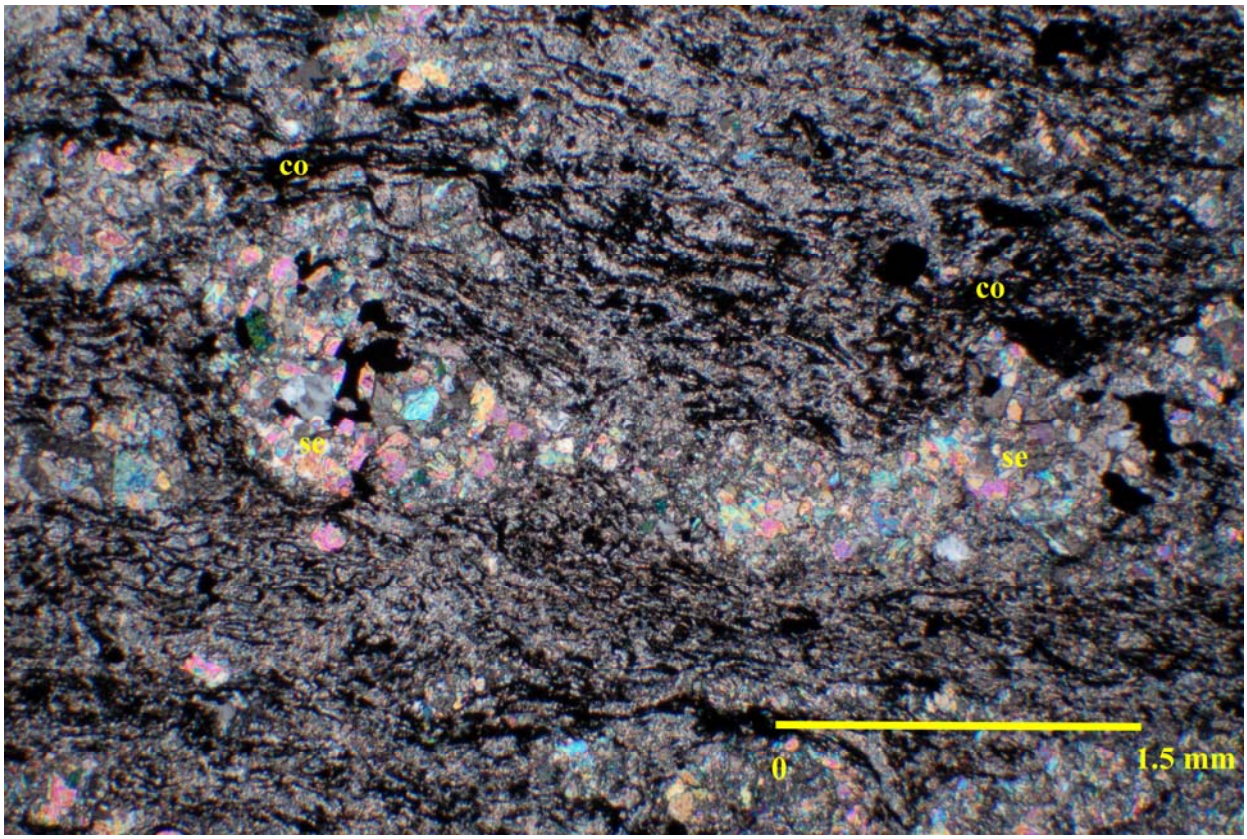
The volume of sericite strongly suggests that this unit had a very clay rich primary protolith and may form poorly defined compositional lamella.

The unit contains no significant discordant vein features. Black euhedral sulphide-oxide phases are uniformly distributed throughout the matrix.

Magnetic Susceptibility: 0.04 SI units.

Deformational Style: The sample contains a strong S1 flattening fabric but no, or limited, evidence of later penetrative fabrics. No rotational strains are identified with this fabric. Fabric deflections around lithic fragments suggest that small lithic fragments pre-date S1 fabric development.

No pressure shadows are identified flanking euhedral sulphide-oxide phases. Twin planes are infrequently recognized in the fine grained carbonates which are scattered throughout the matrix.



Sample 09-45 @ 262.5. Diffuse fine grained compositional layers of sericite are noted throughout the matrix. The colored pink to blue grains are non-aligned sericites which post-date formation of the primary penetrative fabric which is principally defined by the orientation dark black carbonaceous opaques. Abbreviations co: carbonaceous opaques, se: sericite, transmitted light, crossed polars, 25 x.

Sample 09-22 @ 175.5. Standard Petrographic Section. No Opaque Mineral Determinations.

Protolith. Carbonaceous Dolomitized Limestone

The rock protolith is dominated by orange buff dolomitic carbonates which have been strongly overprinted by earlier dolomitization and be later stage fine grained iron carbonate veins.

Mineralogy:

Mineralogy	*Abundance*	*Grain Size*
Dolomite (early)	15-20%	0.2 – 0.8 mm
Dolomite (late replacement)	50-55%	0.1 – 0.25 mm
Iron carbonate (vein)	5-8%	0.2 – 0.4 mm
Quartz	3-4%	0.1 – 0.3 mm
Biotite	1.5-2.0%	0.1 – 0.25 mm
Brown carbonaceous opaques	7.0 – 8.0%	0.1 – 0.4 mm
Black sulphide-oxide opaques	2.0 – 2.5%	0.2 – 0.5 mm

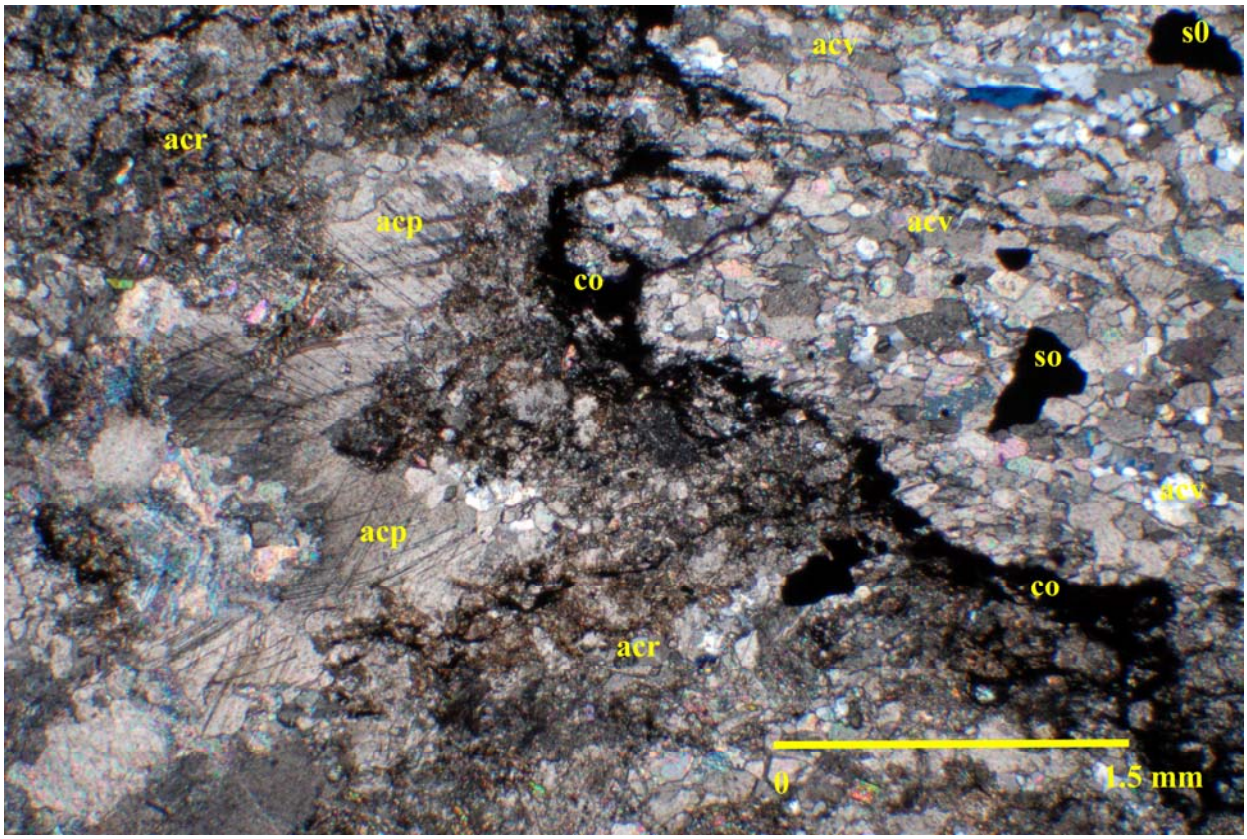
Early dolomite – iron carbonate crystals tend to be significantly larger and contain a lower percentage of opaque mineral contaminants. Their boundaries with small anhedral replacement grains are most often developed across irregular stylolitic like cleavages. Iron carbonates internal to early veins are fine grained and strongly aligned to the early S1 fabric. All carbonate minerals within this sample pre-date S1 cleavage formation.

Although quartz is disseminated throughout the sample, it is preferentially associated with early iron carbonate veins. These veins are also associated with higher percentages of black sulphide – oxide opaques.

Brown carbonaceous semi-opaques occur throughout the section and form the principle S1 surface. Brown carbonaceous opaques are also preferentially developed along the margins to early veins. In both environments these opaque minerals likely represent the non-soluble detritus which is a residuum from pressure solution processes.

Magnetic Susceptibility: 0.09 SI units.

Deformational Style: All components of this thin section have a moderately well preserved flattening fabric. This fabric is present preserved in the finer grained grains internal to iron-carbonate +/- quartz veins. Twin planes within early dolomite grains are Type I – Type II cleavages. Pressure solution shadows flanking angular black opaque sulphide/oxide grains are not developed.



Sample 09-22 @ 175.5. Replacement mineral textures are well illustrated in this strongly altered ankeritic limestone. Coarse grained early dolomitic grains display well developed cleavage sets (acp). Finer grained anhedral muddy secondary dolomite grains typically do not display this cleavage (acr). Dark brown to black carbonaceous oqaques form a distinctive halo to an early iron carbonate veinlet. Abbreviations: acp, primary iron carbonates, acr, iron carbonates replaced, acv, iron carbonates vein, co: carbonaceous opaques, so: sulphide-oxide opaques. Transmitted light crossed polars, 25x.

Sample 09-30 @ 199.5. Standard Petrographic Section. No Opaque Mineral Determinations.

Protolith. Biotite Porphyroblastic Ankeritic Siltite.

This rock unit is characterized by the presence of mm scale compositional layers of creamy buff sericite separated by mm scale brown biotite porphyroblastic compositional lamella. Three lamella types are identified including:

a. Well formed biotite porphyroblastic lamella.
b. Well formed carbonaceous opaques and very fine grained sericite-quartz lamella.
c. Well formed moderately coarse grained iron carbonate-biotite lamella.

Primary textural preservation within this unit is very poor. It is likely that the protolith of this unit was very delicately laminated and dominated by siltite size fractions.

Mineralogy:

Minerals	*Abundance*	*Grain Size*
Matrix		
Biotite	20-25%	0.2 – 0.8 mm
Dolomite	28-32%	0.1 – 1.0 mm
Sericite	14 – 17%	0.1 – 0.4 mm
Quartz	4-6%	<0.1 – 0.3 mm
Carbonaceous Opaques	8-10%	<0.1 – 0.5 mm
Black Opaques	0.5 – 1.0%	<0.1 – 0.3 mm
Vein		
Dolomite	1-2%	0.25 – 0.4 mm
Quartz	0.25-0.5%	0.1 – 0.3 mm
Black Opaques	< 0.25%	0.2 – 0.4 mm
Rutile	trace	< 0.1 mm

Biotite is present as a foliation forming, lamella parallel, porphyroblastic mineral aggregates and locally forming envelops or cored by euhedral calcite aggregates. Very fine grained sericite forms tan to cream colored mm scale lamella locally with minor carbonate and biotite aggregates. Dolomite grains are commonly noted as mm scale lozenge shaped aggregates flanked by dull brown carbonaceous opaques. Carbonaceous opaques form narrow laterally persistent foliation forming bands.

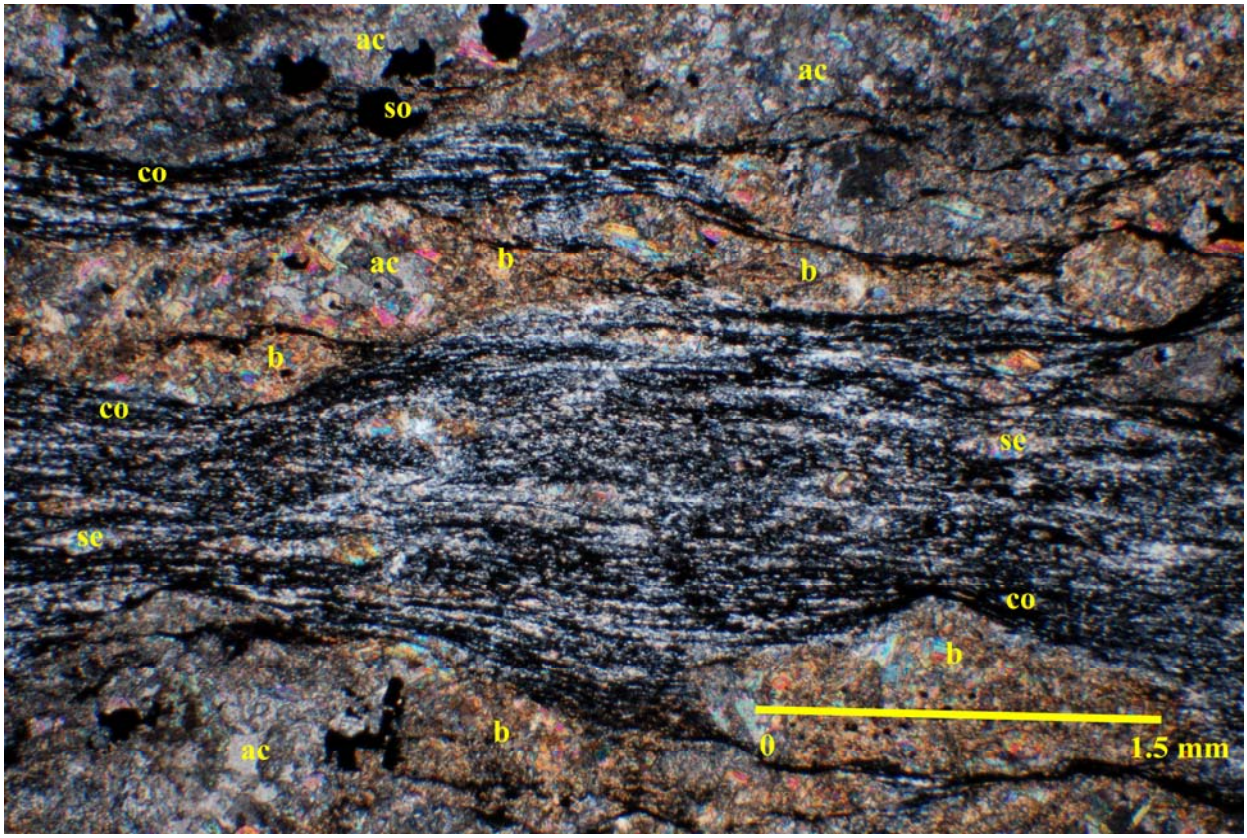
Most of the quartz in the section is associated with sub-mm foliation parallel shear parallel veinlets. Quartz dolomite veinlets are associated with elevated black opaque sulphide-oxide grains. These may also be found as random disseminations throughout the matrix.

Magnetic Susceptibility: 0.10 SI units.

Fluid Inclusion Characteristics:

Well formed small, generally less than 10 micron inclusions are noted within foliation parallel quartz – carbonate veins identified in this section. The inclusions are liquid dominant and only in one inclusion with a solid saline phase identified.

Deformational Style: The rock has a pronounced non-rotational flattening fabric, S1. No other penetrative fabrics are defined. Quartz pressure shadows are absent. Deflections in carbonaceous opaque foliations are related to grain boundary deflections and un-related to a later deformational process.



Sample 09-30 @ 199.5. The intense flattening fabric is noted throughout this section. Both biotite, sericite and carbonaceous opaques are aligned to this surface. Most mineral grains are either metamorphic or replacement in origin. Primary textural preservation is limited. Abbreviations: ac: iron carbonate, so: sulphide-oxide, b: biotite, co: carbonaceous opaques, se: sericite. Transmitted light, crossed polars, 25x.

Sample 09-26 @ 115.5: Standard Petrographic Thin Section, No Opaque Mineral Grain Determinations

Protolith: Biotite Porphyroblastic Carbonaceous Calcareous Siltite.

The rock unit is a well compositionally laminated strongly porphyroblastic clastic sediment. The unit contains abundant biotite porphyroblasts which are uniformly disseminated throughout the matrix. Thin, mm scale, yellow cream compositional bands, are likely primary in origin. Coarser lithic fragments are not identified.

Mineralogy

Minerals	*Abundance*	*Grain Size*
Matrix		
Biotite	30-35%	0.1 – 0.4 mm
Sericite	9-10%	<0.1 – 0.2 mm
Dolomite/calcite	25-30%	0.1 – 1.0 mm
Potassium Feldspar	10-12%	< 0.1 – 0.2 mm
Quartz	1-2%	0.1 – 0.3 mm
Carbonaceous Opaques	8-10%	<0.1 – 0.4 mm
Black Sulphide-Oxides	0.25-0.5%	.25 - .75 mm
Vein:		
Calcite	2.0-3.0%	0.2 – 1.0 mm

Within this sample the identification of potassium feldspar is based largely on the volume of cobalt nitrate stain on the off cut. A very fine grained low birefringence mineral grain is noted within the rock matrix. These grains are typically less than 0.1 mm in width and the reliability of this identification is decreased due to the very small grain size.

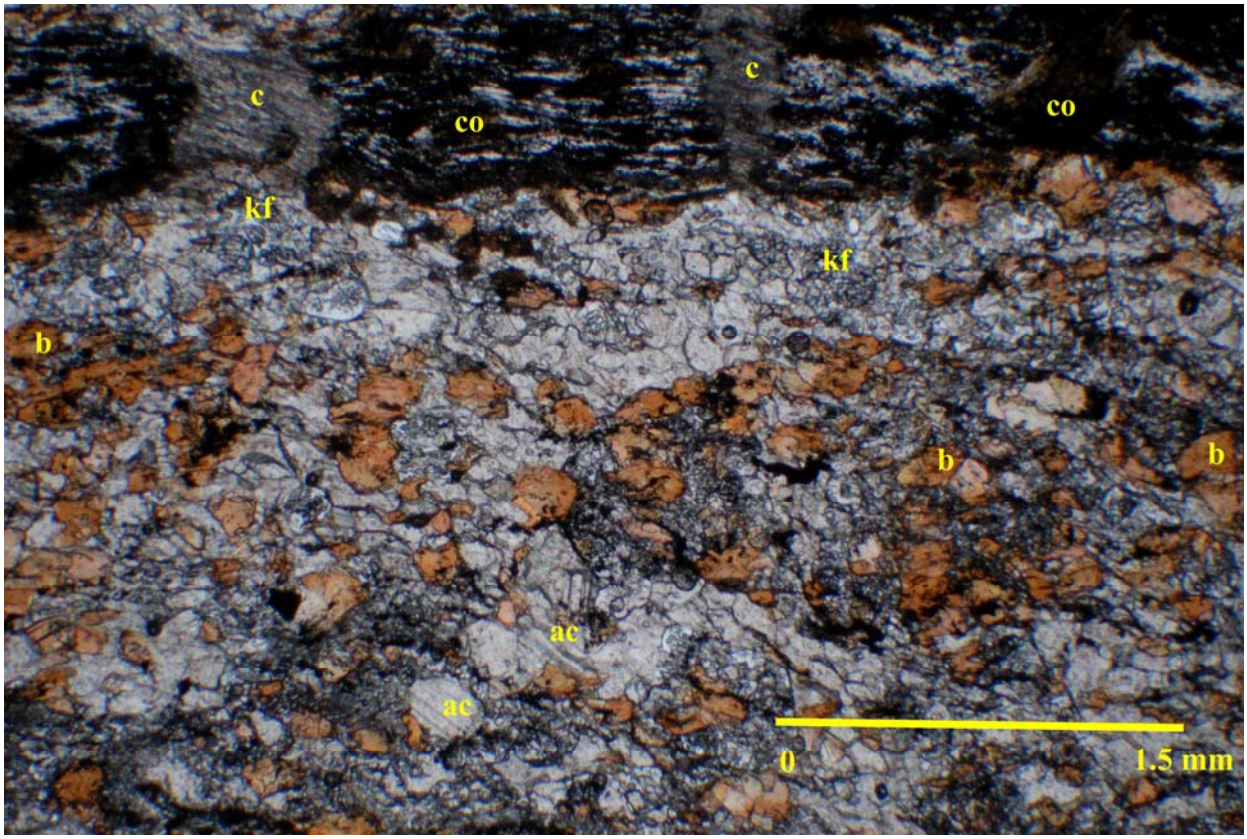
Porphyroblastic biotite forms moderately coarse medium brown mineral grains scattered throughout the rock matrix. In contrast, sericite is present only as very fine grained matrix mineral infill. Iron carbonates are noted throughout the rock matrix and locally are identified as discontinuous compositional lamella. Late calcite microveinlets have no recognizable selvedges and are forming at high angles to the dominant penetrative fabric. Very minor quartz grains are noted, these are typically very fine grained and locally contain carbonate inclusions.

Carbonaceous opaques are noted both as discrete very fine grained foliation parallel laminations and as coarser mm scale compositional forming lamella often associated with very fine grained sericite.

Dark black sulphide-oxide grains are disseminated within the matrix and lack any vein association. Sulphide-oxide grains contain abundant carbonate and lesser sericite inclusions.

Magnetic Susceptibility: 0.97 SI units.

Deformational Style: The rock has an strongly developed S1 fabric which is forming parallel to compositional layers. This strong flattening fabric is cut by narrow mm to sub mm calcite microveinlets which have the diagnostic orientation of late extensional veinlets. No rotational fabrics are identified.



Sample 09-26 @ 115.5. Brown biotite porphyroblasts are noted across the field in this plate. The highest concentration of potassium feldspar grains are likely located immediately adjacent to the dark grey black compositional layer in the upper field of view. Small extensional calcite veinlets have propagated through the more competent dark grey black opaque layer but fail to penetrate the more ductile carbonate rich matrix in the bulk of this section. Abbreviations c: calcite, co: carbonaceous opaques, kf: potassium feldspar, b: biotite, ac: iron carbonates. Transmitted plane polarized light, 25 x.

Sample 9-26 @ 150.5. Standard Petrographic Section, No Opaque Mineral Determination.

Protolith. Grey Biotite Porphyroblastic Dolomitic Limestone

The rock protolith is a dirty dolomitic limestone. This carbonate unit had received significant fine grained clastic input as evidenced by its dark grey matrix color, carbonaceous material, and abundant biotite porphyroblasts.

Mineralogy:

Mineralogy	*Abundance*	*Grain Size*
Matrix:		
Dolomite iron-carbonate	55-60%	0.2 – 0.8 mm
Biotite	15 – 20%	0.2 – 0.4 mm
Quartz	6-7%	< 0.1 – 0.2 mm
Sericite	4-5%	< 0.1 – 0.2 mm
Carbonaceous Opaques	8-9%	< 0.1 – 0.3 mm
Black sulphide/oxide opaques	1-2%	<0.1 – 0.3 mm
Apatite	trace	< 0.1 mm
Vein		
Calcite	3%	0.25 – 2.0 mm

Dolomitic carbonates appear throughout the field of view. Modest evidence for carbonate replacement textures occurs throughout the section. Approximately half of the dolomitic grains identified in this section are primary and approximately half are likely early replacements.

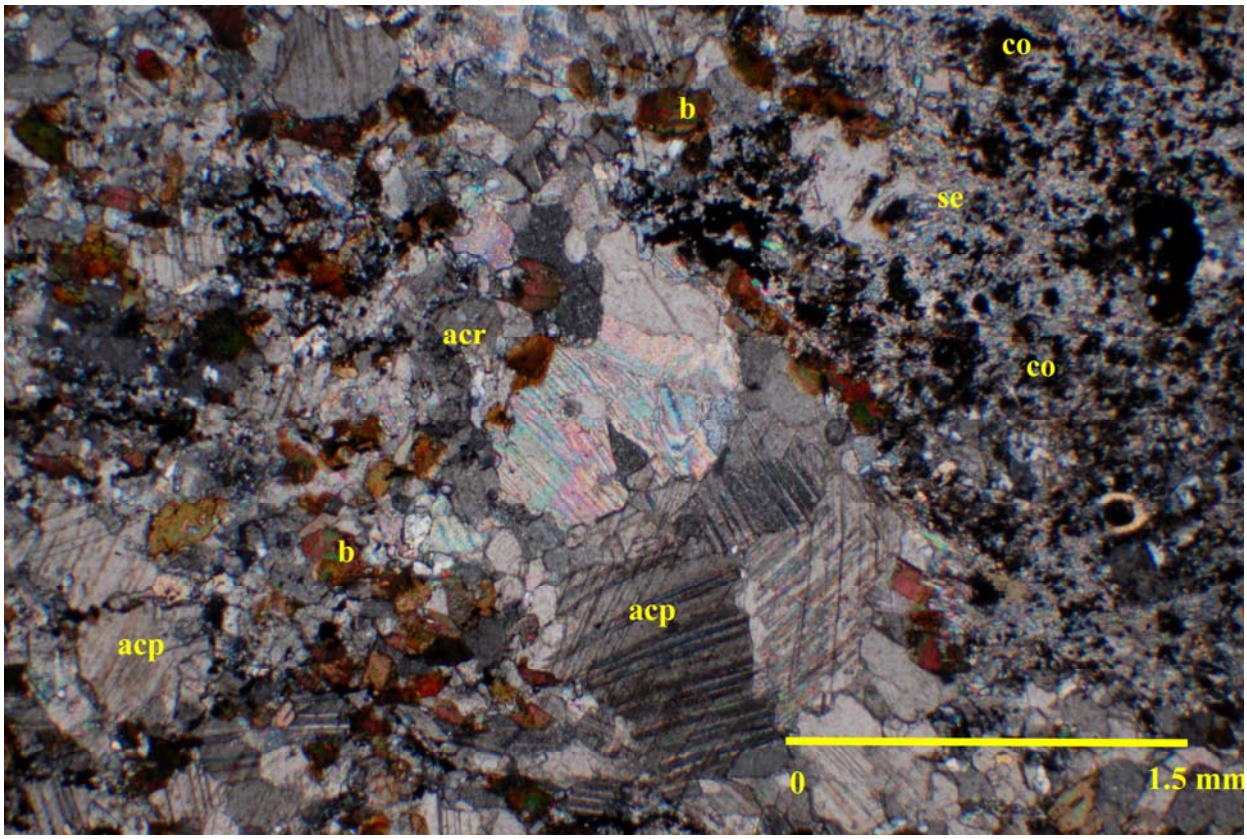
Stubby biotite grains occur throughout the rock mass and are loosely organized into diffuse lamella. Sericite occurs as very fine grained aggregates and generally associated with elevated brown carbonaceous aggregates. Carbonaceous aggregates form, and outline, discrete mm scale zones and form foliation parallel masses. Black sulphide-oxide phases are randomly distributed throughout the section.

Quartz grains are noted as small euhedral grains often located at the boundaries of dolomitic grains.

Calcite veins are foliation parallel, approximately 5 mm in width and lack alteration halos. These veinlets have likely formed pre-S1.

Magnetic Susceptibility: 0.18 SI units.

Deformational Style: The sample displays a modest penetrative S1 fabric which has formed biotite grains into loose compositional lamella. Carbonaceous opaques also are deformed into the S1 cleavage plane as are very fine grained sericites. No pressure solution shadows and no rotational fabrics are identified within this section. Twin planes within calcite show abundant Type II plus or minus Type I deformation planes.



Sample 9-26 @ 150.5. Significant textural variation is noted within this section. An aggregate of very fine grained sericite and carbonaceous opaques is noted in the upper right hand field of view. Primary iron carbonate grains are noted in the central field of view. These coarser grains are flanked by smaller anhedral dolomite grains. Abbreviations: b: biotite, acp: ankeritic-iron carbonates primary, acr: ankeritic iron carbonates replacements, b: biotite, co: carbonaceous opaques, se: sericite.

Sample 09-36 @ 155.45. Standard Petrographic Section, No Opaque Mineral Determination.

Protolith: Biotite Porphyroblastic Grey Limestone

The sample has been cut from a moderately biotite porphyroblastic, well foliated, dark grey dolomitic limestone which is flecked with pale cream calcite aggregates. Relative to other dolomitic rocks examined in this suite, this sample likely has a higher percentage of calcite as opposed to dolomite.

Mineralogy:

Minerals	*Abundance*	*Grain Size*
Matrix		
Ankerite-calcite	55-60%	0.2 – 0.8 mm
Biotite	15 – 17%	0.1 – 0.4 mm
Sericite	7-8%	<0.1 – 0.2 mm
Quartz	2-2.5%	< 0.1 mm
Chlorite	0.25%	<0.1 – 0.25 mm
Black opaque sulphide/oxides	3-4%	.1 - .3 mm
Apatite	trace	< 0.1 mm

Ankerite plus or minus calcite are distributed as annealed grains throughout the matrix, commonly with well formed stable triple junction boundaries. These minerals form the dominant rock forming carbonate. Evidence for secondary dissolution features within this unit is modest.

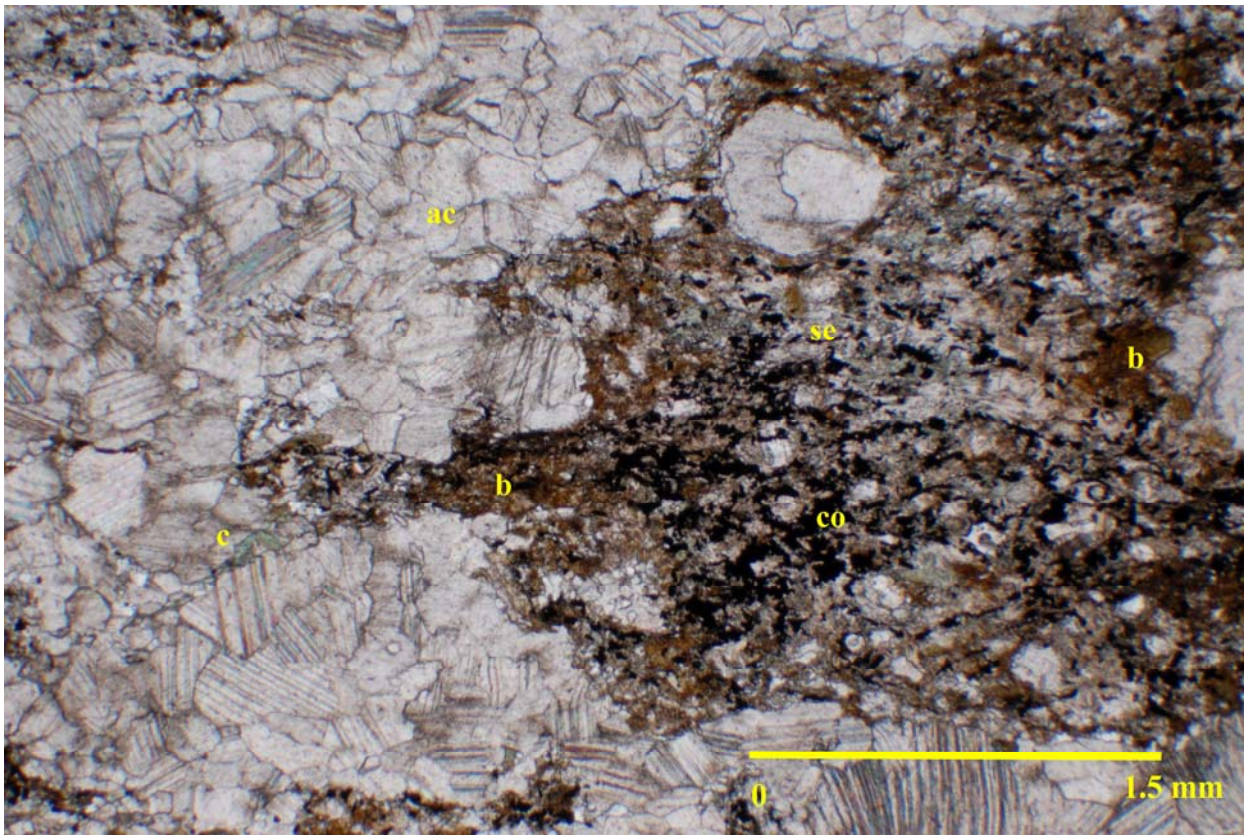
Biotite forms distinctive, discontinuous sub-mm lamella, along with sericite and black opaques, form a well defined strong S1 cleavage.

Very small quartz grains are present as small anhedral aggregates which are distributed throughout the rock mass.

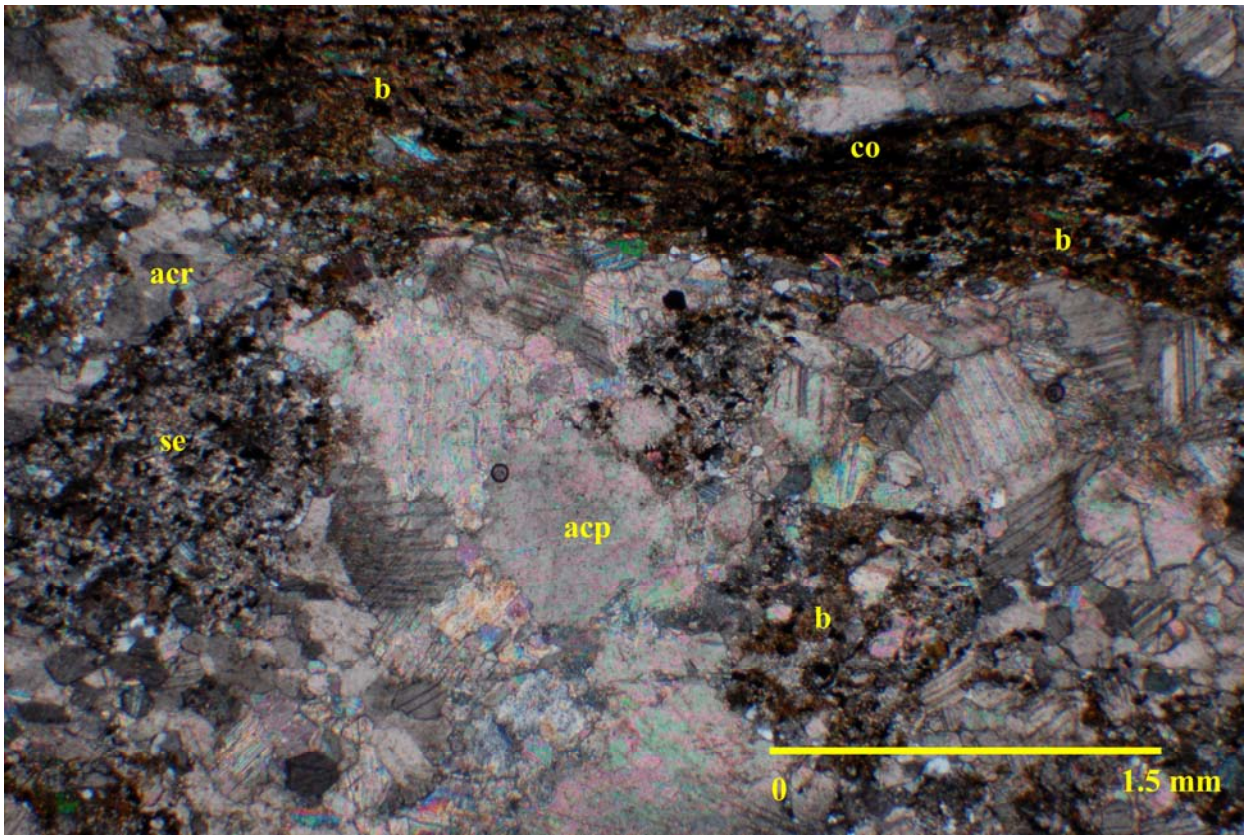
Chlorite grains are rare and most typically associated, or forming internal to, biotite aggregates. Some of these grains may be retrograde.

Magnetic Susceptibility: 0.26 SI units.

Deformational Style: All mineral phases have been affected by a moderate to strong flattening fabric. Biotite porphyroblasts form elongated planar groups in this fabric and ankerite-calcite grains are also elongate into the fabric plane. No rotational fabrics and no strain shadows are identified adjacent to angular opaque sulphide grains.



Sample 09-36 @ 155.45. Under plane polarized light the irregular nature of biotite-carbonaceous opaque clots is clearly identified. Although these have been deformed into the early S1 fabric plane, their initial orientation and shape is likely to have been very irregular reflecting the nature of dissolution processes. Abbreviations ac: iron carbonates, b: biotite, c: chlorite, co: carbonaceous opaques, se: sericite. Transmitted light, plane polarized, 25x.



Sample 09-36 @ 155.45 Under crossed polarized light the patchy distribution of primary carbonate phases versus secondary carbonates is noted. Planar S1 parallel aggregates of biotite and carbonaceous opaques are present in the upper field of view. Finer grained zones of sericite, re-crystallized carbonates and biotite are forming at oblique to irregular angles to planar S1 surfaces. Dark black opaque mineral phases have a strong spatial relation to zones of elevated fine grained sericites and micas. Abbreviations, acr: re-crystallized iron carbonates, se: sericite, acp: primary iron (or magnesium) carbonates, b: biotite, co: carbonaceous opaques. Transmitted light, crossed polars, 25x.

Sample 09 – 41 @ 180.5: Polished Thin Section

Altered Protolith: Iron Oxide Replaced, Sericitic Dolomitic Limestone.

The sample has undergone texturally destructive oxidation. The presence of locally rhomb shaped cavities and proportions of residual phases of quartz and sericite suggest that the protolith of this rock was likely to have been a medium grained dolomitic limestone. The sample contains numerous vugs and cavities and appears to have been completely oxidized.

Two oxide phases are noted in hand specimen including a red brown iron oxide and a yellow orange oxide.

Mineralogy:

Mineral	*Abundance*	*Grain size*
Iron oxide (hematite)	68 – 72%	amorphous
Iron oxide (goethite)	3-4%	amorphous
Sericite-phengite	20-22%	<0.1 – 0.25 mm
Carbonaceous opaques	7-8%	<0.1 mm – 0.25 mm
Quartz	1- 1.5%	< 0.1 mm

The bulk of the matrix of the rock is composed of reddish brown iron oxide, an amorphous hematite. In thin section this mineral is composed of very small radiating and linking sub-rounded ovals and nodules. The volume of limonitic material in this sample reflects both:

1. The volume of degraded primary sulphides.
2. Breakdown and release of iron from iron and magnesium carbonates.

The formation of limonitic oxides can be done by the liberation iron from mineral phases other than sulphides. In the present case, most of these oxides may have been liberated from the breakdown and replacement of iron carbonates.

A yellow orange iron oxide forms a mm scale band at the base of the thin section. Under strong transmitted light, it is semi-transparent and deep red in color. This oxide is likely a hydrous iron oxide, goethite.

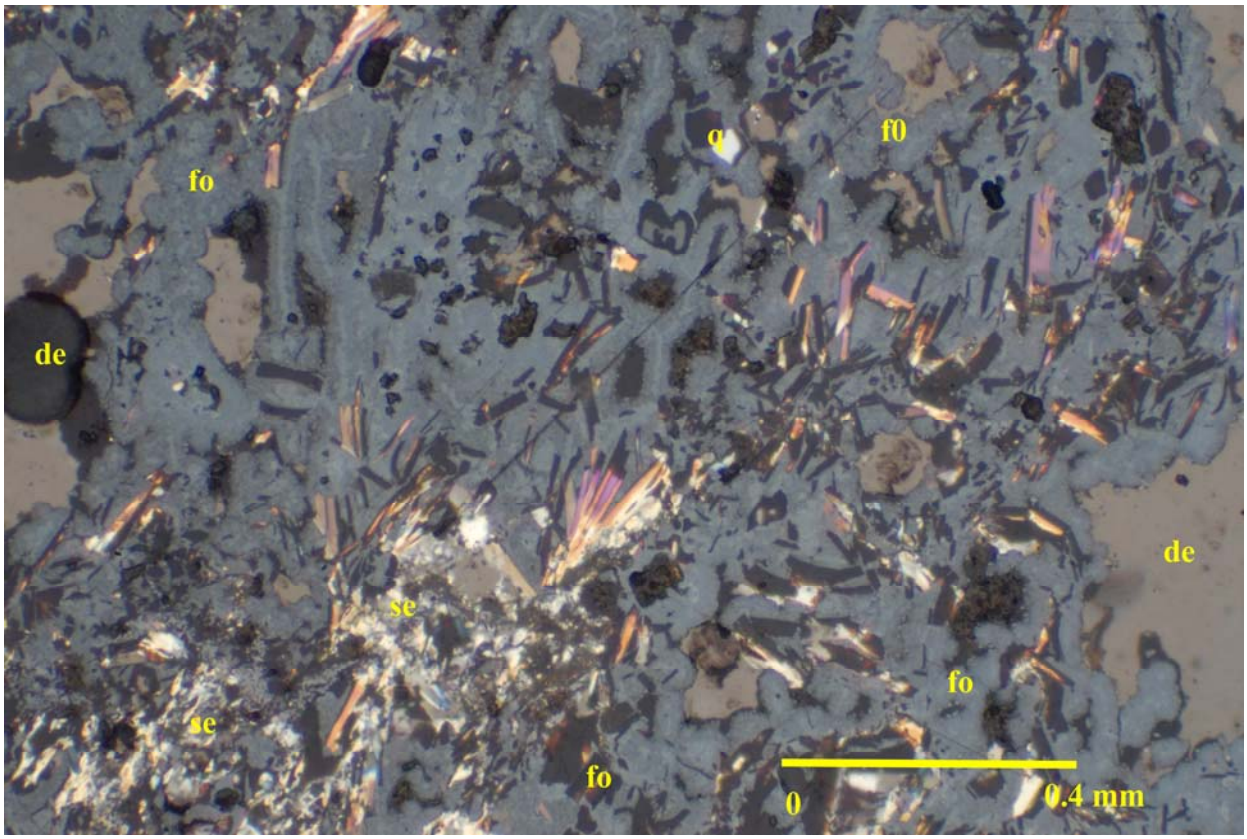
Sericite is distributed throughout the matrix of the rock and contains very small non-aligned sericite lathes and aggregates. A slightly coarser form of this mineral locally lines empty vesicles and its weak pleochroism may suggest that it is a phengitic mica. Sericite may form corroded aggregates up to 8 – 9 mm in length.

Very small residual quartz grains occur scattered throughout the matrix. These grains are similar in size and volume to that noted in unaltered dolomitic limestones.

The section contains a very high percentage of voids or empty space. Several of these have preserved rhombohedra shapes and are likely after iron carbonates.

Magnetic Susceptibility: 2.51 SI units.

Deformational Style: No penetrative fabrics are preserved in this deeply weathered and corroded rock unit. In addition, no late extensional fabrics are preserved.



Sample 09 – 41 @ 180.5. The photomicrograph is taken on moderate transmitted and moderate reflected light. The curvilinear shape of the boundaries of the dark grey iron oxides which form much of the background of this rock are common in haematitic replacements. No preserved sulphide phases are noted within this matrix. Radiating sericite – phengite lathes are present throughout the matrix. The angular open space on the lower right hand field of the plate is interpreted as a corroded outline of a dolomitic carbonate. Abbreviations fo: iron oxides, se: sericite, de: dolomitic empty space, q: quartz. Transmitted and reflected light with crossed polars, 100x.

Sample 09-48 @ 158.2. Standard Petrographic Section, No Opaque Mineral Determinations.

Protolith: Magnetiferous Calcareous Peloidal Siltite.

This dull grey strongly porphyroblastic rock unit is characterized by:

1. A strong flattening fabric and alignment of mm to sum-mm scale clasts into this fabric.
2. General compositional homogeneity with, on the scale of the sample, an absence of well defined compositional layers.
3. Matrix grain sizes which range from silt to sand size.
4. Distinctive sub-mm scale oval or peloidal forms are identified on the macroscale.

Mineralogy:

Mineral	Abundance	Grain Size
Dolomite-iron carbonate	40-45%	0.2 – 0.5 mm
Sericite	35-38%	<.1 mm – 0.2 mm
Carbonaceous opaques	7-8%	< .1 mm – 0.2 mm
Orange brown semi-opaques	2 -3%	0.1 – 0.3 mm
Black sulphides/oxides	6-7%	.2 – 0.6 mm
Quartz	2-3%	0.1 – 0.25 mm
Chlorite	trace	< .1 – 0. 25 mm
Apatite	trace	< 0.1 mm

Dolomitic carbonates from oval to lozenge shaped aggregates throughout the field of view. In rare cases, oval to rounded, possible bioclastic outlines may be preserved. Discordant dolomitic veins are absent.

Quartz is noted as small, generally less than 0.25 mm polysutured grains. The polysutured nature of some of these grains suggest that they are likely detrital in origin.

Sericite forms very fine grained matrix infill with rare coarser grained blades and aggregates. It is abundant within the matrix and is commonly flanked by carbonaceous opaques.

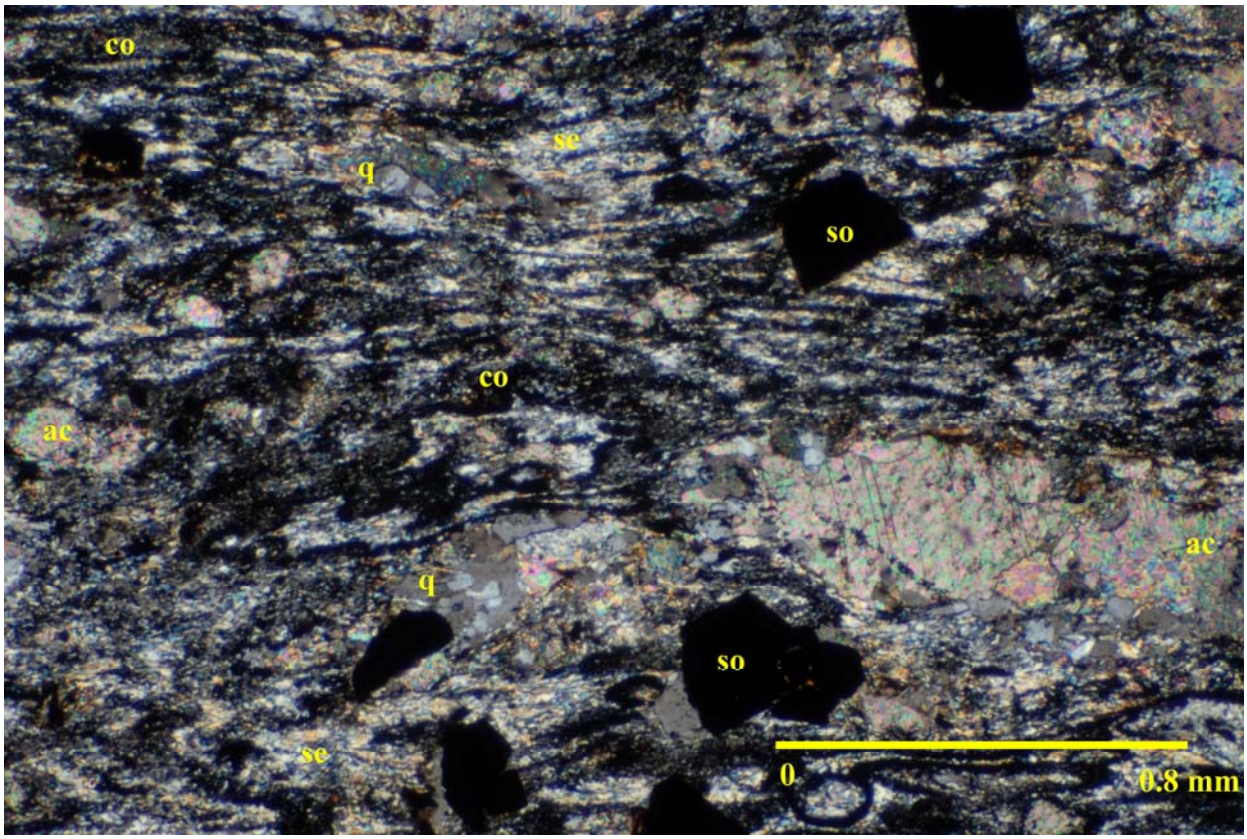
Both dark brown to black carbonaceous opaques and orange-brown (hydrous iron?) semi-opaques have been deformed into complex shape fabrics as well as outlining the principle orientation of S1 fabric. Chlorite is always noted proximal to biotite grains and aggregates. In this sample chlorite may represent a retrograde mineral.

Dark black opaques are very likely to be dominantly magnetite as is evidenced by the very high susceptibility of this rock unit. These grains do not deflect the main

metamorphic fabric and are likely syn-metamorphic. Magnetite porphyroblasts cross all grain boundaries and are identified with all mineral composition types. Peloidal forms are well outlined by dark grey-black semi-opaque rinds which are cored by very fine grained matrix sericite. Peloidal forms are up to 0.1 x 0.4 mm in dimension.

Magnetic Susceptibility: 22.2 SI units.

Deformational Style: Although weak rotational fabrics are suggested in hand specimen, in thin section, no rotational fabrics are identified. The rock carries a single strong S1 fabric and lacks any post-date fabric types. Late extensional features are not identified within this unit. If the peloidal forms are assumed to have originally been perfect ovals than a 4 to 1 flattening ratio in this rock package is likely.



Sample 09-48 @ 158.2. In crossed polarized light, the distinctive iron carbonate aggregates which form a significant portion of this rock are well illustrated. Polysutured quartz grains are noted within this field of view, particularly in the left central field of view. All mineral components within this rock unit are deformed into a strong S1 fabric. The absence of pressure shadows associated with the dark black sulphide-oxide grains suggest that these minerals are also porphyroblasts and have formed synchronous with the dominant metamorphic event. Abbreviations: co: carbonaceous opaques, se: sericite, so: sulphide-oxide, ac: iron carbonates, q: quartz. Transmitted light crossed polars, 50x.

09-69 @ 59.8. Standard Petrographic Section, No Opaque Mineral Description.

Protolith: Strongly Biotite Porphyroblastic Laminated Magnetiferous Siltite.

The rock unit is well defined by the abundance of fine grained biotite, very strong magnetic susceptibility and well developed mm scale compositional lamella. Preserved clasts are absent. In its un-metamorphosed state the rock would likely have been a fine grained pelitic sediment.

Mineralogy:

Minerals	*Abundance*	*Grain Size*
Matrix		
Biotite	35-40%	.1-0.25 mm
Sericite	30-35%	< 0.1 mm
Euhedral black opaque sulphides/oxides	4-5%	.3 - .8 mm
Anhedral black opaques	15-18%	< .1 - .25m
Quartz	3-4%	<0.1 – 0.3 mm
Apatite	trace	< 0.1 mm
Chlorite	trace	< 0.1 mm
Early Vein		
Biotite	1-1.5%	< .1 – 0.25 mm
Dolomite iron carbonate	2.5-3%	0.2 – 0.8 mm
Euhedral black opaques	0.25-0.5%	.3 - .8 mm
Anhedral black opaques	0.1 – 0.2%	< 0.1 mm
Quartz	0.5 – 0.75%	<.1 mm – 0. 2mm

All biotite in this rock is metamorphic in origin. Biotite porphyroblasts from mm scale compositional bands and layers which may reflect primary compositional layers and are sub-parallel to S1 fabrics. Biotite also flanks and forms the perimeter to small circular complex porphyroblastic aggregates, often 2 – 3 mm across, and cored by sericite and quartz.

Sericite forms similar compositional layers, however this mineral phase is exceptionally fine grained. Although the off-cut does contain weak cobalt nitrate stain, this intensity of the stain, and the absence of definitive potassium feldspar aggregates, suggest that small sericite aggregates have accepted a weak stain.

The rock contains an exceptionally high percentage of opaque black mineral phases. Some of these are clearly magnetite others are likely carbonaceous – organic carbon opaques. Quartz grains are most often noted as well developed pressure shadows to euhedral black sulphide-oxide grains.

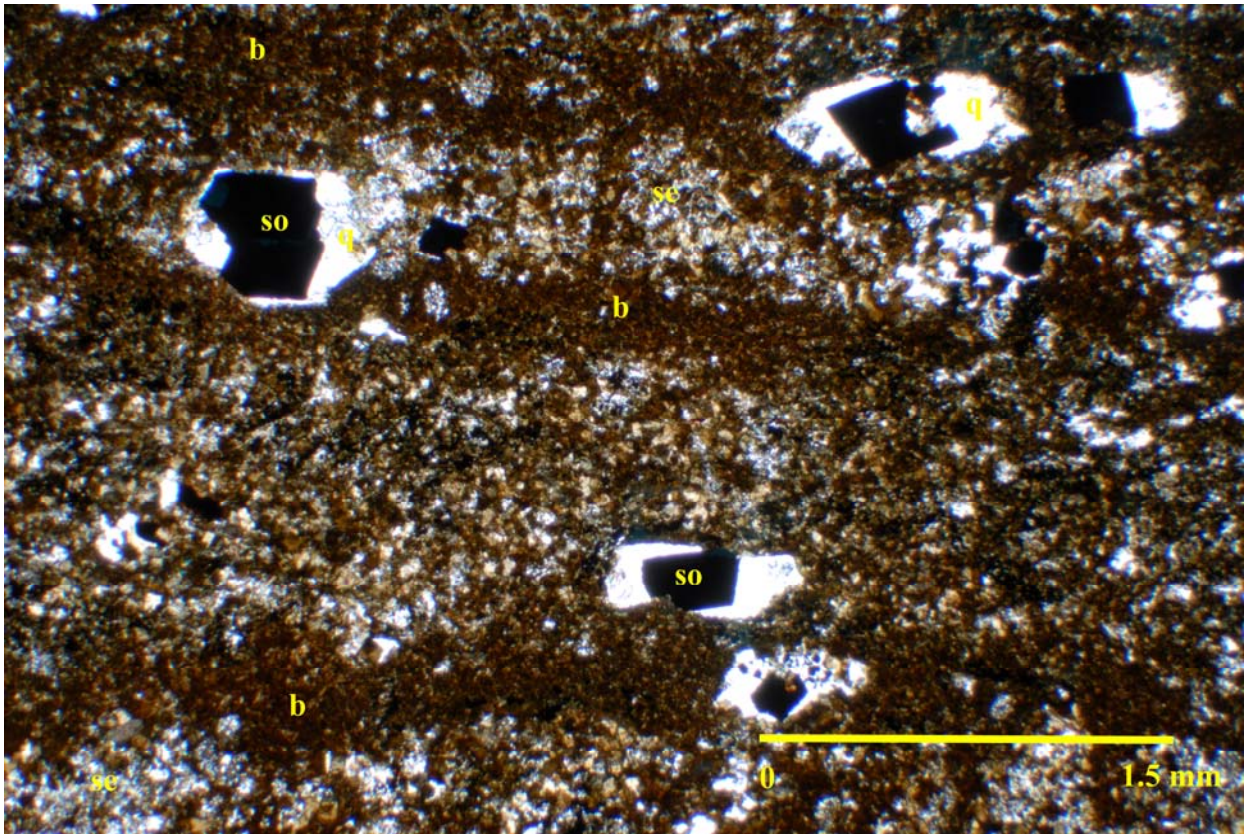
A single early quartz-carbonate vein is noted in this section. The vein is partially oblique to early compositional layers but contains identical mineral assemblages to the rock matrix. These early veins pre-date S1 metamorphism.

Deformational Style

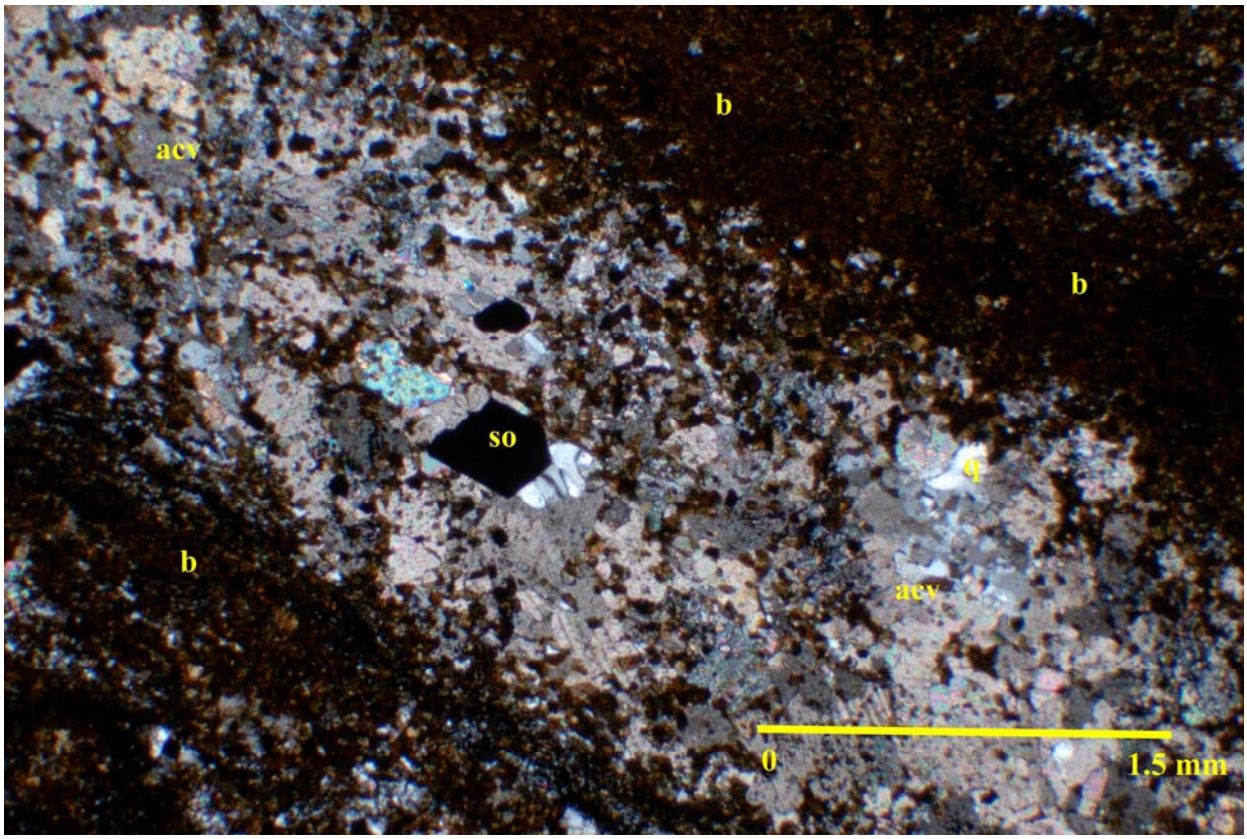
The unit has an single pronounced S1 fabric. Within the rock unit superb quartz rich pressure shadows are developed with euhedral black opaque mineral grains. Significantly, all of these pressures shadows are symmetric, and are non-rotational.

No late extensional fabrics or post S1 fabrics are noted within this sample.

Magnetic Susceptibility: 11.2 SI units.



09-69 @ 59.8. In plane polarized light, the density of porphyroblastic biotite compositional layers are clearly noted. Quartz pressure shadows flank euhedral sulphide-oxide grains are entirely symmetrical and no rotational fabrics are defined. Abbreviations b: biotite, se: sericite, q: quartz, so: sulphide-oxide aggregates. Plane polarized light, 25 x.



09-69 @ 59.8. A very early mm scale quartz-carbonate veinlet traverses the central position of the field of view. Very margins are blurred by a slow decrease in the volume of metamorphic biotite. All mineral phases in the interior of the vein may also be found within the rock matrix. The vein forms at a very shallow angles to early matrix compositional layers. Abbreviations: b: biotite, so: sulphide-oxide, q: quartz, acv: ankerite-calcite vein. Transmitted light, crossed polars, 25x.

Sample 09 – 44 @ 154.45. Standard Petrographic Section. No Opaque Mineral Determinations.

Protolith: Very Fine Grained Compositionally Laminated Quartz and Clay Rich Siltites

The rock is a fine grained well compositionally laminated siltite. The unit contains interdigitated fine grained quartz rich lamella and grey to cream siltite lamella containing cuspate, clay sericite rich lithic fragments.

Mineralogy:

Matrix

Mineral	*Abundance*	*Grain Size*
Sericite	45-50%	<0.1 – 0.2 mm
Biotite	20-25%	<0.1 – 0.3 mm
Quartz	10-11%	<0.1 - .4 mm
Black anhedral opaques	12- 13%	<0.1 – 0.25mm
Dolomite	0.25 – 0.5%	<0.1 – 0.2 mm
Euhedral opaques	1.0 – 1.5%	0.2 – 0.4 mm
Clinozoisite-epidote	.1-.2%	0.1 – 0.5 mm
Zircon	trace	<.1 – 0.15 mm
Chlorite	trace	<0.1 mm

Vein

Biotite	1.0 – 1.5%	.1 – 0.4 mm
K-feldspar	0.5 – 0.75	.1 – 0.3 mm
Quartz	0.25%	.1 – 0.3 mm
Dolomite-iron carbonate	0.5%	.2 - .4 mm

The rock contains several compositional domains. A narrow mm scale quartz lithic rich bed is located near the base of thin section, and is illustrated on the accompanying plate. This interval contains the bulk of the quartz grains noted within this rock and significantly elevated biotite. The portion sample also contains well form frosted and abraded zircon and is the only rock type to contain this minor element.

Very fine grained sericite is best associated with quartz and biotite deficient zones. Elevated very fine grained sericites may have been associated with rocks with high primary clay contents.

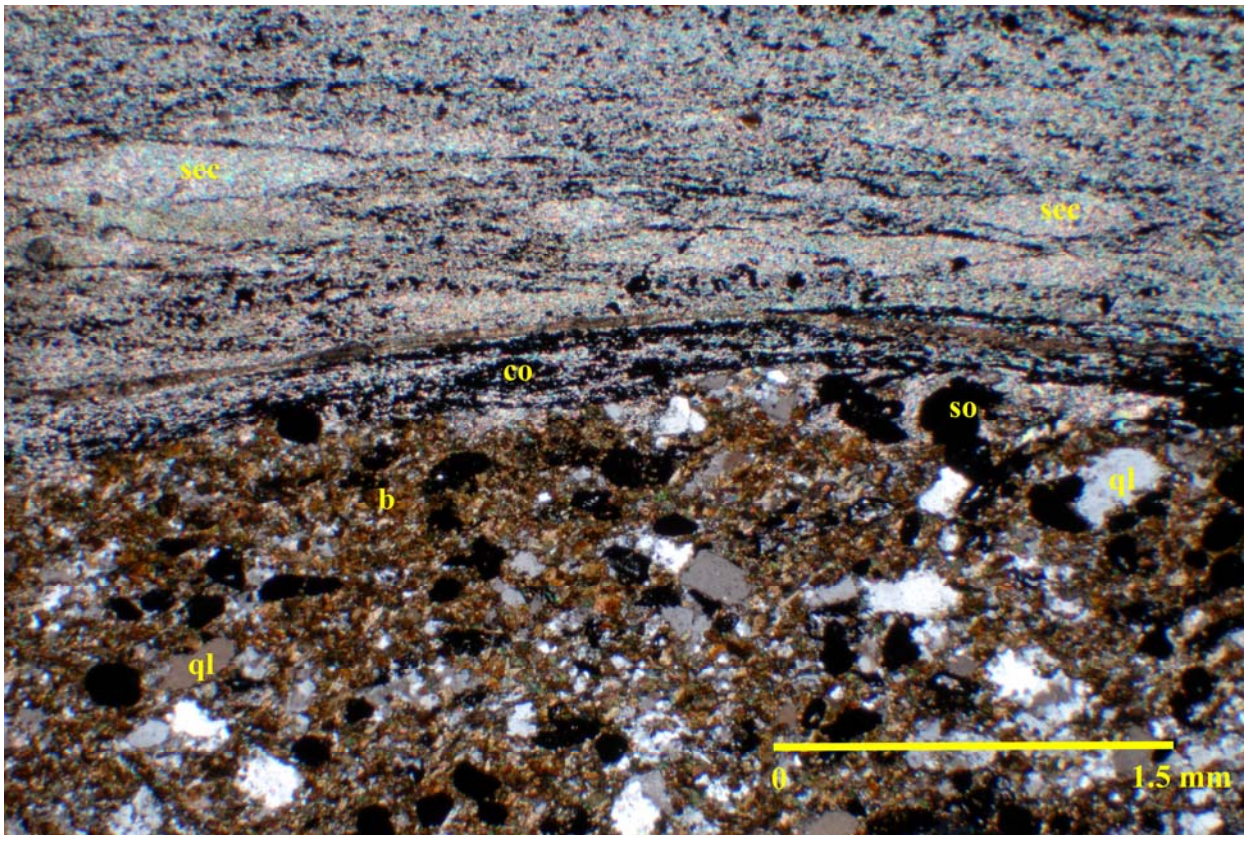
Sericite is also strongly elevated in lithic cast rich zones of this rock unit. Lithic casts are rimmed by dark black opaques and are cuspate ellipsoids in form. Black opaques are noted in all rock types.

Clinozoisite-epidote are most commonly noted as lining the cores of small biotite-quartz sites. Chlorite is noted very rarely and may be present as a minor retrograde mineral.

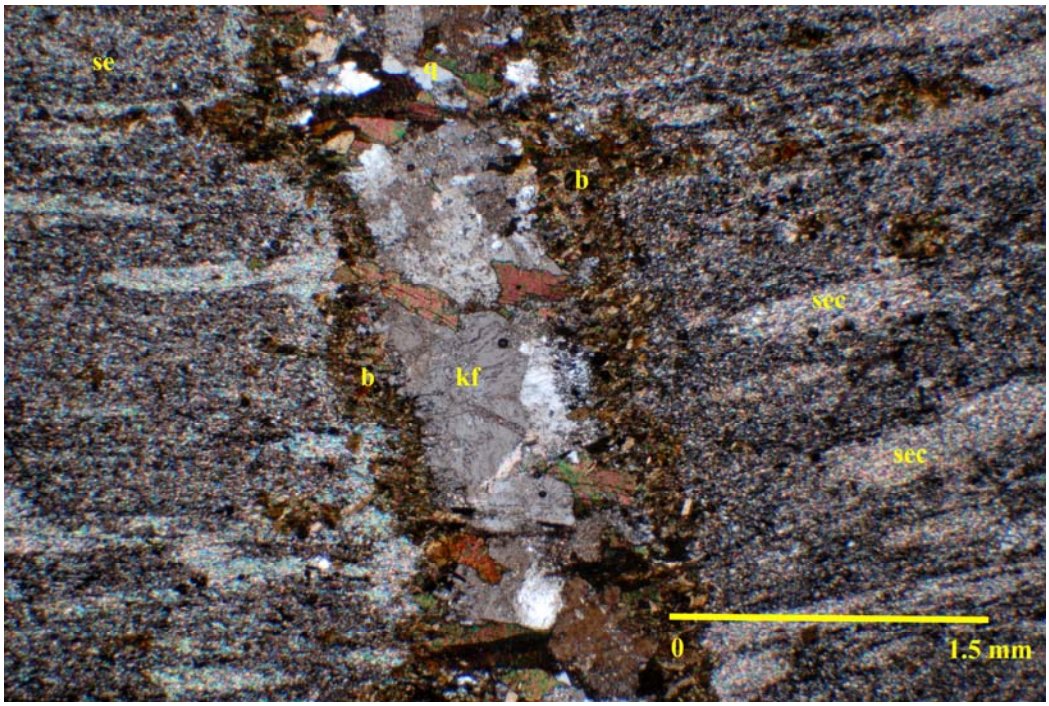
The rock contains a single mm wide extensional veinlet. This veinlet has a well developed biotite halo and is the first definitive example of secondary potassium feldspar residing in these veins. The veinlet generally has a weak sulphide-oxide association.

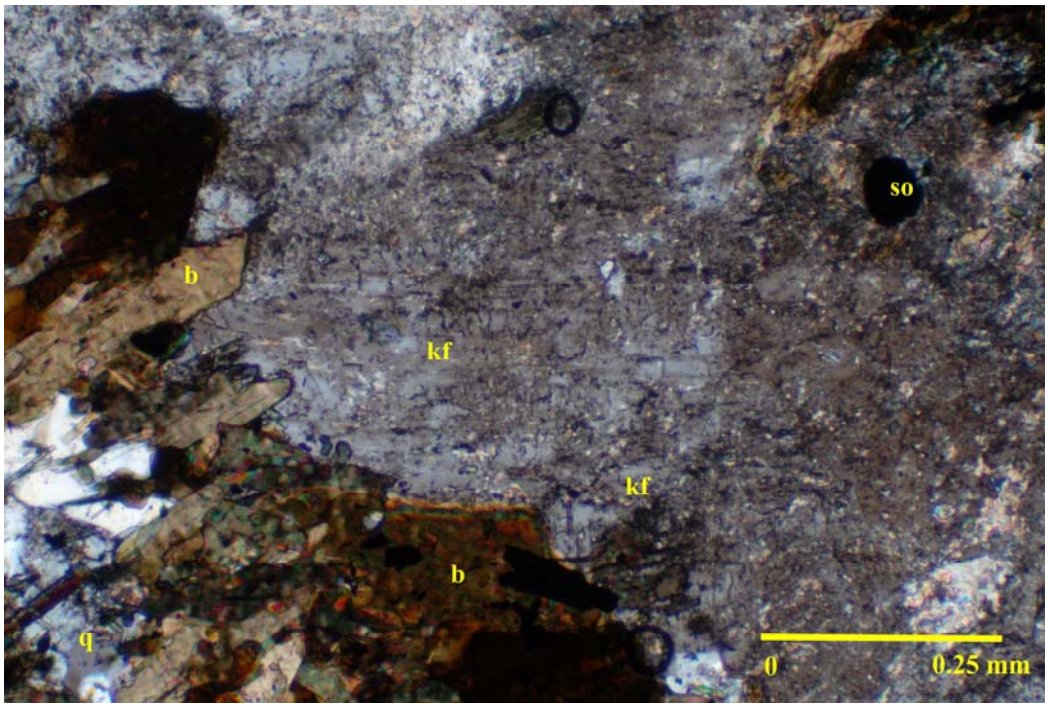
Magnetic Susceptibility: 0.06 SI units.

Deformational Style: The unit contains no rotational or shear fabrics. The S1 is parallel to So which infers that the sample has been taken from the limb, not hinge position of any related folds. Pressure shadows are absent. The single vein noted in the sample is a classic extensional vein, the extensional nature of the vein is clear from the orientation of biotite fiber growth relative to the vein margin.



Sample 09 – 44 @ 154.45. Primary compositional layers defined by the onset of angular quartz rich lithics and elevated biotite are in sharp contrast to the very fine grained sericite (clay) and clast rich lamella in the upper field of view. S1 fabrics approximately parallel So contacts. Abbreviations: sec: sericite cast, co: carbonaceous opaques, so: sulphide-oxide, ql: quartz lithic, b: biotite. Transmitted light, crossed polars, 25x.





Sample 09 – 44 @ 154.45. Textural and compositional characteristics of biotite-potassium feldspar extensional veins are highlighted on these plates. The veins have strong biotite halos and contain a significant percentage of internal potassium feldspar. The perpendicular orientation of mariginal biotite grains to the vein margins clearly indicates that these are extensional veins. The orthogonal cleavages sets common to potassium feldspars are clearly noted in the lower plate. Abbreviations: b: biotite, kf: potassium feldspar, q: quartz, se: sericite, sec: sericite cast. Transmitted light crossed polars, upper plate 25x, lower plate 100x.

Sample 09 – 64 @ 130.5 Standard Petrographic Section, No Opaque Mineral Determinations.

Protolith: **Option A:** Magnetiferous Volcanic/Intrusive Breccias Lesser Lithic Wackes
Option B: Magnetiferous Polylithic Pebble Conglomerates

Macroscale or hand specimen indicators suggest this is a complex rock unit both in terms of its alteration parameters and it's litho type. The sample contains three sub-rounded cm scale fragments. One of these has been selectively sericitized, is pale yellow cream in color, and contains a well developed, narrow mm scale, very fine grained silica (?) rich rind. The fragment contains sporadic but reasonably definitive feldspar microliths. The remaining two cm scale fragments are dark grey black, also contain probable feldspar casts and contain a matrix dominated by dark black brown oxides. Both fragment types are sub-rounded. Between the fragments the protolith appears to be a brown black fine grained lithic wacke.

None of the textures are pepritic. Macroscale data suggests two potential protoliths for this rock type including:

1. The sample has been taken from either contact between a flow/dyke complex and the enclosing sedimentary sequence, or it's an intrusion or contact breccia.

2. The sample is of a polylithic pebble conglomerate.

Mineralogy:

Mineral	*Abundance*	*Grain Size*
Sericite	60-63%	< 0.1 mm
Black Opaques	20-25%	< 0.1 – 0.25 mm
Brown Carbonaceous Semi-Opaques	8-9%	< 0.1
Biotite	3-4%	< 0.1 - .2 mm
Euhedral Black Sulphide/Oxide	2%	0.1 – 0.3 mm
Quartz	0.25%	< 0.1 mm
Apatite	trace	< 0.1 mm

Note: This section is devoid of iron, magnesium or calcium carbonates.

Fine grained sericite occurs throughout this matrix and is the dominant silicate phase in all clast types and is the dominant mineral grain within interstices between the fragments. All sericites are exceptionally fine grained averaging well under 0.1 mm.

Fine grained black opaques have, under greater than 100x magnification well developed square euhedral forms. Brown carbonaceous semi-opaques are generally amorphous and

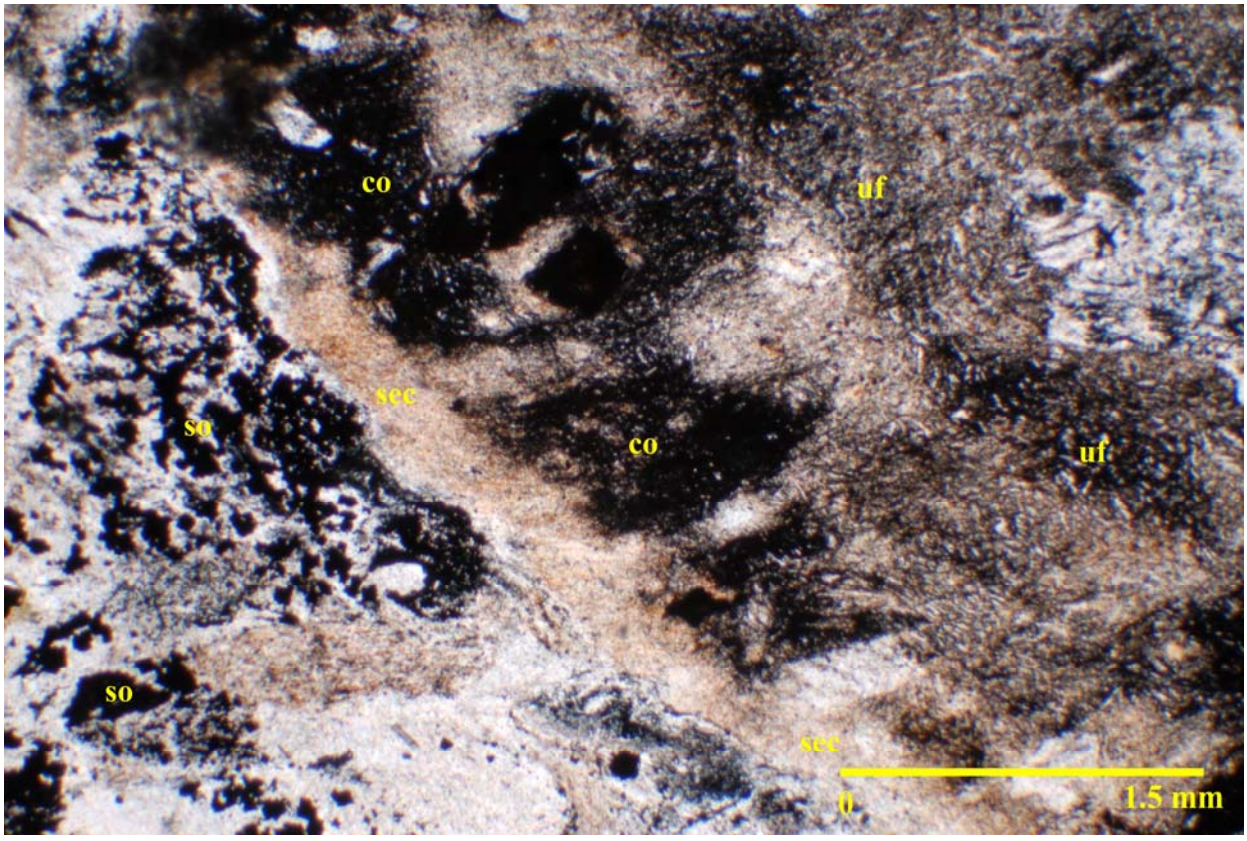
lack well defined crystal forms. Both opaque mineral varieties form curvilinear arcuate forms or complex interlinked mesh textures.

Biotites are present only as minor isolated aggregates, as is quartz, and is noted only as rare and very small grains. All fragment types likely may have mafic protoliths. Apatite grains are preferentially identified in the interstices material between larger fragments.

It is significant the large yellow fragment in this sample appears to have a reaction rind at the lithic wacke contact. This may suggest that the fragment is not in equilibrium, ie. Its "hot", with the enclosing sediments. However, reaction rinds are not identified with the dark brown lithic fragments.

Magnetic Susceptibility: 29.2

Deformational Style: A single well identified penetrative fabric penetrates all clast and matrix forms. No rotational fabrics are identified and no post S1 fabrics are recognized.



Sample 09 – 64 @ 130.5. Contact relations between a pale cream sericitized volcanic clasts and the enclosing sediments are illustrated on this plate. The clast has a definitive chilled or contact margin, indicated by "sec". The fragment matrix in the upper right field of view is distinctly microlithic and has either been derived from a mafic flow or fine grained mafic dyke/sill. Abbreviations, sec: sericite contact, uf: microlithic feldspar, co: carbonaceous opaque, so: sulphide/oxide. Transmitted plane polarized light, 25x.

APPENDIX X

QAQC RESULTS

BLANK SAMPLES

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-19	BLANK	BATCH 01	H246812	0.15	
Rau-09-19	BLANK	BATCH 01	H246833	0.03	
Rau-09-20	BLANK	BATCH 02	H246844	<0.01	
Rau-09-20	BLANK	BATCH 02	H246869	<0.01	
Rau-09-21	BLANK	BATCH 03	H246879	<0.01	
Rau-09-21	BLANK	BATCH 03	H246894	<0.01	
Rau-09-21	BLANK	BATCH 04	H246915	<0.01	
Rau-09-22	BLANK	BATCH 04	H246926	<0.01	
Rau-08-18	BLANK	BATCH 05	H246970	<0.01	
Rau-08-18	BLANK	BATCH 05	H246981	<0.01	
Rau-09-23	BLANK	BATCH 06	H246989	<0.01	
Rau-09-23	BLANK	BATCH 06	H247017	0.03	
Rau-09-24	BLANK	BATCH 07	H247036	<0.01	
Rau-09-25	BLANK	BATCH 07	H247054	<0.01	
Rau-09-25	BLANK	BATCH 08	H247063	<0.01	
Rau-09-25	BLANK	BATCH 08	H247086	<0.01	
Rau-09-25	BLANK	BATCH 09	H247101	<0.01	
Rau-09-26	BLANK	BATCH 09	H247114	<0.01	
Rau-09-26	BLANK	BATCH 10	H247136	<0.01	
Rau-09-26	BLANK	BATCH 10	H247158	<0.01	
Rau-09-25	BLANK	BATCH 11	H247174	0.01	
Rau-09-27	BLANK	BATCH 11	H247185	<0.01	
Rau-09-27	BLANK	BATCH 12	H247213	<0.01	
Rau-09-27	BLANK	BATCH 12	H247220	0.03	
Rau-09-29	BLANK	BATCH 13	H247237	<0.01	
Rau-09-28	BLANK	BATCH 13	H247261	<0.01	
Rau-09-29	BLANK	BATCH 14	H247279	<0.01	
Rau-09-30	BLANK	BATCH 15	H247323	<0.01	
Rau-09-31	BLANK	BATCH 15	H247343	<0.01	
Rau-09-31	BLANK	BATCH 16	H247348	0.01	
Rau-09-31	BLANK	BATCH 16	H247370	0.01	
Rau-09-31	BLANK	BATCH 17	H247398	<0.01	
Rau-09-33	BLANK	BATCH 17	H247415	<0.01	
Rau-09-33	BLANK	BATCH 18	H247434	0.01	
Rau-09-33	BLANK	BATCH 18	H247443	<0.01	
Rau-09-33	BLANK	BATCH 19	H248605	<0.01	
Rau-09-34	BLANK	BATCH 19	H248634	0.01	

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-34	BLANK	BATCH 20	H248640	0.01	
Rau-09-34	BLANK	BATCH 20	H248652	<0.01	
Rau-09-36	BLANK	BATCH 21	H248693	0.01	
Rau-09-36	BLANK	BATCH 21	H248704	0.01	
Rau-09-36	BLANK	BATCH 22	H248714	0.01	
Rau-09-36	BLANK	BATCH 22	H248719	<0.01	
Rau-09-37	BLANK	BATCH 23	H248745	<0.01	
Rau-09-37	BLANK	BATCH 23	H248760	<0.01	
Rau-09-38	BLANK	BATCH 24	H248783	0.01	
Rau-09-38	BLANK	BATCH 24	H248792	<0.01	
Rau-09-38	BLANK	BATCH 25	H884465	<0.01	
Rau-09-40	BLANK	BATCH 25	H884484	<0.01	
Rau-09-40	BLANK	BATCH 26	H884505	<0.01	
Rau-09-39	BLANK	BATCH 26	H884513	0.01	
Rau-09-35	BLANK	BATCH 27	H884547	<0.01	
Rau-09-35	BLANK	BATCH 27	H884556	<0.01	
Rau-09-40	BLANK	BATCH 28	H884584	<0.01	
Rau-09-42	BLANK	BATCH 28	H884598	<0.01	
Rau-09-42	BLANK	BATCH 29	H884614	<0.01	
Rau-09-41	BLANK	BATCH 29	H884635	0.01	
Rau-09-41	BLANK	BATCH 30	H884662	0.01	
Rau-09-41	BLANK	BATCH 30	H884676	0.01	
Rau-09-41	BLANK	BATCH 31	H884688	<0.01	
Rau-09-43	BLANK	BATCH 31	H884705	<0.01	
Rau-09-43	BLANK	BATCH 32	H884720	0.01	
Rau-09-44	BLANK	BATCH 32	H884743	<0.01	
Rau-09-44	BLANK	BATCH 33	H884774	<0.01	
Rau-09-44	BLANK	BATCH 33	H884784	0.01	
Rau-09-35	BLANK	BATCH 34	H884799	0.01	
Rau-09-46	BLANK	BATCH 34	H884822	0.05	
Rau-09-46	BLANK	BATCH 35	H884839	0.06	
Rau-09-46	BLANK	BATCH 35	H884843	0.13	
Rau-09-45	BLANK	BATCH 36	H884868	0.01	
Rau-09-45	BLANK	BATCH 36	H884886	<0.01	
Rau-09-46	BLANK	BATCH 37	H884907	<0.01	
Rau-09-46	BLANK	BATCH 37	H884914	0.03	
Rau-09-47	BLANK	BATCH 38	H884939	<0.01	

BLANK SAMPLES

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-47	BLANK	BATCH 38	H884948	<0.01	
Rau-09-47	BLANK	BATCH 39	H885519	0.02	0.01
Rau-09-48	BLANK	BATCH 39	H885534	0.03	0.02
Rau-09-49	BLANK	BATCH 40	H885565	<0.01	
Rau-09-48	BLANK	BATCH 40	H885585	<0.01	
Rau-09-48	BLANK	BATCH 41	H885591	<0.01	
Rau-09-48	BLANK	BATCH 41	H885603	<0.01	
Rau-SC09-01	BLANK	BATCH 42	H885649	<0.01	
Rau-SC09-01	BLANK	BATCH 42	H885660	0.01	
Rau-09-51	BLANK	BATCH 43	H885666	<0.01	
Rau-09-51	BLANK	BATCH 43	H885673	<0.01	
Rau-09-51	BLANK	BATCH 44	H885708	<0.01	
Rau-09-49	BLANK	BATCH 44	H885730	<0.01	
Rau-SC09-01	BLANK	BATCH 45	H885738	<0.01	
Rau-SC09-01	BLANK	BATCH 45	H885759	<0.01	
Rau-09-54	BLANK	BATCH 46	H885792	<0.01	
Rau-09-53	BLANK	BATCH 46	H885802	<0.01	
Rau-09-53	BLANK	BATCH 47	H885818	0.05	
Rau-09-54	BLANK	BATCH 47	H885831	0.01	
Rau-09-54	BLANK	BATCH 48	H885842	<0.01	
Rau-09-54	BLANK	BATCH 48	H885857	<0.01	
Rau-09-53	BLANK	BATCH 49	H885888	0.01	
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Rau-09-54	BLANK	BATCH 50	H885917	0.01	
Rau-09-55	BLANK	BATCH 50	H885942	<0.01	
Rau-09-55	BLANK	BATCH 51	H885957	<0.01	
Rau-09-55	BLANK	BATCH 51	H885975	0.01	
Rau-SC09-03	BLANK	BATCH 52	H885106	<0.01	
Rau-09-52	BLANK	BATCH 52	H885995	<0.01	
Rau-09-56	BLANK	BATCH 53	H885123	0.01	
Rau-09-56	BLANK	BATCH 53	H885132	0.23	
Rau-09-58	BLANK	BATCH 54	H885158	<0.01	
Rau-09-60	BLANK	BATCH 54	H885179	0.01	
Rau-09-59	BLANK	BATCH 55	H885209	0.01	
Rau-09-59	BLANK	BATCH 55	H885219	0.08	
Rau-09-60	BLANK	BATCH 56	H885231	0.02	
Rau-09-59	BLANK	BATCH 56	H885264	0.01	

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
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Rau-09-63	BLANK	BATCH 58	H885333	0.01	
Rau-09-63	BLANK	BATCH 59	H885346	<0.01	
Rau-09-63	BLANK	BATCH 59	H885363	0.01	
Rau-09-61	BLANK	BATCH 60	H885396	<0.01	
Rau-09-64	BLANK	BATCH 60	H885401	<0.01	
Rau-09-65	BLANK	BATCH 61	H885413	0.01	
Rau-09-61	BLANK	BATCH 61	H885443	<0.01	
Rau-09-61	BLANK	BATCH 62	H885449	<0.01	
Rau-09-64	BLANK	BATCH 62	H885478	<0.01	
Rau-09-64	BLANK	BATCH 63	G284159	<0.01	
Rau-09-65	BLANK	BATCH 63	H885497	<0.01	
Rau-09-65	BLANK	BATCH 64	G284173	<0.01	
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Rau-09-64	BLANK	BATCH 65	G284207	<0.01	
Rau-09-64	BLANK	BATCH 65	G284233	<0.01	
Rau-09-65	BLANK	BATCH 66	G284246	<0.01	
Rau-09-65	BLANK	BATCH 66	G284260	<0.01	
Rau-09-61	BLANK	BATCH 67	G284292	<0.01	
Rau-09-61	BLANK	BATCH 67	G284304	<0.01	
Rau-09-66	BLANK	BATCH 68	G284317	0.05	
Rau-09-66	BLANK	BATCH 68	G284332	0.01	
Rau-09-67	BLANK	BATCH 69	G284350	0.01	
Rau-SC09-04	BLANK	BATCH 69	G284366	<0.01	
Rau-09-67	BLANK	BATCH 70	G284388	0.02	
Rau-09-66	BLANK	BATCH 70	G284415	<0.01	
Rau-09-66	BLANK	BATCH 71	G284422	<0.01	
Rau-09-68	BLANK	BATCH 71	G284437	0.02	
Rau-09-66	BLANK	BATCH 72	G284458	<0.01	
Rau-09-66	BLANK	BATCH 72	G284483	<0.01	
Rau-09-69	BLANK	BATCH 73	G285007	<0.01	
Rau-09-69	BLANK	BATCH 73	G285023	<0.01	
Rau-09-70	BLANK	BATCH 74	G285029	<0.01	
Rau-09-70	BLANK	BATCH 74	G285055	<0.01	
Rau-09-70	BLANK	BATCH 75	G285067	<0.01	
Rau-09-71	BLANK	BATCH 75	G285082	<0.01	

BLANK SAMPLES

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-71	BLANK	BATCH 76	G285114	<0.01	
Rau-09-71	BLANK	BATCH 76	G285123	<0.01	0.01
Rau-09-71	BLANK	BATCH 77	G285143	<0.01	

STANDARD 1

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-19	STD-1	BATCH 01	H246807	0.52	
Rau-09-20	STD-1	BATCH 02	H246849	0.50	
Rau-09-22	STD-1	BATCH 04	H246922	0.50	
Rau-08-18	STD-1	BATCH 05	H246954	<0.01	0.51
Rau-09-26	STD-1	BATCH 09	H247124	0.49	
Rau-09-29	STD-1	BATCH 12	H247233	0.51	
Rau-09-28	STD-1	BATCH 13	H247265	0.57	
Rau-09-29	STD-1	BATCH 14	H247275	0.46	
Rau-09-30	STD-1	BATCH 15	H247335	0.49	
Rau-09-33	STD-1	BATCH 17	H247408	0.47	
Rau-09-33	STD-1	BATCH 18	H247445	0.44	
Rau-09-34	STD-1	BATCH 20	H248656	0.52	
Rau-09-36	STD-1	BATCH 21	H248688	0.56	
Rau-09-37	STD-1	BATCH 23	H248758	0.61	
Rau-09-38	STD-1	BATCH 24	H248788	0.53	
Rau-09-40	STD-1	BATCH 25	H884482	0.48	
Rau-09-39	STD-1	BATCH 26	H884516	0.49	
Rau-09-35	STD-1	BATCH 27	H884540	0.44	
Rau-09-42	STD-1	BATCH 29	H884610	0.49	
Rau-09-42	STD-1	BATCH 30	H884670	0.55	
Rau-09-44	STD-1	BATCH 32	H884731	0.52	
Rau-09-44	STD-1	BATCH 33	H884779	0.47	
Rau-09-46	STD-1	BATCH 35	H884828	0.47	
Rau-09-45	STD-1	BATCH 36	H884863	0.50	
Rau-09-46	STD-1	BATCH 37	H884905	0.59	
Rau-09-48	STD-1	BATCH 39	H885535	0.49	0.45

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-50	STD-1	BATCH 41	H885618	0.49	
Rau-09-50	STD-1	BATCH 42	H885640	0.47	
Rau-SC09-01	STD-1	BATCH 42	H885656	0.52	
Rau-SC09-01	STD-1	BATCH 43	H885694	0.51	
Rau-09-49	STD-1	BATCH 44	H885728	0.41	
Rau-09-54	STD-1	BATCH 47	H885825	0.56	
Rau-09-54	STD-1	BATCH 48	H885864	0.51	
Rau-09-54	STD-1	BATCH 49	H885881	0.42	
Rau-09-55	STD-1	BATCH 50	H885935	0.49	
Rau-09-55	STD-1	BATCH 51	H885979	0.49	
Rau-09-56	STD-1	BATCH 52	H885112	0.56	0.51
Rau-09-58	STD-1	BATCH 54	H885166	0.50	
Rau-09-59	STD-1	BATCH 55	H885202	0.55	
Rau-09-59	STD-1	BATCH 56	H885258	0.50	
Rau-09-63	STD-1	BATCH 58	H885330	0.52	
Rau-09-61	STD-1	BATCH 60	H885383	0.50	
Rau-09-61	STD-1	BATCH 62	H885447	0.50	
Rau-09-64	STD-1	BATCH 63	G284154	0.57	
Rau-09-64	STD-1	BATCH 65	G284237	0.47	
Rau-09-61	STD-1	BATCH 67	G284300	0.49	
Rau-09-66	STD-1	BATCH 70	G284411	0.48	
Rau-09-66	STD-1	BATCH 72	G284477	0.47	
Rau-09-69	STD-1	BATCH 73	G285016	0.47	
Rau-09-70	STD-1	BATCH 74	G285058	0.49	
Rau-09-71	STD-1	BATCH 75	G285089	0.56	

STANDARD 2

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-19	STD-2	BATCH 01	H246825	1.38	
Rau-09-21	STD-2	BATCH 03	H246904	1.47	
Rau-09-23	STD-2	BATCH 06	H247004	1.64	
Rau-09-24	STD-2	BATCH 07	H247045	1.51	
Rau-09-25	STD-2	BATCH 08	H247082	1.62	
Rau-09-25	STD-2	BATCH 09	H247106	1.60	
Rau-09-26	STD-2	BATCH 10	H247144	1.48	
Rau-09-27	STD-2	BATCH 11	H247195	1.55	
Rau-09-28	STD-2	BATCH 13	H247247	1.56	
Rau-09-30	STD-2	BATCH 16	H247373	1.67	
Rau-09-31	STD-2	BATCH 17	H247390	1.50	
Rau-09-34	STD-2	BATCH 19	H248624	1.50	
Rau-09-36	STD-2	BATCH 21	H248675	1.39	
Rau-09-36	STD-2	BATCH 22	H248735	1.49	
Rau-09-38	STD-2	BATCH 24	H884452	1.46	
Rau-09-38	STD-2	BATCH 25	H884467	1.49	
Rau-09-39	STD-2	BATCH 26	H884522	1.45	
Rau-09-40	STD-2	BATCH 28	H884575	1.56	
Rau-09-41	STD-2	BATCH 31	H884683	1.41	
Rau-09-44	STD-2	BATCH 32	H884742	1.53	
Rau-09-35	STD-2	BATCH 34	H884794	1.58	
Rau-09-45	STD-2	BATCH 36	H884890	1.60	
Rau-09-47	STD-2	BATCH 38	H884935	1.46	
Rau-09-47	STD-2	BATCH 38	H885508	1.50	
Rau-09-47	STD-2	BATCH 39	H885524	0.98	1.42
Rau-09-48	STD-2	BATCH 41	H885597	1.50	

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-51	STD-2	BATCH 44	H885711	1.51	
Rau-SC09-01	STD-2	BATCH 45	H885744	1.53	
Rau-09-54	STD-2	BATCH 45	H885768	1.30	
Rau-09-53	STD-2	BATCH 46	H885780	1.74	1.56
Rau-09-54	STD-2	BATCH 46	H885798	1.6	1.55
Rau-09-54	STD-2	BATCH 50	H885926	1.42	
Rau-SC09-03	STD-2	BATCH 52	H886000	1.97	1.60
Rau-09-56	STD-2	BATCH 53	H885129	1.72	
Rau-09-60	STD-2	BATCH 56	H885238	1.40	
Rau-09-59	STD-2	BATCH 56	H885249	1.56	
Rau-09-60	STD-2	BATCH 57	H885291	1.62	
Rau-09-62	STD-2	BATCH 58	H885323	1.54	
Rau-09-65	STD-2	BATCH 61	H885435	1.53	
Rau-09-64	STD-2	BATCH 62	H885469	1.70	
Rau-09-65	STD-2	BATCH 63	H885488	1.63	
Rau-09-65	STD-2	BATCH 64	G284177	1.54	
Rau-09-65	STD-2	BATCH 66	G284253	1.58	
Rau-09-64	STD-2	BATCH 67	G284279	1.51	
Rau-09-66	STD-2	BATCH 68	G284315	6.08	1.32
Rau-09-67	STD-2	BATCH 69	G284359	1.66	
Rau-09-68	STD-2	BATCH 71	G284449	1.57	
Rau-09-66	STD-2	BATCH 72	G284467	1.54	
Rau-09-69	STD-2	BATCH 73	G285002	1.57	
Rau-09-70	STD-2	BATCH 75	G285075	1.56	
Rau-09-71	STD-2	BATCH 76	G285108	1.49	1.55
Rau-09-71	STD-2	BATCH 77	G285140	1.60	

STANDARD 3

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-20	STD-3	BATCH 02	H246866	5.49	
Rau-09-21	STD-3	BATCH 03	H246884	5.32	
Rau-09-22	STD-3	BATCH 04	H246943	5.62	
Rau-08-18	STD-3	BATCH 05	H246964	5.71	
Rau-09-23	STD-3	BATCH 06	H247014	5.63	
Rau-09-24	STD-3	BATCH 07	H247025	5.32	
Rau-09-25	STD-3	BATCH 08	H247072	5.64	
Rau-09-26	STD-3	BATCH 10	H247147	5.79	
Rau-09-27	STD-3	BATCH 11	H247183	5.48	
Rau-09-29	STD-3	BATCH 12	H247224	5.50	
Rau-09-29	STD-3	BATCH 14	H247298	5.65	
Rau-09-30	STD-3	BATCH 15	H247318	5.52	
Rau-09-31	STD-3	BATCH 16	H247360	5.56	
Rau-09-33	STD-3	BATCH 18	H247420	5.50	
Rau-09-33	STD-3	BATCH 19	H248607	5.43	
Rau-09-34	STD-3	BATCH 20	H248650	5.38	
Rau-09-36	STD-3	BATCH 22	H248724	5.53	
Rau-09-37	STD-3	BATCH 23	H248771	5.75	
Rau-09-35	STD-3	BATCH 27	H884564	5.52	
Rau-09-42	STD-3	BATCH 28	H884595	5.61	
Rau-09-41	STD-3	BATCH 29	H884639	NSS	
Rau-09-41	STD-3	BATCH 30	H884656	5.19	
Rau-09-43	STD-3	BATCH 31	H884714	5.04	
Rau-09-44	STD-3	BATCH 33	H884761	5.56	
Rau-09-46	STD-3	BATCH 34	H884813	5.40	
Rau-09-45	STD-3	BATCH 35	H884856	5.55	
Rau-09-46	STD-3	BATCH 37	H884923	5.42	

Hole ID	Type	Batch	Sample	Au - Original	Au - Rerun
Rau-09-49	STD-3	BATCH 40	H885553	5.55	
Rau-09-49	STD-3	BATCH 40	H885581	5.44	
Rau-09-51	STD-3	BATCH 43	H885671	5.76	
Rau-09-51	STD-3	BATCH 45	H885762	5.75	
Rau-09-53	STD-3	BATCH 47	H885814	5.41	
Rau-09-54	STD-3	BATCH 48	H885848	5.36	
Rau-09-53	STD-3	BATCH 49	H885891	5.33	
Rau-09-55	STD-3	BATCH 51	H885966	5.57	
Rau-09-53	STD-3	BATCH 53	H885142	5.71	
Rau-09-58	STD-3	BATCH 54	H885172	5.49	
Rau-09-59	STD-3	BATCH 55	H885222	5.77	
Rau-09-59	STD-3	BATCH 57	H885271	5.48	
Rau-09-63	STD-3	BATCH 59	H885340	5.49	
Rau-09-63	STD-3	BATCH 59	H885368	5.18	
Rau-09-64	STD-3	BATCH 60	H885406	5.77	
Rau-09-64	STD-3	BATCH 61	H885430	5.84	
Rau-09-64	STD-3	BATCH 64	G284200	6.02	
Rau-09-64	STD-3	BATCH 65	G284223	5.35	
Rau-09-65	STD-3	BATCH 66	G284263	4.87	
Rau-SC09-04	STD-3	BATCH 68	G284340	6.05	5.26
Rau-SC09-04	STD-3	BATCH 69	G284378	5.35	
Rau-09-66	STD-3	BATCH 70	G284418	5.55	
Rau-09-68	STD-3	BATCH 71	G284434	5.67	
Rau-09-70	STD-3	BATCH 74	G285037	5.50	
Rau-09-71	STD-3	BATCH 76	G285133	4.68	5.18

RE-RUNS

BATCH 5		
SAMPLE	Au (1)	Au (2)
H246948	0.14	0.14
H246949	0.06	0.06
H246950	0.21	0.21
H246951	0.02	0.02
H246952	0.38	0.38
H246953	0.14	0.14
H246954	<0.01	0.51
H246955	0.13	0.13
H246956	0.19	0.19
H246957	0.23	0.23
H246958	0.32	0.32
H246959	0.36	0.36
H246960	0.09	0.09
H246961	<0.01	<0.01
H246962	<0.01	<0.01
H246963	0.14	0.14
H264964	5.71	5.71
H246965	0.02	0.02
H246966	0.1	0.1
H246967	0.1	0.1
H246968	0.16	0.16
H246969	1.37	1.37
H246970	<0.01	<0.01
H246971	0.01	0.01
H246972	<0.01	<0.01
H246973	0.02	0.02
H246974	0.01	0.01
H246975	<0.01	<0.01
H246976	<0.01	<0.01
H246977	<0.01	<0.01
H246978	0.02	0.02
H246979	0.02	0.02
H246980	0.05	0.05
H246981	<0.01	<0.01
H246982	<0.01	<0.01
H246983	<0.01	<0.01

BATCH 39		
SAMPLE	Au (1)	Au (2)
H885517	2.71	2.4
H885518	1.22	1.1
H885519	0.02	0.01
H885520	1.62	1.51
H885521	3.18	2.96
H885522	11.65	11.25
H885523	4.01	3.82
H885524	0.98	1.42
H885525	3.88	3.89
H885526	0.36	0.31
H885527	0.02	0.02
H885528	0.15	0.15
H885529	0.39	0.43
H885530	6.83	6.55
H885531	4.89	4.69
H885532	18.9	16.8
H885533	1.46	1.54
H885534	0.03	0.02
H885535	0.49	0.45
H885536	1.9	1.26
H885537	3.36	3.3
H885538	0.65	0.6
H885539	0.36	0.42
H885540	0.49	0.45
H885541	0.41	0.39
H885542	0.11	0.12
H885543	0.09	0.11
H885544	0.08	0.09
H885545	0.31	0.28
H885546	0.34	0.34
H885547	0.13	0.14
H885548	0.05	0.08
H885549	0.05	0.06
H885550	<0.01	<0.01
H885551	<0.01	<0.01
H885552	<0.01	<0.01

BATCH 46		
SAMPLE	Au (1)	Au (2)
H885769	<0.01	<0.01
H885770	<0.01	<0.01
H885771	<0.01	<0.01
H885772	<0.01	<0.01
H885773	0.01	0.01
H885774	0.06	0.13
H885775	0.25	3.92
H885776	<0.01	0.01
H885777	0.01	0.01
H885778	0.04	<0.01
H885779	0.01	0.01
H885780	1.74	1.56
H885781	<0.01	<0.01
H885782	0.01	0.01
H885783	0.01	0.01
H885784	<0.01	<0.01
H885785	0.01	0.01
H885786	0.02	0.02
H885787	0.03	0.03
H885788	0.02	0.02
H885789	0.65	0.62
H885790	0.08	0.08
H885791	0.26	0.18
H885792	<0.01	<0.01
H885793	0.11	0.1
H885794	0.35	0.17
H885795	0.34	0.28
H885796	0.03	0.02
H885797	<0.01	0.04
H885798	1.6	1.55
H885799	0.03	0.02
H885800	0.2	0.2
H885801	0.22	0.23
H885802	<0.01	<0.01
H885803	2.39	2.25
H885804	0.94	0.84

BATCH 52		
SAMPLE	Au (1)	Au (2)
H885101	0.01	<0.01
H885102	<0.01	<0.01
H885103	<0.01	<0.01
H885104	<0.01	<0.01
H885105	0.01	<0.01
H885106	<0.01	<0.01
H885107	0.01	<0.01
H885108	0.02	0.02
H885109	0.03	0.01
H885110	0.03	0.02
H885111	0.07	0.07
H885112	0.56	0.51
H885113	0.02	0.02
H885114	0.12	0.13
H885115	1.33	1.47
H885116	5.74	6.64
H885117	8.61	9.69
H885118	2.47	2.27
H885119	4.42	4.66
H885120	32.8	31.9
H885985	0.07	0.04
H885986	0.01	<0.01
H885987	0.04	0.03
H885988	0.01	<0.01
H885989	0.01	<0.01
H885990	<0.01	<0.01
H885991	<0.01	<0.01
H885992	0.01	<0.01
H885993	0.02	0.01
H885994	0.01	<0.01
H885995	<0.01	<0.01
H885996	0.01	<0.01
H885997	<0.01	<0.01
H885998	<0.01	<0.01
H885999	0.01	<0.01
H886000	1.97	1.6

BATCH 68		
SAMPLE	Au (1)	Au (2)
G284311	0.23	0.21
G284312	2.49	2.59
G284313	86.7	91.2
G284314	19.15	19.2
G284315	6.08	1.32
G284316	5.13	9.43
G284317	0.05	0.05
G284318	0.06	0.1
G284319	1.12	1.01
G284320	8.05	8.31
G284321	8.04	8.07
G284322	6.48	6.47
G284323	7.83	6.66
G284324	1.89	3.15
G284325	2.36	2.68
G284326	14.65	14.15
G284327	3.15	3.1
G284328	4.62	4.25
G284329	3.47	2.89
G284330	6.25	5.57
G284331	1.62	1.35
G284332	0.01	0.01
G284333	0.43	0.53
G284334	5.29	5.02
G284335	2.56	2.06
G284336	1.05	1.33
G284337	0.01	0.03
G284338	0.06	0.04
G284339	0.03	0.02
G284340	6.05	5.26
G284341	0.01	<0.01
G284342	<0.01	<0.01
G284343	<0.01	<0.01
G284344	2.21	2.05
G284345	0.44	0.5
G284346	1.37	1.69

BATCH 76		
SAMPLE	Au (1)	Au (2)
G285099	0.03	0.05
G285100	<0.01	0.01
G285101	<0.01	<0.01
G285102	0.01	0.01
G285103	0.16	0.17
G285104	0.3	0.23
G285105	0.56	0.44
G285106	0.87	0.92
G285107	0.02	0.03
G285108	1.49	1.55
G285109	0.1	0.06
G285110	1	0.11
G285111	0.17	0.2
G285112	0.23	0.22
G285113	0.7	0.75
G285114	<0.01	<0.01
G285115	0.31	0.37
G285116	0.31	0.31
G285117	0.31	0.31
G285118	0.32	0.32
G285119	0.33	0.32
G285120	0.2	0.21
G285121	0.03	0.03
G285122	0.04	0.03
G285123	<0.01	0.01
G285124	0.03	0.01
G285125	0.01	0.03
G285126	0.02	<0.01
G285127	0.02	0.01
G285128	0.01	<0.01
G285129	0.02	0.02
G285130	0.03	0.02
G285131	0.08	0.07
G285132	0.01	0.04
G285133	4.68	5.18
G285134	0.02	0.02

DUPLICATE SAMPLES

Hole ID	From	To	Interval	Batch	Sample	Au (original)	Au (duplicate)	Difference
Rau-09-46	8.53	10.06	1.53	BATCH 34	H884816	0.14	0.21	0.07
Rau-09-27	13.11	14.63	1.52	BATCH 11	H247179	0.01	0.01	0.00
Rau-09-44	16.23	19.20	2.97	BATCH 32	H884733	0.01	<0.01	
Rau-09-70	19.81	22.86	3.05	BATCH 74	G285033	1.67	1.93	0.26
Rau-09-66	25.30	26.82	1.52	BATCH 68	G284324	3.15	2.68	(0.47)
Rau-09-62	24.40	27.43	3.03	BATCH 58	H885316	0.39	0.41	0.02
Rau-09-68	25.91	27.47	1.56	BATCH 71	G284441	1.65	1.56	(0.09)
Rau-09-31	26.82	28.35	1.53	BATCH 16	H247355	1.35	1.18	(0.17)
Rau-09-26	25.88	28.90	3.02	BATCH 9	H247119	0.25	0.37	0.12
Rau-SC09-03	28.70	31.27	2.57	BATCH 52	H885101	<0.01	<0.01	
Rau-09-37	29.04	31.69	2.65	BATCH 23	H248750	0.03	0.03	0.00
Rau-09-71	30.48	33.53	3.05	BATCH 75	G285093	0.57	0.42	(0.15)
Rau-09-47	32.00	34.28	2.28	BATCH 38	H884943	0.03	0.02	(0.01)
Rau-09-23	31.39	34.44	3.05	BATCH 6	H246988	0.01	0.01	0.00
Rau-09-58	35.97	38.16	2.19	BATCH 54	H885167	0.02	0.02	0.00
Rau-09-25	35.97	38.17	2.20	BATCH 8	H247066	0.19	0.20	0.01
Rau-09-50	39.01	42.06	3.05	BATCH 42	H885633	0.18	0.10	(0.08)
Rau-09-55	42.06	43.59	1.53	BATCH 51	H885960	0.02	0.03	0.01
Rau-09-51	44.95	47.75	2.80	BATCH 43	H885682	0.13	0.11	(0.02)
Rau-09-21	45.11	48.16	3.05	BATCH 3	H246898	0.12	0.09	(0.03)
Rau-09-59	49.68	52.73	3.05	BATCH 56	H885243	0.22	0.23	0.01
Rau-09-60	50.29	53.34	3.05	BATCH 55	H885224	4.80	1.27	(3.53)
Rau-09-19	51.05	53.95	2.90	BATCH 1	H246809	162.00	84.50	(77.50)
Rau-09-38	53.34	55.60	2.26	BATCH 24	H248789	0.13	0.14	0.01
Rau-09-54	53.84	56.39	2.55	BATCH 46	H885776	0.01	0.01	0.00
Rau-09-36	55.17	57.91	2.74	BATCH 21	H248696	11.15	6.22	(4.93)
Rau-09-63	58.83	60.35	1.52	BATCH 59	H885357	0.14	0.09	(0.05)
Rau-09-27	60.35	63.40	3.05	BATCH 12	H247208	1.40	0.63	(0.77)
Rau-09-31	66.45	67.97	1.52	BATCH 17	H247399	2.02	1.64	(0.38)
Rau-09-43	66.45	69.49	3.04	BATCH 33	H884764	<0.01	<0.01	
Rau-09-41	68.58	71.63	3.05	BATCH 29	H884629	0.03	0.35	0.32
Rau-09-34	75.65	78.64	2.99	BATCH 20	H248648	1.50	0.86	(0.64)
Rau-09-71	80.77	83.82	3.05	BATCH 76	G285118	0.32	0.32	0.00
Rau-09-45	82.91	85.80	2.89	BATCH 35	H884849	0.03	0.07	0.04
Rau-09-48	84.98	87.51	2.53	BATCH 39	H885545	0.28	0.34	0.06
Rau-09-37	85.00	87.78	2.78	BATCH 25	H884474	0.03	0.19	0.16
Rau-09-36	89.92	91.44	1.52	BATCH 22	H248716	2.04	1.59	(0.45)
Rau-09-33	92.20	93.73	1.53	BATCH 18	H247439	1.87	1.69	(0.18)
Rau-09-20	91.07	94.49	3.42	BATCH 2	H246856	0.05	0.04	(0.01)
Rau-09-22	91.74	94.49	2.75	BATCH 4	H246933	0.05	0.05	0.00
Rau-09-59	92.95	95.40	2.45	BATCH 57	H885275	0.27	0.30	0.03
Rau-09-24	94.49	97.25	2.76	BATCH 7	H247038	<0.01	0.01	
Rau-09-66	96.93	99.97	3.04	BATCH 72	G284469	0.09	0.15	0.06
Rau-09-29	106.07	107.59	1.52	BATCH 14	H247284	0.02	0.04	0.02
Rau-09-65	106.07	107.59	1.52	BATCH 64	G284183	0.04	0.04	0.00
Rau-09-26	105.30	107.81	2.51	BATCH 10	H247160	0.04	0.05	0.01
Rau-09-46	106.07	109.12	3.05	BATCH 37	H884916	0.02	0.01	(0.01)
Rau-09-42	107.59	110.47	2.88	BATCH 31	H884696	0.56	0.20	(0.36)
Rau-09-28	110.34	112.01	1.67	BATCH 13	H247270	0.19	0.22	0.03
Rau-09-41	110.79	113.65	2.86	BATCH 30	H884650	0.06	0.08	0.02
Rau-09-35	111.40	114.50	3.10	BATCH 27	H884546	0.05	0.06	0.01
Rau-09-28	114.30	116.13	1.83	BATCH 15	H247311	0.17	0.18	0.01
Rau-09-56	113.69	116.73	3.04	BATCH 53	H885135	0.07	0.04	(0.03)
Rau-09-64	115.93	118.87	2.94	BATCH 61	H885424	<0.01	<0.01	

DUPLICATE SAMPLES

Hole ID	From	To	Interval	Batch	Sample	Au (original)	Au (duplicate)	Difference
Rau-09-39	118.37	121.01	2.64	BATCH 26	H884525	0.16	0.17	0.01
Rau-09-33	118.57	121.62	3.05	BATCH 19	H248609	0.03	0.02	(0.01)
Rau-09-53	128.93	131.62	2.69	BATCH 49	H885906	0.86	0.98	0.12
Rau-09-54	128.93	132.59	3.66	BATCH 47	H885832	0.03	0.02	(0.01)
Rau-09-40	138.07	140.90	2.83	BATCH 28	H884580	0.01	<0.01	
Rau-09-48	154.84	157.89	3.05	BATCH 41	H885611	<0.01	<0.01	
Rau-09-45	166.00	169.00	3.00	BATCH 36	H884884	0.43	0.28	(0.15)
Rau-09-54	173.74	176.70	2.96	BATCH 48	H885851	<0.01	<0.01	
Rau-SC09-04	192.02	193.13	1.11	BATCH 69	G284372	<0.01	<0.01	
Rau-09-64	222.50	225.55	3.05	BATCH 63	G284165	0.07	0.48	0.41
Rau-SC09-04	225.25	227.15	1.90	BATCH 70	G284398	<0.01	<0.01	
Rau-08-18	246.13	249.02	2.89	BATCH 5	H246956	0.19	0.23	0.04
Rau-09-49	254.61	257.56	2.95	BATCH 44	H885724	<0.01	<0.01	
Rau-SC09-04	271.58	272.80	1.22	BATCH 73	G284494	<0.01	<0.01	
Rau-SC09-01	282.70	285.63	2.93	BATCH 45	H885749	<0.01	0.01	
Rau-09-61	301.63	304.00	2.37	BATCH 60	H885392	<0.01	<0.01	
Rau-09-64	341.38	344.42	3.04	BATCH 66	G284267	<0.01	<0.01	
Rau-09-61	355.09	358.14	3.05	BATCH 62	H885456	<0.01	<0.01	
Rau-09-54	359.00	361.94	2.94	BATCH 50	H885928	0.17	0.20	0.03
Rau-09-61	366.12	369.00	2.88	BATCH 65	G284214	<0.01	0.01	
Rau-09-64	381.00	384.05	3.05	BATCH 67	G284283	<0.01	0.01	
Rau-09-49	158.50	160.00	1.50	BATCH 40	H885577	0.01	<0.01	

UMPIRE SAMPLES (COARSE REJECTS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
Rau-09-37	55.78	58.83	3.05	BATCH 23	H248762	0.01	120	E687001	0.22	0.014	140	0.21	20.00
Rau-09-53	89.31	90.83	1.52	BATCH 49	H885886	9.91	1150	E687002	11.15	0.131	1310	1.24	160.00
Rau-09-53	95.40	98.45	3.05	BATCH 49	H885892	0.89	137	E687003	0.93	0.014	140	0.04	3.00
Rau-09-53	64.92	67.05	2.13	BATCH 47	H885811	5.71	1750	E687004	5.75	0.165	1650	0.04	(100.00)
Rau-09-42	67.97	71.02	3.05	BATCH 29	H884621	0.02	510	E687005	0.12	0.049	490	0.10	(20.00)
		Blank						E687006	0.005	<0.005	25	0.01	25.00
Rau-09-35	150.60	153.92	3.32	BATCH 27	H884566	0.10	520	E687007	0.02	0.064	640	(0.08)	120.00
Rau-09-30	174.80	177.09	2.29	BATCH 16	H247372	0.05	16	E687008	0.05	<0.005	25	0.00	9.00
Rau-09-33	57.45	59.22	1.77	BATCH 17	H247414	2.78	107	E687009	3.19	0.016	160	0.41	53.00
		WO3 Standard						E687010	0.04	0.435	4350	0.04	4350.00
Rau-09-46	120.85	123.45	2.60	BATCH 37	H884922	0.02	157.5	E687011	0.02	0.02	200	0.00	42.50
Rau-09-61	334.37	337.41	3.04	BATCH 62	H885446	5.87	157	E687012	5.24	0.022	220	(0.63)	63.00
Rau-09-42	14.30	17.30	3.00	BATCH 28	H884600	2.90	93.8	E687013	3.82	0.013	130	0.92	36.20
Rau-09-38	105.78	107.66	1.88	BATCH 25	H884464	0.08	141	E687014	0.09	0.017	170	0.01	29.00
		Standard R-3						E687015	5.53	0.005	50	5.53	50.00
Rau-09-33	95.71	97.23	1.52	BATCH 18	H247442	0.72	314	E687016	0.94	0.036	360	0.22	46.00
Rau-09-31	46.63	48.76	2.13	BATCH 16	H247368	0.46	89	E687017	0.48	0.008	80	0.02	(9.00)
Rau-09-31	45.11	46.63	1.52	BATCH 16	H247367	0.91	455	E687018	1.02	0.041	410	0.11	(45.00)
Rau-09-31	28.35	29.87	1.52	BATCH 16	H247357	0.55	750	E687019	0.5	0.077	770	(0.05)	20.00
Rau-09-46	123.45	126.25	2.80	BATCH 37	H884924	0.01	560	E687020	0.005	0.068	680	(0.01)	120.00
Rau-09-36	62.79	64.60	1.81	BATCH 21	H248701	0.25	185.5	E687021	0.19	0.022	220	(0.06)	34.50
Rau-09-68	33.53	36.17	2.64	BATCH 71	G284445	2.63	181	E687022	2.77	0.024	240	0.14	59.00
Rau-09-34	81.82	83.21	1.39	BATCH 20	H248654	4.71	95.2	E687023	5.06	0.011	110	0.35	14.80
Rau-09-66	20.73	22.25	1.52	BATCH 68	G284321	8.07	142.5	E687024	6.77	0.015	150	(1.30)	7.50
Rau-09-46	61.87	64.92	3.05	BATCH 37	H884895	11.30	970	E687025	12.04	0.109	1090	0.74	120.00
Rau-09-71	13.72	15.24	1.52	BATCH 75	G285083	2.32	431	E687026	2.3	0.055	550	(0.02)	119.00
Rau-09-69	54.86	57.91	3.05	BATCH 73	G285019	6.09	119	E687027	5.89	0.015	150	(0.20)	31.00
Rau-09-36	95.86	97.34	1.48	BATCH 22	H248721	3.09	110.5	E687028	1.53	0.013	130	(1.56)	19.50
Rau-09-60	43.85	45.25	1.40	BATCH 55	H885194	1.61	90.4	E687029	2.94	0.006	60	1.33	(30.40)
Rau-09-60	96.01	99.06	3.05	BATCH 57	H885290	0.63	90.4	E687030	0.72	0.01	100	0.09	9.60
Rau-09-54	210.20	212.30	2.10	BATCH 48	H885871	0.01	580	E687031	0.005	0.054	540	0.00	(40.00)
Rau-09-71	68.58	69.91	1.33	BATCH 76	G285112	0.22	610	E687032	0.16	0.062	620	(0.06)	10.00
Rau-09-56	89.31	92.35	3.04	BATCH 53	H885124	12.05	163	E687033	11.32	0.017	170	(0.73)	7.00
		Blank						E687034	0.005	<0.005	25	0.01	25.00
Rau-09-60	39.62	42.42	2.80	BATCH 54	H885192	0.53	670	E687035	0.16	0.101	1010	(0.37)	340.00
Rau-09-37	72.54	75.59	3.05	BATCH 23	H248770	0.36	15.3	E687036	0.27	<0.005	25	(0.09)	9.70
Rau-09-45	88.24	90.83	2.59	BATCH 35	H884852	0.73	2.8	E687037	0.78	<0.005	25	0.05	22.20
Rau-09-21	8.53	11.58	3.05	BATCH 2	H246875	0.15	33.7	E687038	0.07	<0.005	25	(0.08)	(8.70)
Rau-09-36	101.35	104.39	3.04	BATCH 22	H248725	0.12	5.8	E687039	0.07	<0.005	25	(0.05)	19.20
Rau-09-46	13.11	14.63	1.52	BATCH 34	H884819	0.29	34.9	E687040	0.32	0.005	50	0.03	15.10
Rau-09-41	178.31	179.83	1.52	BATCH 31	H884692	0.08	48.2	E687041	0.08	0.006	60	0.00	11.80

* laboratory result shown in red indicates below detection limit

UMPIRE SAMPLES (COARSE REJECTS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
Rau-09-20	82.30	85.34	3.04	BATCH 2	H246853	0.13	6.5	E687042	0.12	<0.005	25	(0.01)	18.50
Rau-09-43	41.70	43.59	1.89	BATCH 32	H884717	0.11	18.2	E687043	0.12	<0.005	25	0.01	6.80
		WO3 Standard						E687044	0.04	0.423	4230	0.04	4230.00
Rau-09-34	87.78	90.83	3.05	BATCH 20	H248659	0.15	32.6	E687045	0.15	0.006	60	0.00	27.40
Rau-09-36	43.74	46.03	2.29	BATCH 21	H248687	0.22	8	E687046	0.15	<0.005	25	(0.07)	17.00
Rau-09-59	52.73	55.78	3.05	BATCH 56	H885245	0.91	37.3	E687047	1.11	<0.005	25	0.20	(12.30)
Rau-09-45	99.06	101.00	1.94	BATCH 35	H884857	2.47	56.7	E687048	2.32	0.008	80	(0.15)	23.30
Rau-09-21	96.93	98.45	1.52	BATCH 4	H246912	0.10	45.6	E687049	0.1	0.006	60	0.00	14.40
Rau-09-68	15.75	18.29	2.54	BATCH 71	G284436	10.00	2.4	E687050	10.85	<0.005	25	0.85	22.60
		Blank						E687051	0.02	<0.005	25	0.02	25.00
Rau-09-25	67.97	69.83	1.86	BATCH 8	H247083	1.56	15.7	E687052	1.26	<0.005	25	(0.30)	9.30
Rau-09-54	52.60	53.84	1.24	BATCH 46	H885775	3.92	0.3	E687053	3.44	<0.005	25	(0.48)	24.70
Rau-09-68	12.50	14.22	1.72	BATCH 71	G284433	7.62	1.3	E687054	7.73	<0.005	25	0.11	23.70
Rau-09-31	19.20	20.73	1.53	BATCH 16	H247351	2.78	48.8	E687055	2.47	0.008	80	(0.31)	31.20
		Blank						E687056	0.005	<0.005	25	0.01	25.00
Rau-09-37	75.59	77.11	1.52	BATCH 23	H248772	3.65	1.2	E687057	1.84	<0.005	25	(1.81)	23.80
Rau-09-64	201.17	204.22	3.05	BATCH 63	G284155	0.17	13.4	E687058	0.16	<0.005	25	(0.01)	11.60
Rau-09-50	16.15	17.68	1.53	BATCH 41	H885620	0.17	6.3	E687059	0.17	<0.005	25	0.00	18.70
Rau-09-67	16.76	19.81	3.05	BATCH 69	G284354	0.96	13.4	E687060	1.13	<0.005	25	0.17	11.60
Rau-09-71	50.05	51.46	1.41	BATCH 76	G285103	0.17	4.8	E687061	0.15	<0.005	25	(0.02)	20.20
Rau-09-47	71.63	72.69	1.06	BATCH 38	H885516	1.04	17.3	E687062	1.01	<0.005	25	(0.03)	7.70
		Standard R-1						E687063	0.48	0.007	70	0.48	70.00
Rau-09-63	23.77	26.82	3.05	BATCH 59	H885339	0.14	78.5	E687064	0.09	0.015	150	(0.05)	71.50
Rau-09-67	25.91	28.96	3.05	BATCH 69	G284357	0.66	28.1	E687065	0.6	0.007	70	(0.06)	41.90
Rau-09-54	356.17	359.00	2.83	BATCH 50	H885927	0.27	9.3	E687066	0.23	<0.005	25	(0.04)	15.70
Rau-09-66	84.73	87.78	3.05	BATCH 72	G284463	3.91	40	E687067	2.36	<0.005	25	(1.55)	(15.00)
Rau-09-45	172.00	175.00	3.00	BATCH 36	H884888	0.20	78.3	E687068	0.27	0.012	120	0.07	41.70
Rau-09-60	11.65	13.72	2.07	BATCH 54	H885178	7.32	85.5	E687069	6.34	0.012	120	(0.98)	34.50
Rau-09-71	118.28	121.29	3.01	BATCH 77	G285136	0.22	28	E687070	0.27	<0.005	25	0.05	(3.00)
Rau-09-44	223.42	226.47	3.05	BATCH 33	H884786	0.05	22.6	E687071	0.06	<0.005	25	0.01	2.40
Rau-09-29	154.10	154.94	0.84	BATCH 15	H247308	0.01	35	E687072	0.005	<0.005	25	(0.01)	(10.00)
Rau-08-18	236.83	238.74	1.91	BATCH 5	H246951	0.02	1.2	E687073	0.02	<0.005	25	0.00	23.80
Rau-09-40	138.07	140.90	2.83	BATCH 28	H884580	0.01	2.4	E687074	0.005	<0.005	25	(0.01)	22.60
Rau-09-55	39.01	40.54	1.53	BATCH 51	H885958	0.03	4.6	E687075	0.15	<0.005	25	0.12	20.40
Rau-09-64	362.71	365.76	3.05	BATCH 67	G284276	0.01	3.1	E687076	0.08	<0.005	25	0.07	21.90
Rau-SC09-01	273.93	276.85	2.92	BATCH 45	H885746	0.01	3.4	E687077	0.4	<0.005	25	0.39	21.60
Rau-09-23	51.39	54.20	2.81	BATCH 6	H246997	0.03	22.1	E687078	0.03	<0.005	25	0.00	2.90
Rau-09-46	74.88	77.12	2.24	BATCH 37	H884900	0.02	2.9	E687079	0.02	<0.005	25	0.00	22.10
Rau-09-38	92.96	95.29	2.33	BATCH 24	H884458	0.02	6.8	E687080	0.03	<0.005	25	0.01	18.20
Rau-09-23	67.97	69.49	1.52	BATCH 6	H247005	48.00	391	E687081	48.07	0.041	410	0.07	19.00
		Blank						E687082	0.02	<0.005	25	0.02	25.00

* laboratory result shown in red indicates below detection limit

UMPIRE SAMPLES (COARSE REJECTS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
		Blank						E687083	0.01	<0.005	25	0.01	25.00
		Standard R-2						E687084	1.43	0.02	200	1.43	200.00
Rau-09-20	97.54	100.58	3.04	BATCH 2	H246859	0.02	2.5	E687085	0.03	<0.005	25	0.01	22.50
Rau-09-46	126.25	129.00	2.75	BATCH 37	H884925	0.02	41.4	E687086	0.02	<0.005	25	0.00	(16.40)
Rau-09-37	67.62	69.49	1.87	BATCH 23	H248768	0.02	4.4	E687087	0.01	<0.005	25	(0.01)	20.60
Rau-09-42	88.62	90.62	2.00	BATCH 30	H884673	0.01	5.3	E687088	0.005	<0.005	25	(0.01)	19.70
Rau-09-45	85.80	88.24	2.44	BATCH 35	H884851	0.07	4.3	E687089	0.05	<0.005	25	(0.02)	20.70
Rau-09-21	99.97	101.50	1.53	BATCH 4	H246914	0.04	58.2	E687090	0.04	<0.005	25	0.00	(33.20)
Rau-09-46	53.75	55.78	2.03	BATCH 35	H884841	33.50	930	E687091	33.41	0.094	940	(0.09)	10.00
Rau-09-48	107.17	109.12	1.95	BATCH 40	H885587	0.05	2.1	E687092	0.005	<0.005	25	(0.05)	22.90
Rau-09-66	106.07	109.12	3.05	BATCH 72	G284473	0.03	3.8	E687093	0.04	<0.005	25	0.01	21.20
Rau-09-64	213.36	215.15	1.79	BATCH 63	G284161	0.02	10.9	E687094	0.03	<0.005	25	0.01	14.10
Rau-09-70	102.11	105.16	3.05	BATCH 75	G285072	0.07	52	E687095	0.06	<0.005	25	(0.01)	(27.00)
Rau-09-54	189.45	191.45	2.00	BATCH 48	H885861	0.01	4	E687096	0.02	<0.005	25	0.01	21.00
Rau-09-35	168.20	170.59	2.39	BATCH 34	H884796	0.03	13.3	E687097	0.03	<0.005	25	0.00	11.70
Rau-09-36	46.03	47.40	1.37	BATCH 21	H248691	26.60	43.4	E687098	29.69	<0.005	25	3.09	(18.40)
Rau-09-55	46.63	48.16	1.53	BATCH 51	H885965	0.05	4.5	E687099	0.03	<0.005	25	(0.02)	20.50
		Standard R-1						E687100	0.47	0.007	70	0.47	70.00
Rau-09-47	37.03	39.00	1.97	BATCH 38	H884946	0.05	1.1	E687101	0.01	<0.005	25	(0.04)	23.90
Rau-09-64	262.13	265.18	3.05	BATCH 65	G284203	0.01	12.7	E687102	0.01	<0.005	25	0.00	12.30
Rau-09-44	237.83	240.28	2.45	BATCH 60	H885386	0.02	4.3	E687103	0.06	<0.005	25	0.04	20.70
Rau-09-44	231.83	234.83	3.00	BATCH 34	H884789	0.03	7.6	E687104	0.03	<0.005	25	0.00	17.40
Rau-09-35	165.20	168.20	3.00	BATCH 34	H884795	0.07	10.7	E687105	0.09	<0.005	25	0.02	14.30
Rau-09-35	79.30	82.00	2.70	BATCH 27	H884537	0.02	1.6	E687106	0.005	<0.005	25	(0.02)	23.40
Rau-09-61	429.77	432.62	2.85	BATCH 67	G284297	0.01	0.2	E687107	0.005	<0.005	25	0.00	24.80
Rau-09-49	162.75	164.59	1.84	BATCH 40	H885580	0.01	0.6	E687108	0.005	<0.005	25	0.00	24.40
Rau-09-23	66.45	67.97	1.52	BATCH 6	H247003	89.20	419	E687109	61.59	0.043	430	(27.61)	11.00
		Blank						E687110	0.005	<0.005	25	0.01	25.00
Rau-09-34	29.87	32.92	3.05	BATCH 19	H248625	0.01	0.8	E687111	0.09	<0.005	25	0.08	24.20
Rau-SC09-01	137.16	140.21	3.05	BATCH 43	H885693	0.01	1	E687112	0.01	<0.005	25	0.01	24.00
Rau-09-43	69.49	72.54	3.05	BATCH 33	H884766	0.01	3.1	E687113	0.02	<0.005	25	0.02	21.90
Rau-09-66	84.73	87.78	3.05	BATCH 72	G284463	3.91	40	E687114	2.29	0.006	60	(1.62)	20.00
Rau-SC09-01	185.93	188.58	2.65	BATCH 44	H885702	0.01	0.4	E687115	0.005	<0.005	25	0.00	24.60
Rau-SC09-04	223.29	225.25	1.96	BATCH 70	G284397	0.01	0.1	E687116	0.005	<0.005	25	0.00	24.90
Rau-SC09-01	179.83	182.51	2.68	BATCH 44	H885700	0.01	0.9	E687117	0.005	<0.005	25	0.00	24.10
		WO3 Standard						E687118	0.04	0.417	4170	0.04	4170.00
Rau-09-24	122.83	125.88	3.05	BATCH 7	H247051	0.01	0.3	E687119	0.005	<0.005	25	0.00	24.70
Rau-09-24	59.48	62.48	3.00	BATCH 7	H247022	0.01	1.6	E687120	0.01	<0.005	25	0.01	23.40
Rau-09-49	133.84	136.73	2.89	BATCH 40	H885564	0.01	3.6	E687121	0.005	<0.005	25	0.00	21.40
Rau-09-56	83.35	83.88	0.53	BATCH 52	H885120	31.90	262	E687122	31.4	0.027	270	(0.50)	8.00
Rau-09-66	13.65	14.63	0.98	BATCH 68	G284314	19.20	150	E687123	9.4	0.016	160	(9.80)	10.00

* laboratory result shown in red indicates below detection limit

UMPIRE SAMPLES (COARSE REJECTS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
		Blank						E687124	0.01	<0.005	25	0.01	25.00
		Standard R-1						E687125	0.5	0.006	60	0.50	60.00
Rau-09-64	286.51	289.56	3.05	BATCH 65	G284220	0.01	11.4	E687126	0.03	<0.005	25	0.03	13.60
Rau-09-22	61.72	64.31	2.59	BATCH 4	H246918	0.01	3.6	E687127	0.01	<0.005	25	0.01	21.40
Rau-09-61	190.11	193.00	2.89	BATCH 60	H885380	0.01	0.8	E687128	0.01	<0.005	25	0.01	24.20
Rau-09-64	283.46	286.51	3.05	BATCH 65	G284212	0.01	22.8	E687129	0.005	<0.005	25	0.00	2.20
Rau-09-64	48.77	50.47	1.70	BATCH 60	H885403	0.01	1.2	E687130	0.005	<0.005	25	0.00	23.80
Rau-09-63	48.16	49.68	1.52	BATCH 59	H885350	21.00	7.8	E687131	28.41	<0.005	25	7.41	17.20
Rau-09-61	371.65	372.83	1.18	BATCH 65	G284217	0.01	0.4	E687132	0.005	<0.005	25	0.00	24.60
Rau-09-48	60.35	61.87	1.52	BATCH 39	H885532	16.80	267	E687133	18.48	0.03	300	1.68	33.00
Rau-09-54	185.32	187.45	2.13	BATCH 48	H885859	0.01	7.2	E687134	0.01	<0.005	25	0.01	17.80
Rau-09-47	34.28	37.03	2.75	BATCH 38	H884945	0.01	2.8	E687135	0.03	<0.005	25	0.03	22.20
Rau-09-54	336.80	338.95	2.15	BATCH 50	H885916	0.01	0.9	E687136	0.005	<0.005	25	(0.01)	24.10
Rau-09-51	95.40	98.20	2.80	BATCH 44	H885719	0.01	1.3	E687137	0.02	<0.005	25	0.01	23.70
Rau-09-64	111.55	113.40	1.85	BATCH 61	H885422	0.01	0.8	E687138	0.01	<0.005	25	0.00	24.20
Rau-09-21	101.50	104.55	3.05	BATCH 4	H246916	0.01	1.3	E687139	0.005	<0.005	25	0.00	23.70
Rau-09-21	88.36	90.83	2.47	BATCH 3	H246909	0.01	0.4	E687140	0.005	<0.005	25	0.00	24.60
Rau-09-66	13.11	13.65	0.54	BATCH 68	G284313	91.20	239	E687141	78.13	0.021	210	(13.07)	(29.00)
Rau-09-49	153.45	154.23	0.78	BATCH 40	H885574	0.01	4.2	E687142	0.01	<0.005	25	0.01	20.80
Rau-09-22	94.49	96.77	2.28	BATCH 4	H246935	0.07	4.6	E687143	0.08	<0.005	25	0.01	20.40
Rau-09-40	45.11	48.16	3.05	BATCH 26	H884501	0.02	26.1	E687144	0.02	<0.005	25	0.00	(1.10)
		Standard R-2						E687145	1.5	0.021	210	1.50	210.00
Rau-09-66	8.53	10.06	1.53	BATCH 67	G284310	15.70	62.8	E687146	15.25	0.008	80	(0.45)	17.20
Rau-09-31	12.67	13.11	0.44	BATCH 16	H247344	17.30	1700	E687147	18.33	0.196	1960	1.03	260.00
		Blank						E687148	0.005	<0.005	25	0.01	25.00
Rau-09-38	95.29	97.65	2.36	BATCH 24	H884459	0.04	30.2	E687149	0.06	<0.005	25	0.02	(5.20)
Rau-09-41	92.96	95.35	2.39	BATCH 29	H884641	41.20	1870	E687150	39.98	0.202	2020	(1.22)	150.00
Rau-09-41	91.44	92.96	1.52	BATCH 29	H884640	22.50	1730	E687151	22.1	0.195	1950	(0.40)	220.00
		Blank						E687152	15.55	<0.005	25	15.55	25.00
Rau-09-41	77.72	80.77	3.05	BATCH 29	H884633	15.05	1140	E687153	36.17	0.126	1260	21.12	120.00
Rau-09-41	89.92	91.44	1.52	BATCH 29	H884638	35.90	1830	E687154	32.68	0.2	2000	(3.22)	170.00
Rau-09-41	86.87	89.92	3.05	BATCH 29	H884637	33.70	1450	E687155	30.06	0.158	1580	(3.64)	130.00
Rau-09-41	83.82	86.87	3.05	BATCH 29	H884636	28.50	1150	E687156	0.52	0.124	1240	(27.98)	90.00
		Standard R-1						E687157	0.48	<0.005	25	0.48	25.00

* laboratory result shown in red indicates below detection limit

UMPIRE SAMPLES (PULPS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
Rau-09-24	85.00	87.80	2.80	BATCH 7	H247033	0.04	650.00	E687158	0.03	0.072	720	(0.01)	70.00
Rau-09-26	77.00	78.26	1.26	BATCH 10	H247146	1.63	176.50	E687159	1.59	0.015	150	(0.04)	(26.50)
Rau-09-70	12.19	13.72	1.53	BATCH 74	G285030	0.62	212.00	E687160	0.68	0.02	200	0.06	(12.00)
Rau-09-45	178.00	180.00	2.00	BATCH 36	H884891	1.42	359.00	E687161	1.41	0.04	400	(0.01)	41.00
Rau-09-56	81.69	83.35	1.66	BATCH 52	H885119	4.66	206.00	E687162	3.94	0.023	230	(0.72)	24.00
Rau-09-66	49.68	51.21	1.53	BATCH 70	G284410	5.95	125.50	E687163	5.98	0.016	160	0.03	34.50
Rau-09-53	77.11	78.64	1.53	BATCH 47	H885819	3.45	200.00	E687164	3.37	0.021	210	(0.08)	10.00
Rau-09-48	60.35	61.87	1.52	BATCH 39	H885532	16.80	267.00	E687165	18.23	0.032	320	1.43	53.00
Rau-09-46	14.63	16.15	1.52	BATCH 34	H884820	3.67	51.00	E687166	3.43	0.006	60	(0.24)	9.00
Rau-09-46	20.73	22.25	1.52	BATCH 35	H884824	2.76	265.00	E687167	2.7	0.027	270	(0.06)	5.00
Standard W ORE BH-1								E687168	0.05	0.427	4270	0.05	4270.00
Rau-09-60	56.39	59.44	3.05	BATCH 55	H885228	2.92	150.50	E687169	2.97	0.019	190	0.05	39.50
Rau-09-46	111.95	114.95	3.00	BATCH 37	H884919	0.50	248.00	E687170	0.62	0.027	270	0.12	22.00
Rau-09-36	57.91	60.59	2.68	BATCH 21	H248698	3.68	142.50	E687171	3.62	0.015	150	(0.06)	7.50
Rau-09-31	51.21	54.25	3.04	BATCH 17	H247391	1.21	343.00	E687172	1.21	0.034	340	0.00	(3.00)
Rau-09-60	7.62	9.14	1.52	BATCH 54	H885175	4.53	25.90	E687173	4.29	<0.005	25	(0.24)	(0.90)
Rau-09-54	183.43	185.32	1.89	BATCH 48	H885858	0.07	156.00	E687174	0.005	0.019	190	(0.07)	34.00
Rau-09-23	84.73	87.78	3.05	BATCH 6	H247012	0.46	630.00	E687175	0.45	0.068	680	(0.01)	50.00
Rau-09-41	89.92	91.44	1.52	BATCH 29	H884638	35.90	1830.00	E687176	36.19	0.202	2020	0.29	190.00
Rau-09-46	123.45	126.25	2.80	BATCH 37	H884924	0.01	560.00	E687177	0.005	0.06	600	(0.01)	40.00
Rau-09-63	49.68	51.76	2.08	BATCH 59	H885351	8.83	360.00	E687178	9.48	0.043	430	0.65	70.00
Rau-09-31	19.20	20.73	1.53	BATCH 16	H247351	2.78	48.80	E687179	2.62	0.006	60	(0.16)	11.20
Rau-09-48	58.83	60.35	1.52	BATCH 39	H885531	4.69	246.00	E687180	4.57	0.025	250	(0.12)	4.00
Rau-09-63	21.79	23.77	1.98	BATCH 59	H885338	0.45	204.00	E687181	0.38	0.019	190	(0.07)	(14.00)
Rau-09-38	124.97	126.03	1.06	BATCH 25	H884470	1.56	125.00	E687182	1.93	0.016	160	0.37	35.00
Standard CDN-GS-3F								E687183	2.77	<0.005	25	2.77	25.00
Rau-09-37	33.49	36.32	2.83	BATCH 23	H248753	0.09	238.00	E687184	0.09	0.026	260	0.00	22.00
Rau-09-31	31.39	32.92	1.53	BATCH 16	H247359	5.09	511.00	E687185	4.72	0.049	490	(0.37)	(21.00)
Rau-09-36	66.75	68.76	2.01	BATCH 21	H248703	9.16	213.00	E687186	12.94	0.023	230	3.78	17.00
Rau-09-26	74.68	77.00	2.32	BATCH 10	H247145	0.48	170.00	E687187	0.38	0.017	170	(0.10)	0.00
Rau-09-65	69.49	72.54	3.05	BATCH 63	H885492	0.01	377.00	E687188	0.01	0.043	430	0.01	53.00
Rau-09-26	69.94	71.63	1.69	BATCH 10	H247142	0.61	4070.00	E687189	0.59	0.456	4560	(0.02)	490.00
Rau-09-70	28.96	31.30	2.34	BATCH 74	G285038	0.41	287.00	E687190	0.33	0.029	290	(0.08)	3.00
Rau-09-31	57.30	58.83	1.53	BATCH 17	H247393	1.32	275.00	E687191	1.11	0.027	270	(0.21)	(5.00)
Rau-09-40	25.30	26.82	1.52	BATCH 25	H884490	0.07	403.00	E687192	0.05	0.045	450	(0.02)	47.00
Rau-09-41	86.87	89.92	3.05	BATCH 29	H884637	33.70	1450.00	E687193	31.18	0.15	1500	(2.52)	50.00
Rau-09-48	110.97	112.97	2.00	BATCH 41	H885589	0.26	9.90	E687194	0.25	<0.005	25	(0.01)	15.10
Rau-09-45	99.06	101.00	1.94	BATCH 35	H884857	2.47	56.70	E687195	2.49	0.006	60	0.02	3.30
Rau-09-63	5.00	7.01	2.01	BATCH 58	H885328	0.72	22.20	E687196	0.66	<0.005	25	(0.06)	2.80
Rau-09-45	102.50	103.73	1.23	BATCH 36	H884859	0.67	80.40	E687197	0.61	0.008	80	(0.06)	(0.40)
Rau-09-55	51.21	52.73	1.52	BATCH 51	H885971	0.11	2.70	E687198	0.06	<0.005	25	(0.05)	22.30
Rau-09-69	42.67	45.72	3.05	BATCH 73	G285014	0.67	118.00	E687199	0.67	0.012	120	0.00	2.00

** laboratory result shown in red indicates below detection limit*

UMPIRE SAMPLES (PULPS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
Rau-09-54	361.94	363.83	1.89	BATCH 50	H885930	0.24	0.70	E687200	0.25	<0.005	25	0.01	24.30
Rau-09-29	89.31	92.35	3.04	BATCH 14	H247276	0.13	7.50	E687201	0.13	<0.005	25	0.00	17.50
		Standard CDN-GS-3F						E687202	2.97	<0.005	25	2.97	25.00
Rau-09-22	145.69	148.59	2.90	BATCH 4	H246941	0.11	3.60	E687203	0.11	<0.005	25	0.00	21.40
Rau-09-41	83.82	86.87	3.05	BATCH 29	H884636	28.50	1150.00	E687204	26.89	0.12	1200	(1.61)	50.00
Rau-09-59	75.59	77.11	1.52	BATCH 56	H885261	0.83	11.70	E687205	0.63	<0.005	25	(0.20)	13.30
Rau-09-26	83.82	86.87	3.05	BATCH 10	H247150	0.11	70.40	E687206	0.09	0.005	50	(0.02)	(20.40)
Rau-09-63	8.53	11.58	3.05	BATCH 58	H885331	2.35	96.00	E687207	2.16	0.009	90	(0.19)	(6.00)
Rau-09-23	60.35	63.40	3.05	BATCH 6	H247001	1.42	118.50	E687208	1.46	0.01	100	0.04	(18.50)
Rau-09-54	359.00	361.94	2.94	BATCH 50	H885928	0.17	3.50	E687209	0.12	<0.005	25	(0.05)	21.50
Rau-09-67	6.10	7.62	1.52	BATCH 69	G284347	0.11	52.10	E687210	0.13	<0.005	25	0.02	(27.10)
Rau-09-48	138.50	141.50	3.00	BATCH 41	H885605	0.09	32.30	E687211	0.08	<0.005	25	(0.01)	(7.30)
Rau-09-63	42.06	43.59	1.53	BATCH 59	H885347	0.56	5.30	E687212	0.36	<0.005	25	(0.20)	19.70
Rau-09-42	25.50	27.50	2.00	BATCH 28	H884604	0.33	93.50	E687213	0.37	0.011	110	0.04	16.50
Rau-09-48	43.59	45.11	1.52	BATCH 39	H885528	0.15	0.70	E687214	0.15	<0.005	25	0.00	24.30
Rau-09-36	29.11	31.60	2.49	BATCH 21	H248680	0.22	7.00	E687215	0.2	<0.005	25	(0.02)	18.00
Rau-09-62	38.10	40.15	2.05	BATCH 58	H885325	0.14	6.60	E687216	0.11	<0.005	25	(0.03)	18.40
Rau-09-66	8.53	10.06	1.53	BATCH 67	G284310	15.70	62.80	E687217	14.01	0.008	80	(1.69)	17.20
Rau-09-59	95.40	98.45	3.05	BATCH 57	H885277	0.10	91.80	E687218	0.07	0.007	70	(0.03)	(21.80)
Rau-09-65	61.51	63.40	1.89	BATCH 63	H885489	0.53	13.60	E687219	0.76	<0.005	25	0.23	11.40
Rau-09-22	156.85	158.55	1.70	BATCH 4	H246947	0.13	9.20	E687220	0.13	<0.005	25	0.00	15.80
Rau-09-46	31.39	34.44	3.05	BATCH 35	H884829	0.10	48.00	E687221	0.11	<0.005	25	0.01	(23.00)
		Standard CDN-GS-1D						E687222	1.04	<0.005	25	1.04	25.00
Rau-09-66	77.81	79.33	1.52	BATCH 72	G284457	0.16	14.00	E687223	0.14	<0.005	25	(0.02)	11.00
Rau-09-53	128.93	131.62	2.69	BATCH 49	H885906	0.86	8.70	E687224	0.79	<0.005	25	(0.07)	16.30
Rau-09-65	109.12	111.05	1.93	BATCH 64	G284186	0.12	6.00	E687225	0.11	<0.005	25	(0.01)	19.00
Rau-09-71	36.58	39.51	2.93	BATCH 75	G285096	0.34	18.40	E687226	0.28	<0.005	25	(0.06)	6.60
Rau-09-31	12.67	13.11	0.44	BATCH 16	H247344	17.30	1700.00	E687227	3.62	0.185	1850	(13.68)	150.00
Rau-09-65	52.73	53.71	0.98	BATCH 63	H885483	0.03	8.90	E687228	0.02	<0.005	25	(0.01)	16.10
Rau-09-53	143.70	146.41	2.71	BATCH 50	H885913	0.04	3.40	E687229	0.05	<0.005	25	0.01	21.60
Rau-09-58	38.16	41.05	2.89	BATCH 54	H885169	0.02	0.60	E687230	0.005	<0.005	25	(0.02)	24.40
Rau-09-36	27.13	29.11	1.98	BATCH 21	H248679	0.06	8.70	E687231	0.06	<0.005	25	0.00	16.30
Rau-09-40	22.38	25.30	2.92	BATCH 25	H884489	0.02	25.70	E687232	0.02	<0.005	25	0.00	(0.70)
Rau-09-56	66.04	68.87	2.83	BATCH 52	H885110	0.02	2.00	E687233	0.03	<0.005	25	0.01	23.00
Rau-09-66	116.74	118.26	1.52	BATCH 72	G284478	0.02	16.60	E687234	0.03	<0.005	25	0.01	8.40
Rau-08-18	291.84	293.89	2.05	BATCH 5	H246979	0.02	11.10	E687235	0.02	<0.005	25	0.00	13.90
Rau-09-29	150.27	151.50	1.23	BATCH 14	H247306	0.02	110.00	E687236	0.03	0.011	110	0.01	0.00
Rau-09-40	119.00	121.10	2.10	BATCH 28	H884571	0.05	5.10	E687237	0.05	<0.005	25	0.00	19.90
Rau-09-54	125.00	128.12	3.12	BATCH 47	H885829	0.02	1.00	E687238	0.005	<0.005	25	(0.02)	24.00
Rau-09-38	57.91	60.92	3.01	BATCH 24	H248793	0.08	4.10	E687239	0.09	<0.005	25	0.01	20.90
Rau-09-64	313.94	316.49	2.55	BATCH 65	G284231	0.03	1.10	E687240	0.03	<0.005	25	0.00	23.90
Rau-09-41	77.72	80.77	3.05	BATCH 29	H884633	15.05	1140.00	E687241	15.04	0.134	1340	(0.01)	200.00

** laboratory result shown in red indicates below detection limit*

UMPIRE SAMPLES (PULPS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
Rau-09-23	66.45	67.97	1.52	BATCH 6	H247003	89.20	419.00	E687242	2.47	0.044	440	(86.73)	21.00
Rau-09-21	17.68	20.73	3.05	BATCH 3	H246878	0.08	4.50	E687243	0.07	<0.005	25	(0.01)	20.50
Rau-09-50	26.82	29.87	3.05	BATCH 42	H885626	0.06	4.30	E687244	0.05	<0.005	25	(0.01)	20.70
Rau-09-64	227.36	230.10	2.74	BATCH 64	G284168	0.02	1.20	E687245	0.005	<0.005	25	(0.02)	23.80
				Standard CDN-GS-1D				E687246	1.12	<0.005	25	1.12	25.00
Rau-09-71	4.39	6.10	1.71	BATCH 75	G285078	0.08	15.70	E687247	0.1	<0.005	25	0.02	9.30
Rau-09-25	31.57	34.44	2.87	BATCH 8	H247065	0.07	3.50	E687248	0.06	<0.005	25	(0.01)	21.50
Rau-09-55	40.54	42.06	1.52	BATCH 51	H885959	0.03	2.90	E687249	0.02	<0.005	25	(0.01)	22.10
Rau-09-61	412.70	415.75	3.05	BATCH 67	G284290	0.02	0.80	E687250	0.02	<0.005	25	0.00	24.20
Rau-09-66	60.35	61.87	1.52	BATCH 71	G284420	0.08	60.20	E687251	0.04	0.008	80	(0.04)	19.80
				Standard CDN-GS-1D				E687252	1.07	<0.005	25	1.07	25.00
Rau-09-20	117.65	118.72	1.07	BATCH 2	H246867	0.08	3.90	E687253	0.09	<0.005	25	0.01	21.10
Rau-09-54	350.41	353.22	2.81	BATCH 50	H885924	0.05	4.00	E687254	0.05	<0.005	25	0.00	21.00
Rau-09-53	116.74	117.90	1.16	BATCH 49	H885901	0.05	39.60	E687255	0.05	<0.005	25	0.00	(14.60)
Rau-09-23	93.88	96.93	3.05	BATCH 6	H247016	0.06	10.50	E687256	0.06	<0.005	25	0.00	14.50
Rau-09-45	71.00	74.00	3.00	BATCH 35	H884845	0.04	1.20	E687257	0.03	<0.005	25	(0.01)	23.80
Rau-SC09-04	12.70	13.97	1.27	BATCH 68	G284338	0.04	5.50	E687258	0.04	<0.005	25	0.00	19.50
Rau-09-48	92.35	95.40	3.05	BATCH 39	H885549	0.06	3.50	E687259	0.07	<0.005	25	0.01	21.50
Rau-09-36	46.03	47.40	1.37	BATCH 21	H248691	26.60	43.40	E687260	28.29	0.005	50	1.69	6.60
Rau-09-23	67.97	69.49	1.52	BATCH 6	H247005	48.00	391.00	E687261	38.61	0.039	390	(9.39)	(1.00)
Rau-09-46	53.75	55.78	2.03	BATCH 35	H884841	33.50	930.00	E687262	33.39	0.099	990	(0.11)	60.00
Rau-09-52	355.63	356.62	0.99	BATCH 52	H885992	0.01	35.60	E687263	0.005	<0.005	25	0.00	(10.60)
Rau-09-36	118.87	121.37	2.50	BATCH 22	H248726	0.01	4.30	E687264	0.005	<0.005	25	0.00	20.70
Rau-09-48	141.50	144.50	3.00	BATCH 41	H885606	0.01	10.30	E687265	0.005	<0.005	25	0.00	14.70
Rau-09-64	159.45	161.95	2.50	BATCH 62	H885467	0.01	4.20	E687266	0.005	<0.005	25	(0.01)	20.80
Rau-09-21	93.88	96.93	3.05	BATCH 3	H246911	0.07	24.40	E687267	0.06	<0.005	25	(0.01)	0.60
				Standard CDN-GS-3F				E687268	3.05	<0.005	25	3.05	25.00
Rau-SC09-03	36.32	36.90	0.58	BATCH 52	H885105	0.01	2.20	E687269	0.01	<0.005	25	0.01	22.80
Rau-09-25	143.45	145.69	2.24	BATCH 11	H247173	0.01	0.70	E687270	0.01	<0.005	25	0.00	24.30
Rau-09-23	22.25	25.30	3.05	BATCH 6	H246985	0.01	14.80	E687271	0.01	<0.005	25	0.01	10.20
Rau-09-35	198.00	200.00	2.00	BATCH 34	H884810	0.01	2.70	E687272	0.005	<0.005	25	(0.01)	22.30
Rau-09-61	199.00	200.26	1.26	BATCH 60	H885384	0.01	0.40	E687273	0.005	<0.005	25	0.00	24.60
Rau-09-51	80.16	83.21	3.05	BATCH 44	H885713	0.01	1.70	E687274	0.005	<0.005	25	0.00	23.30
Rau-09-27	32.92	35.96	3.04	BATCH 11	H247192	15.25	280.00	E687275	15.08	0.03	300	(0.17)	20.00
Rau-09-54	212.30	215.30	3.00	BATCH 48	H885872	0.01	0.80	E687276	0.005	<0.005	25	0.00	24.20
Rau-09-27	7.46	10.06	2.60	BATCH 11	H247177	0.01	10.70	E687277	0.02	<0.005	25	0.02	14.30
Rau-SC09-01	75.74	77.86	2.12	BATCH 42	H885658	0.01	3.60	E687278	0.005	<0.005	25	0.00	21.40
				Standard W ORE BH-1				E687279	0.05	0.415	4150	0.05	4150.00
Rau-09-21	28.35	29.87	1.52	BATCH 3	H246886	0.08	19.60	E687280	0.03	<0.005	25	(0.05)	5.40
Rau-09-25	103.02	106.07	3.05	BATCH 9	H247099	0.01	0.01	E687281	0.005	<0.005	25	(0.01)	24.99
Rau-09-71	123.44	126.64	3.20	BATCH 77	G285139	0.01	1.90	E687282	0.005	<0.005	25	(0.01)	23.10
Rau-09-54	121.83	125	3.17	BATCH 47	H885828	0.03	7.60	E687283	0.02	<0.005	25	(0.01)	17.40

** laboratory result shown in red indicates below detection limit*

UMPIRE SAMPLES (PULPS)

HOLE_ID	FROM	TO	INTV	BATCH - CMX	SAMPLE - CMX	Au (g/t)	W (ppm)	SAMPLE - ACME	Au (g/t)	W (%)	W (ppm)	Au (ACME-CMX)	W (ACME-CMX)
Rau-08-18	287.59	290.59	3.00	BATCH 5	H246977	0.01	0.80	E687284	0.005	<0.005	25	0.00	24.20
Rau-09-66	79.33	79.67	0.34	BATCH 72	G284459	0.02	0.30	E687285	0.005	<0.005	25	(0.02)	24.70
Rau-SC09-01	185.93	188.58	2.65	BATCH 44	H885702	0.01	0.40	E687286	0.005	<0.005	25	0.00	24.60
Rau-SC09-04	257.56	260.00	2.44	BATCH 72	G284489	0.01	3.70	E687287	0.005	<0.005	25	0.00	21.30
Rau-09-26	14.93	16.76	1.83	BATCH 9	H247113	0.01	2.10	E687288	0.005	<0.005	25	(0.01)	22.90
Rau-09-29	101.00	103.02	2.02	BATCH 14	H247282	0.01	0.70	E687289	0.005	<0.005	25	(0.01)	24.30
Rau-09-63	48.16	49.68	1.52	BATCH 59	H885350	21.00	7.80	E687290	21.68	<0.005	25	0.68	17.20
Rau-09-44	172.30	175.30	3.00	BATCH 33	H884758	0.01	4.10	E687291	0.04	<0.005	25	0.04	20.90
Rau-09-59	7.31	8.53	1.22	BATCH 55	H885198	0.02	1.60	E687292	0.04	<0.005	25	0.02	23.40
Rau-09-24	56.72	59.48	2.76	BATCH 7	H247021	0.01	2.70	E687293	0.02	<0.005	25	0.01	22.30
Rau-09-56	83.35	83.88	0.53	BATCH 52	H885120	31.90	262.00	E687294	33.98	0.027	270	2.08	8.00
Rau-09-46	51.21	53.75	2.54	BATCH 35	H884840	10.25	1320.00	E687295	22.58	0.187	1870	12.33	550.00
Rau-09-66	13.65	14.63	0.98	BATCH 68	G284314	19.20	150.00	E687296	18.93	0.014	140	(0.27)	(10.00)
Rau-09-41	92.96	95.35	2.39	BATCH 29	H884641	41.20	1870.00	E687297	40.25	0.199	1990	(0.95)	120.00

** laboratory result shown in red indicates below detection limit*

Rau

SMEE & ASSOCIATES CONSULTING LTD.
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Certificate of Analysis

RAU Standard 1

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	0.514 g/t	0.058 g/t

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

The participating laboratories were:

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

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

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

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

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

Certified by:

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

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Rau

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Certificate of Analysis

Rau Standard 2

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	1.527 g/t	0.134 g/t

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

The participating laboratories were:

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

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

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Rau

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Certificate of Analysis

RAU Standard 3

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	5.705 g/t	0.498 g/t

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

The participating laboratories were:

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

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

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Certified by:

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CDN Resource Laboratories Ltd.

#2, 20148 - 102nd Avenue, Langley, B.C., Canada, V1M 4B4, Ph: 604-882-8422 Fax: 604-882-8466
(www.cdnlabs.com)

GOLD ORE REFERENCE STANDARD: CDN-GS-1D

Recommended value and the "Between Lab" Two Standard Deviations
Gold concentration: 1.05 ± 0.10 g/t

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph. D., P. Geo.
DATE OF CERTIFICATION: October 25, 2008

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-1D was prepared using ore supplied by Goldcorp (Les Mines Opinaca – Eleonore property). The host rock of the mineralized zones is usually a thinly bedded greywacke. The mineralized zones consist of stockworks of quartz-tourmaline-actinolite-arsenopyrite-pyrrhotite veins and veinlets. The standard was made using a 5/95 blend of ore and blank, granitic material.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 200 mesh screen. The +200 material was discarded. The -200 material was mixed for 5 days in a rotary mixer. Splits were taken and sent to 12 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12
Sample	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS1D-1	1.11	1.04	1.12	1.01	0.955	1.17	1.17	1.08	1.10	1.00	1.08	0.93
GS1D-2	1.12	1.07	1.00	0.99	0.994	1.28	1.14	1.03	1.02	1.06	1.12	1.04
GS1D-3	1.20	0.91	1.12	1.06	0.990	1.10	1.16	1.07	1.07	1.01	1.02	1.03
GS1D-4	1.17	0.99	1.03	1.08	0.999	1.09	1.15	1.00	1.10	1.11	1.02	0.97
GS1D-5	1.08	1.10	1.05	1.06	1.040	1.06	1.19	1.03	1.07	1.07	1.17	1.01
GS1D-6	0.98	1.05	1.06	0.99	1.054	1.06	1.18	1.14	0.99	1.08	1.03	0.96
GS1D-7	1.09	1.08	1.00	0.99	0.953	1.09	1.16	1.13	1.02	1.05	1.15	1.03
GS1D-8	1.02	1.13	1.04	1.07	1.111	1.00	1.17	1.01	0.99	1.05	1.10	0.97
GS1D-9	1.16	0.92	1.10	1.01	1.039	1.06	1.17	1.05	1.23	1.11	1.09	0.96
GS1D-10	1.07	1.01	1.00	1.01	1.078	1.09	1.15	1.09	0.96	1.04	1.08	1.00
Mean	1.10	1.03	1.05	1.03	1.02	1.10	1.16	1.06	1.06	1.06	1.09	0.99
Std. Dev.	0.068	0.073	0.048	0.036	0.052	0.076	0.015	0.048	0.077	0.037	0.052	0.037
%RSD	6.15	7.10	4.52	3.53	5.09	6.94	1.29	4.50	7.34	3.47	4.80	3.75

Assay Procedure: assays were fire assay, AA or ICP finish on 30g samples.

GOLD ORE REFERENCE STANDARD: CDN-GS-1D

APPROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent
SiO2	67.4		Na2O	3.1
Al2O3	13.0		MgO	2.5
Fe2O3	6.4		K2O	1.3
CaO	3.8		TiO2	0.6
MnO	0.1		LOI	1.5
C	0.1		S	0.3

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviation were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver
Assayers Canada Ltd., Vancouver
ALS Chemex Laboratories, North Vancouver
Actlabs, Ancaster, Ontario
ASA Argentina
Genalysis Laboratory Services Pty Ltd., Perth
International Plasma Labs. Ltd., Richmond, B.C.
Labtium Inc., Finland
OMAC Laboratories Ltd., Ireland
Skyline Laboratories Ltd., Arizona, USA
Ultra Trace Pty Ltd., Australia
TSL Laboratories, Saskatoon

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by Duncan Sanderson

Duncan Sanderson, Certified Assayer of B.C.

Geochemist BW Smee

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

CDN Resource Laboratories Ltd.

#2, 20148 - 102nd Avenue, Langley, B.C., Canada, V1M 4B4, Ph: 604-882-8422 Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-GS-3F

Recommended value and the "Between Laboratory" two standard deviations

Gold concentration: 3.10 ± 0.24 g/t

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: October 20, 2009

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-3F was prepared primarily using ore supplied by Agnico Eagle Mines from their Goldex mine in Quebec. The mineralized zones consist of stockworks of pyrite bearing quartz-tourmaline veins. 490 kg of Goldex ore was blended with 116 kg of ore from the Eskay Creek property in B.C. and 200 kg of a blank, granitic material.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 14 commercial laboratories for round robin assaying. Round robin results are displayed below:

		Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14
		Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)
GS-3F-1		3.16	3.21	3.13	3.00	2.96	2.95	3.15	3.25	3.17	3.22	3.56	3.22	3.03	3.00
GS-3F-2		3.33	3.43	3.37	2.94	3.01	3.02	3.19	3.16	2.94	2.93	3.21	3.45	3.11	3.10
GS-3F-3		3.23	3.12	3.38	3.01	3.09	3.02	3.24	3.29	3.10	3.06	3.11	3.32	3.11	3.03
GS-3F-4		3.35	3.15	3.14	2.96	2.81	3.09	3.20	3.38	3.16	3.10	3.39	3.06	2.98	3.00
GS-3F-5		3.39	2.90	3.09	2.95	3.09	2.95	3.12	3.16	3.22	3.03	3.15	3.38	3.07	2.83
GS-3F-6		3.25	3.17	2.99	3.03	2.97	3.02	3.11	3.02	3.10	3.01	3.31	3.30	3.08	3.02
GS-3F-7		3.14	3.09	3.17	3.01	2.89	2.88	3.18	3.13	3.11	3.14	3.28	3.28	3.12	3.10
GS-3F-8		3.18	3.18	3.14	3.00	3.03	3.02	3.14	2.61	3.32	3.22	3.31	3.39	2.99	3.08
GS-3F-9		3.13	3.18	2.98	3.05	2.83	2.95	3.08	2.98	3.23	3.34	3.41	3.23	3.11	3.07
GS-3F-10		3.17	2.97	3.11	2.93	2.92	3.02	3.16	2.98	2.98	3.20	3.46	3.17	3.00	3.08
Mean		3.23	3.14	3.15	2.99	2.96	2.99	3.16	3.10	3.13	3.13	3.32	3.28	3.06	3.03
Std. Dev.		0.094	0.142	0.134	0.040	0.098	0.059	0.047	0.216	0.114	0.123	0.140	0.115	0.056	0.079
% RSD		2.91	4.54	4.26	1.36	3.33	1.97	1.50	6.98	3.65	3.92	4.23	3.51	1.83	2.61

Assay Procedure: all assays were fire assay, ICP or AA finish on 30g samples.

Data from Lab 11 was excluded for failing the t test.

APPROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent
SiO2	61.7		Na2O	3.8
Al2O3	13.4		MgO	3.2
Fe2O3	4.6		K2O	1.4
CaO	4.4		TiO2	0.4
MnO	0.1		LOI	5.2
S	0.9		C	1.0

REFERENCE MATERIAL: CDN-GS-3F

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Participating Laboratories:
(not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Activation Laboratories, Ancaster, Ontario, Canada
Activation Laboratories, Thunder Bay, Ontario, Canada
ALS Chemex, North Vancouver, B.C., Canada
Assayers Canada Ltd., Vancouver, B.C., Canada
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada
Genalysis Lab.Services, Perth, Australia
Inspectorate America, Nevada, USA
Labtium Inc., Finland
Omac Laboratory, Ireland
Skyline Assayers & Laboratories Ltd, Arizona, USA
SGS Toronto, Ontario, Canada
TSL Laboratories Ltd., Saskatoon, SK, Canada
Ultra Trace Pty. Ltd., Perth, Australia

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Certified by Duncan Sanderson

Duncan Sanderson, Certified Assayer of B.C.

Geochemist BW Smee

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

CANADA CENTRE FOR MINERAL AND ENERGY TECHNOLOGY

REFERENCE TUNGSTEN ORE BH-1

CERTIFICATE OF ANALYSIS

Consensus Value		95% Confidence Interval
W	0.422%	±0.008%

DESCRIPTION

BH-1 is a sample of wolframite ore, hand-picked in 1973 from a stockpile at the Burnt Hill deposit near Fredericton, New Brunswick, the deposit being owned by International Paper Company Limited. The major mineralogical components are 73% quartz, 11% biotite, 5% chlorite, 4% muscovite, 2% of each of feldspar and pyrrhotite, 1% beryl and topaz and 0.4% cassiterite, rutile and apatite. The approximate chemical composition is:

	wt %		wt %
Si	38.0	Mg	0.4
Al	3.5	Ti	0.4
Fe(total)	3.2	Mn	0.2
K	1.7	Na	0.1
S	0.8	C(total)	0.1
Ca	0.5	Mo	0.02
W	0.422		

The ore was dry-gound to minus 74 µm, blended, sampled systematically for analysis by X-ray fluorescence and chemical methods to demonstrate homogeneity sufficient for use as a compositional reference material for tungsten, and bottled in 200-g units.

CERTIFICATION

The consensus value for tungsten is the unweighted mean of 224 accepted analytical determinations by 15 laboratories. The summary of results according to analytical method gives:

APPENDIX XI

GEOPHYSICAL REPORT BY CONDOR CONSULTING, INC.

REPORT ON PROCESSING AND ANALYSIS

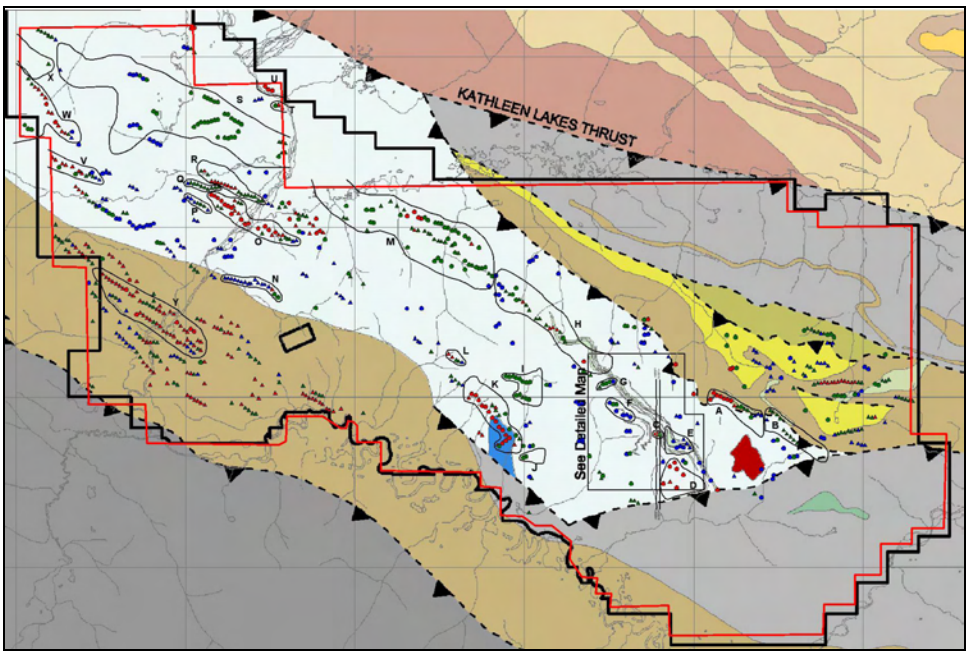
OF VTEM EM & MAGNETIC SURVEY

RAU PROPERTY

YUKON

ARCHER, CATHRO and ASSOCIATES Ltd.

JUNE 2009



Condor Consulting, Inc.
Lakewood Colorado
USA

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1. INTRODUCTION

This report describes the processing and analysis of a VTEM airborne electromagnetic and magnetic survey carried out for Archer, Cathro and Associates Ltd. by Geotech Ltd. in June 2008 over the Rau gold project, Yukon Territory, Canada (Figure 1). A simplified geology map is shown in Figure 2.

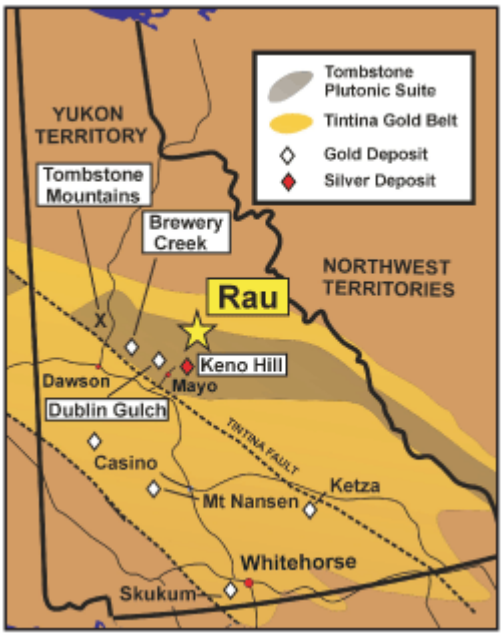


Figure 1: Location of Rau project.

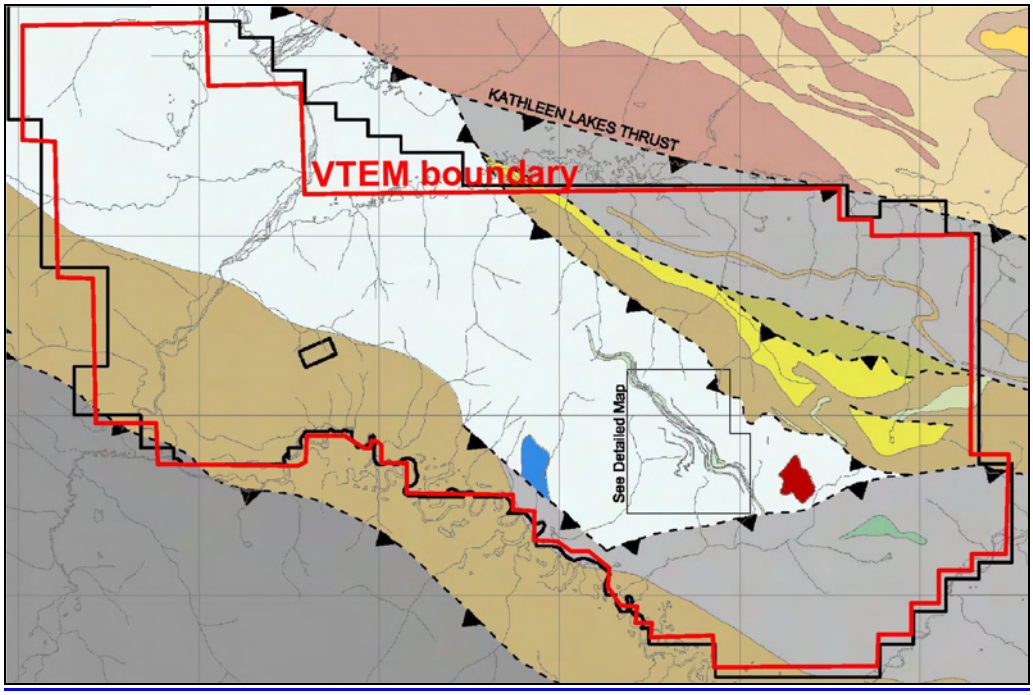


Figure 2: Rau geology.

The following description of the geology and mineralization is extracted from the ATAC Resources website:- http://www.atacresources.com/s/Rau.asp

Geology: The property lies within a band of regional-scale thrust faults, including the Tombstone, Dawson and Robert Service Thrusts, that imbricate rocks of Selwyn Basin and Mackenzie Platform. The thrust panel that contains the Rau property approximately straddles the boundary between Selwyn Basin and Mackenzie Platform and contains units belonging to both tectonic elements. The Rau gold discovery lies within a 22 km long anomalous trend, which has been traced by soil and silt geochemistry and helicopter-borne VTEM and magnetic surveys west-northwesterly from a high-level Late Cretaceous granitic stock. Gold occurs with sulphide minerals that wholly or partially replace dolomitized horizons along the crest of an anticline. The sulphide minerals are locally concentrated beneath a stacked series of sericitized volcaniclastic beds, which may have acted as impermeable caps. To date, three mineralized horizons have been identified. Some mineralization is intensely oxidized.

Mineralization: The uppermost horizon comprises medium to coarse grain, disseminated pyrite often with quartz, pyrrhotite and lesser arsenopyrite. Gold values are generally low in this horizon, but some gold-rich intervals were obtained, including 8.13 g/t gold over 3.05 m. The middle horizon, or discovery horizon, contains most of the significant gold intervals and has the highest concentrations of arsenopyrite, bismuthinite and scheelite. The thickest intersection on this horizon graded 1.71 g/t gold over 78.54 m. The lowermost horizon comprises very coarse grain, massive pyrite with minor sphalerite. Only the final hole of the program extended deep enough to reach this horizon. It ended with 20.77 m of massive pyrite, which averaged 0.13 g/t gold, 24.36 g/t silver and 1.12% zinc. The system remains open along strike and to depth.

The aim of the VTEM survey was to characterize the EM and magnetic signatures of the known gold mineralization and to explore for similar conductors and/or resistors and magnetic features which may host more significant deposits.

The VTEM survey comprised 2 993 line km, with flight lines oriented N-S and nominal spacing of 100 m.

Condor Consulting Inc. (Condor) was commissioned to carry out processing, analysis and interpretation of the EM and magnetic data from the VTEM survey.

This assessment has identified twenty five Target Zones that are deemed worthy of follow-up work.

2. PROCESSING and ANALYSIS TECHNIQUES

PROCESSING

Time Constant: AdTau

The AdTau program calculates the time constant (tau) from time domain decay data. The program is termed ***AdTau*** since rather than using a fixed suite of channels as commonly done, the user sets a noise level and depending on the local characteristics of the data, the program will then select the set of five channels above this noise level. In resistive areas, the earlier channels will tend to be used, whereas in conductive terrains the latest channels available can generally be used. A typical decay fit; in this case, the last five channels are shown to the right in Figure 3.

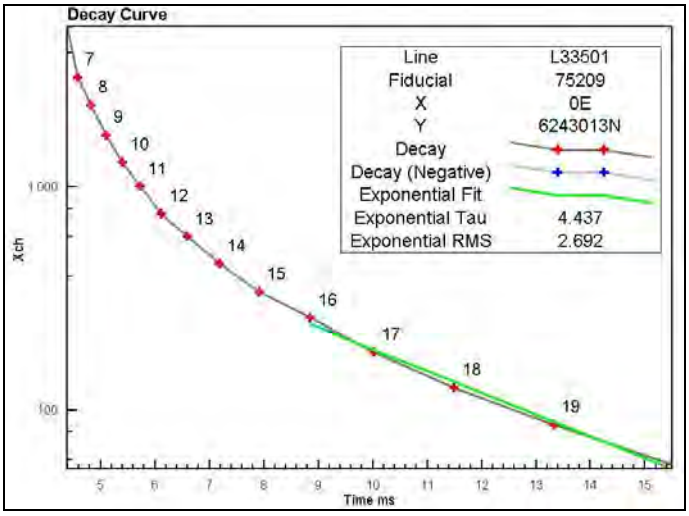


Figure 3: Typical Decay Curve

Layered-Earth Inversion

The layered-earth inversion (LEI) algorithm models the EM data with a 28-layered earth model (Farquharson and Oldenburg, 1993, Ellis 1998), increasing in thickness from the surface to depth in an approximately logarithmic fashion. The first layer was 5 m thick while the deepest was 232 m thick. A starting model of 1 000 ohm-m (0.001 S/m) was used, with a reference model of 5 000 ohm-m (0.0002 S/m). The reference model is what the program defaults to (at depth) when there is no longer enough information to further refine the inversion outcome.

The results of the inversion are presented in the form of a conductivity depth section (CDS), an example of which is shown in Figure 4.

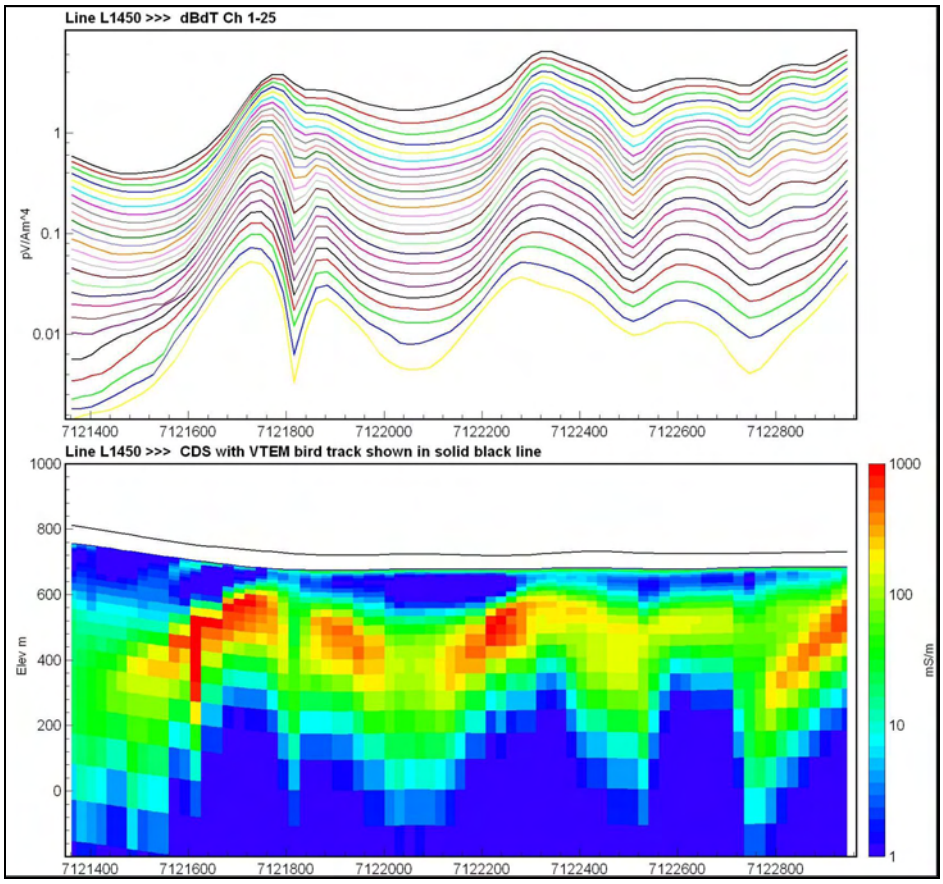


Figure 4: Example profiles and CDS.

Conductors are shown in “warm” colors (red-green) and resistors in “cold” color (blue).

Magnetics

In addition to the normal filters available in the Geosoft application, additional processing was done using the Encom PA[1] software and algorithms described by Shi and Butt (2004) – this paper is included in Appendix D (Archive DVD). A variety of enhancements were produced, but one is deemed to be particularly useful in the present study; termed Tilt Angle. This grid is provided as one of the TargetMaps (see Table 3-1 Products).

[1] Encom PA is a product of Pitney Bowes Business Insight (PBBI).

ANALYSIS TECHNIQUES AND ISSUES

Anomaly Shapes

For discrete plate-like targets, the VTEM system produces two main types of responses; those termed inductively thin or double-peaked responses (DPR) and those termed inductively thick or single-peak responses (SPR). These basic shapes are shown in profile form in Figure 5. Note that, at this time, the VTEM system records only the Z component. No specific economic significance is attached to whether a specific anomaly responds as either one style or another. However, with DPRs, it is possible to better estimate the dip of the conductor.

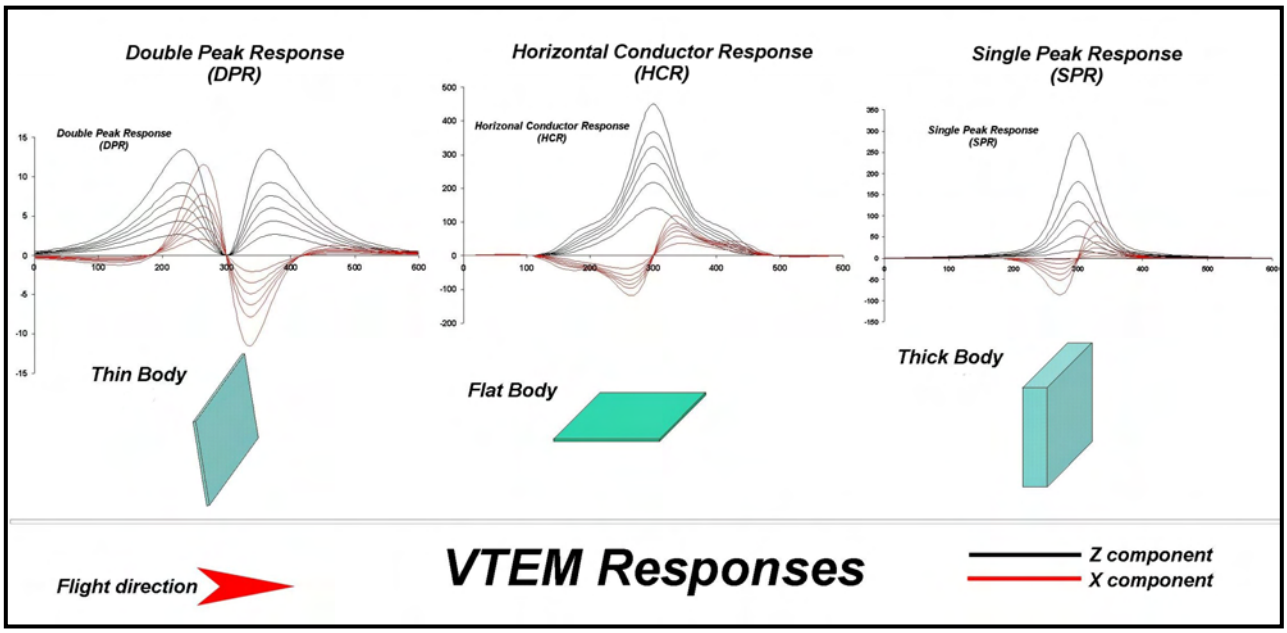


Figure 5: Modeled VTEM Responses.

Only Z component data was acquired in this survey.

Both DPR and SPR responses are common in the Rau VTEM data. In addition large parts of the survey area have broad, shallow, flat-lying conductive zones which appear to be lithologic in origin.

Picking

The MultiPlot™ media was the primary means to examine, identify and then rank the anomalies. This overall process is termed anomaly picking and was on a line-by-line basis, with several passes being required to finalize the process.

Target Zones

Groupings of conductors are termed Target Zones or TZ. A TZ is deemed to be a logical grouping of conductors within a data set and is based on an assessment of the distribution of individual conductor picks, plus the magnetic association and any other available geoscience data. The TZs are then prioritized for follow up work based on their overall geophysical character.

Maxwell Modeling

Maxwell is an EM modeling program developed by EMIT (Electro Magnetic Imaging Technology) of Perth, Australia. Maxwell is designed for the analysis of ground, borehole and airborne survey. A brief description of Maxwell is provided in Appendix A.

Modeling in Maxwell uses either “thin” or “thick” plates. Thin plates are defined as inductively thin and are modelled using a “sheet” consisting of many current filaments aligned within the plane of the sheet. Thick plates are modelled as six thin plates, corresponding to the two sides, the two ends and the top and bottom of the thick plate. Normally the top and bottom sheets are kept horizontal, even when the dip is changed. This simple representation of thick plates speeds up calculations significantly and makes inversions feasible.

The thin and thick plate models are used for DPR and SPR-type responses respectively (see above section). The thick plate model is also useful in situations where the low between the two peaks of a DPR response is not fully developed, implying that the conductor is not inductively thin and some response is arising from the top edge. In this situation the thick plate model is used, but with a comparatively small thickness.

In this Maxwell modelling project, both thin and thick plate models were required to fit the observed data.

Note that Maxwell displays the X, Y and Z coordinates of the center-top of the plate. The latter *may* coincide with the flight lines, but in many cases the plate is not symmetric with respect to the flight lines and so the X and Y coordinates lie off the flight line. This needs to be kept in mind when designing drill holes to intersect the plate.

3. PRODUCTS

Table 3-1 lists the maps and products that are provided. Other products can be prepared from the existing dataset, if required.

Base Maps

All maps are created using the following parameters:

Projection Description:

Datum:	NAD83
Ellipsoid:	GRS 1980
Projection:	UTM (Zone: 8N)
Central Meridian:	135º W
False Northing:	0
False Easting:	500 000
Scale Factor:	0.9996

Table 3-1 Interpretation Products

TargetMaps @ 1:25 000

Each map includes picked anomalies and TZs

- TMI (Total magnetic intensity)
- Tilt Angle of TMI
- AdTau (dBdT, threshold 0.002 pV/Am^4)
- Geology

MultiPlots™ @ 1:20 000 (as PDFs)

A sample MultiPlot™ is shown in Figure 6, annotated to show the various tracks.

Mini-Plates™ (located at the top of each MultiPlots™) – TMI-RTP, Tilt Angle, EM dBdT Z Channel 1 (120 us), AdTau (dBdT, threshold 0.002 pV/Am^4), DTM

On each MultiPlot™ the picked anomalies are indicated along with the following:

- VTEM channels dBdT 120-7 828 us
- VTEM channels BField 120-7 828 us
- Profiles of TMI, 1st Vertical derivative of TMI and Analytic Signal
- Profiles of AdTau dBdT (threshold 0.002 pV/Am^4 - smoothed), AdTau BField (threshold 0.01 pVms/Am^4 - smoothed)
- LEI CDS from dBdT Z + bird height + Maxwell plates (on applicable lines)

- LEI CDS from BField + bird height
- TrackMap: Geology + flight path + conductor picks + TZ + Maxwell plates

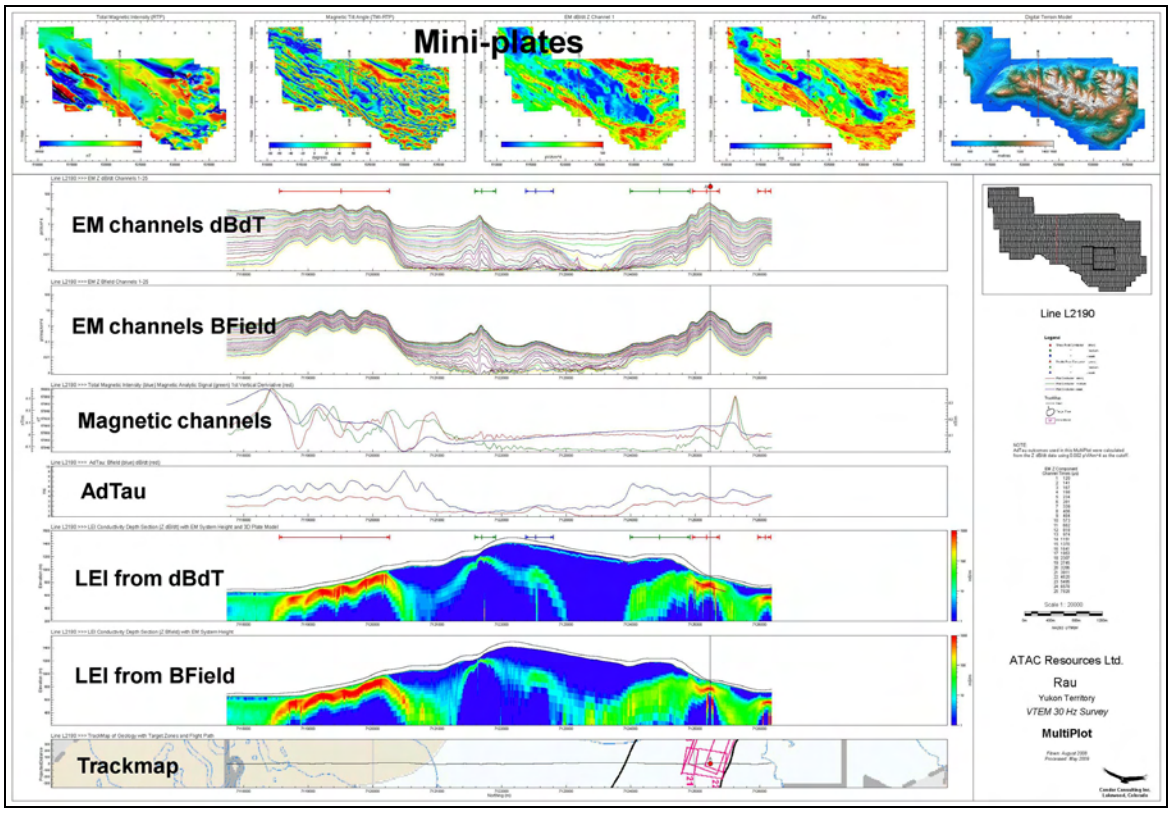


Figure 6: Sample annotated MultiPlot™.

Processing and Analysis Report (PDF)

Archive CD-ROM/DVD contains the following files:

-Databases of primary and derived geophysical data

-Digital grid archives in Geosoft format

-MultiPlots™ - Profile Analyst session files and PDFs

-TargetMaps – Geosoft maps files and PDFs

-ArcView shape files of picked anomalies

-Maxwell plate 3D DXF, shapefiles and spreadsheet listing plate parameters

-UBC MAG3D voxel model in UBC and Geosoft formats

-Processing and analysis report (PDF)

-Geotech Field report

4. EM OUTCOMES

Many conductors were identified within the VTEM survey, consisting of strong-weak DPR and SPR anomalies (interpreted as dipping, relatively thin sulphide or graphitic conductors) and strong-weak flat-lying conductors (interpreted as due to lithologic responses). The locations are shown in Figure 7, superimposed on a geology image. A number of offsets in the conductors on the RDS have been interpreted as faults.

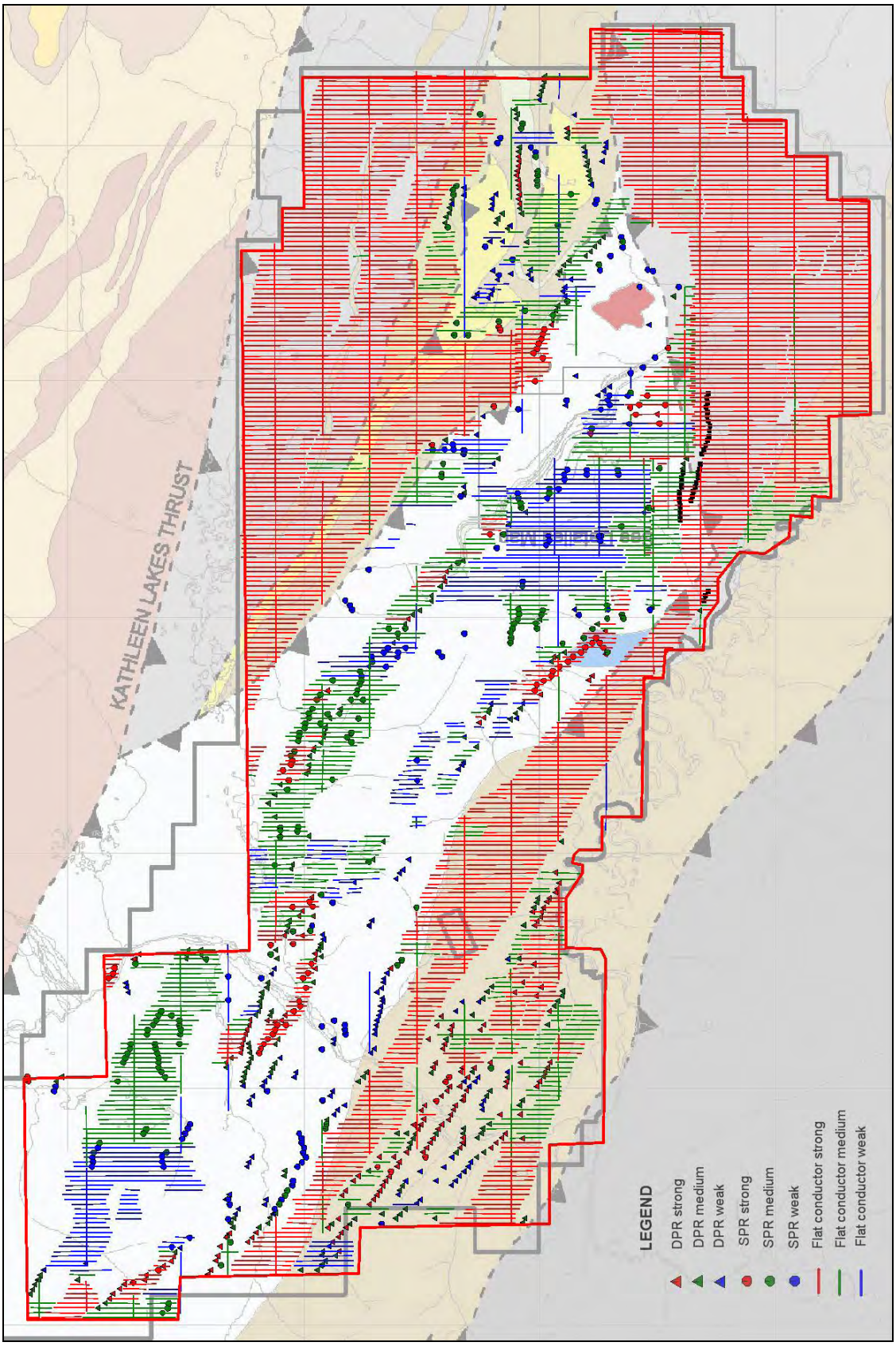


Figure 7: Picked conductors superimposed on geology.

5. TARGET ZONES

The discrete conductors have been grouped into twenty five Target Zones (TZ) labeled A-Y, which are shown in Figure 8. TZs A-X lie within, or at the contact of, mapped Bouvette Fm. TZ Y lies within mapped Keno Hills Quartzite. The TZ have been prioritized 1-3 (1 the highest) based on a subjective judgment as to their prospectivity.

Summary figures and notes on each TZ are included in Appendix B.

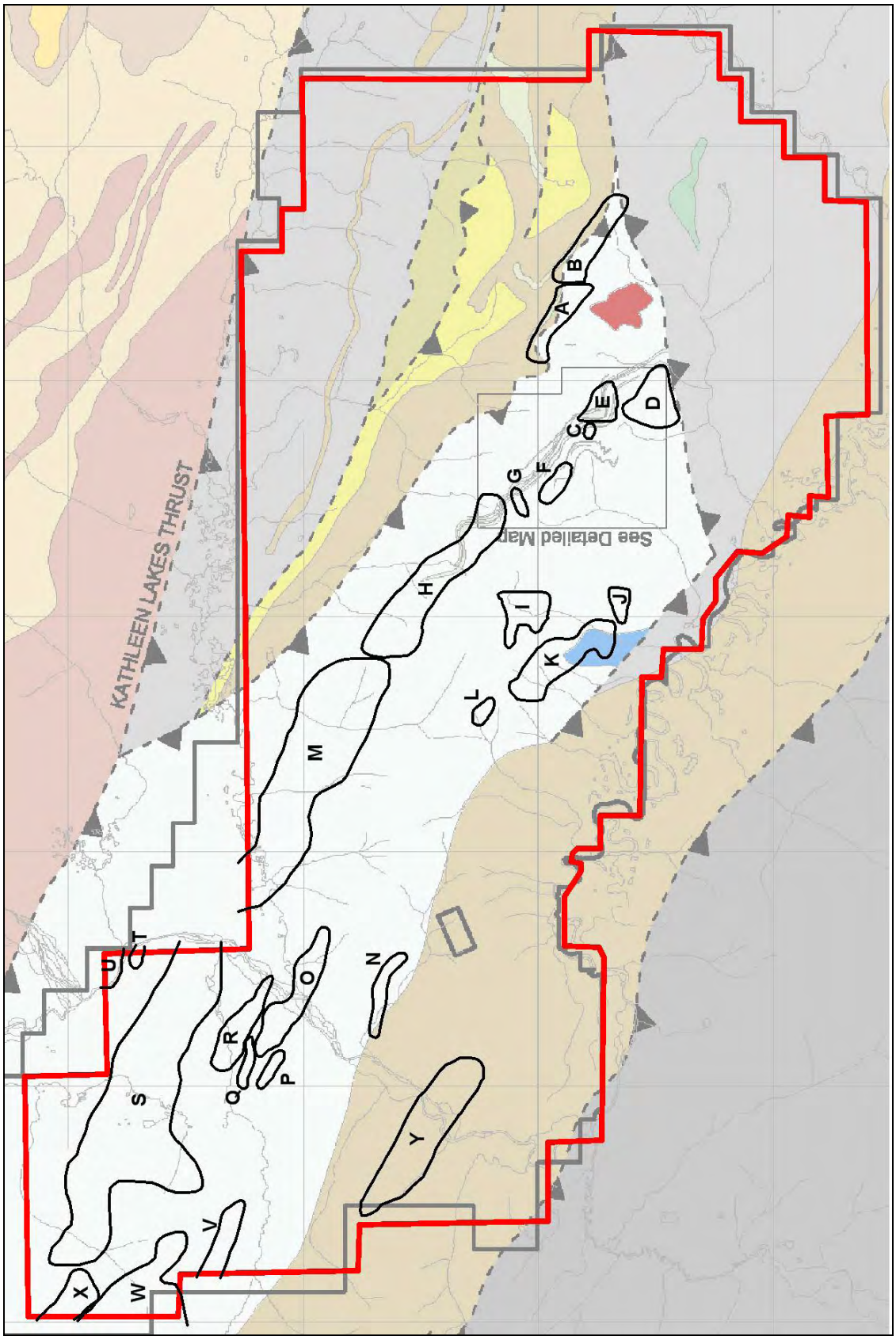


Figure 8: Locations of TZ, superimposed on geology.

6. MAXWELL MODELING

Maxwell plate modeling was run for many of the TZ (as selected by the client). The locations of the resulting plates are shown in Figure 9 and the plate parameters are listed in Table 6-1. Figures summarizing the Maxwell models are included in Appendix C.

Table 6-1– Maxwell modeling summary

TZ	Line	Number of Plates	Plate numbers
C	5310 / 5320	1	1
F	4170	1	2
F	4130	1	3
H	2671	2	4,5
H	2641	1	6
H	2600	2	7,8
H	2570	1	9
H	2490	1	10
H	2450	2	11,12
H	2400	2	13,14
K	2440	2	15,16
K	2400 south	2	17,18
K	2350	2	19,20
M	2190	2	21,22
M	2170	3	23,24,25
O	1800	1	26
O	1740 south	1	27
O, Q and R	1580	4	28,29,30,31
O and R	1620	2	32,33
R	1640	1	34
T	1780	1	35
U	1740	1	36
Y	1480	1	37
Y	1450	1	38
Y	1300	2	39,40
Y	1250	1	41

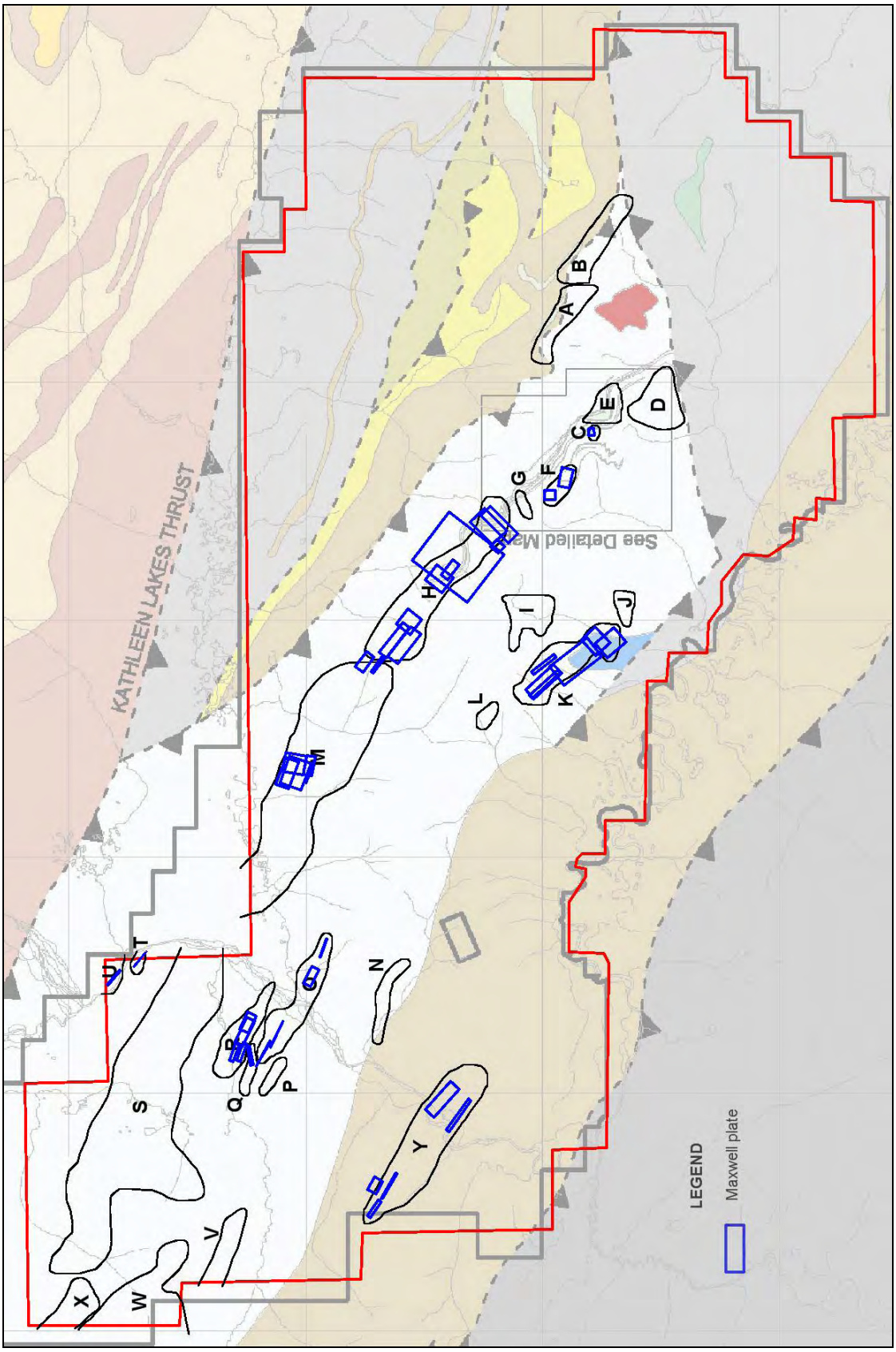


Figure 9: Locations of Maxwell plates.

7. CONCLUSIONS AND RECOMMENDATIONS

This report provides a description of the processing and analysis of a VTEM EM and magnetic survey performed over the Rau property, in the southwest of Yukon Territory, Canada.

Twenty five Target Zones were delineated during the interpretation, consisting of trends of strong-weak discrete conductors. All but one of these is located within mapped Bouvette Fm. One Target Zone is located within mapped Keno Hills Quartzite.

Maxwell modeling has been carried out on the majority of Target Zones and the resulting plates may be used to site drill holes to test these conductors.

Respectfully submitted,

CONDOR CONSULTING, Inc.
June 8, 2009

8. REFERENCES

Ellis, R. G. (1998a): Inversion of airborne electromagnetic data: Exploration Geophysics Vol 29, pp 121-127.

Farquharson, C.G. and Oldenburg, D.W. (1993): Inversion of time domain EM data for a horizontally layered earth, Geophysical Journal International, Vol. 114, pp 433-441.

Orlowski, K., Legault, J. and Fiset, N. (2009): Report on a helicopter-borne versatile time domain electromagnetic (VTEM) geophysical survey, Rau Project, Yukon, Canada for Archer Cathro & Associates Ltd. by Geotech Ltd., Project #8077, January 2009.

Shi, Z. and Butt, G. (2004): New enhancement filters for geological mapping. ASEG 17th Geophysical Conference and Exhibition, Sydney 2004. Extended abstract.

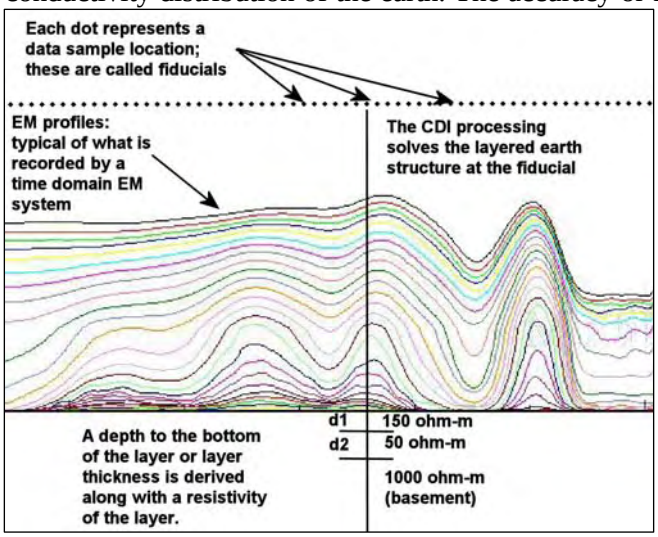
APPENDICES

APPENDIX A: DETAILS OF EM PROCESSING

Conductivity Depth Imaging
Introduction

Condor Consulting, Inc.

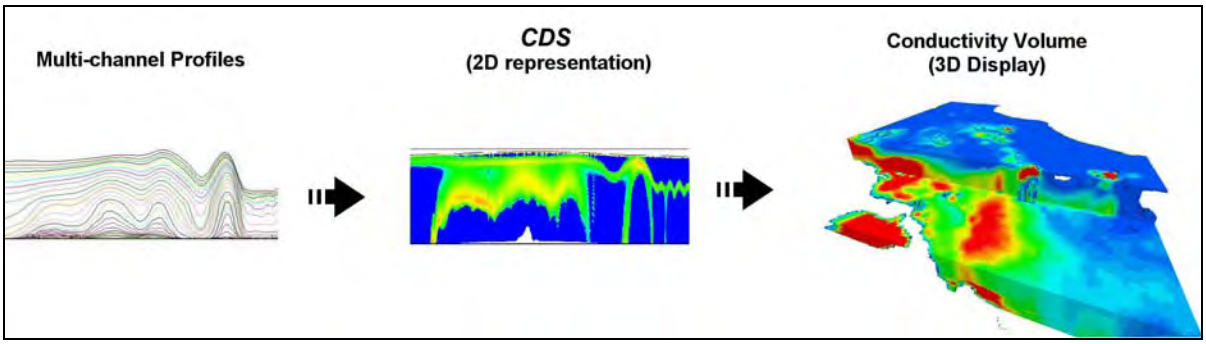
Conductivity Depth Imaging or CDI of airborne EM (AEM) data is the term applied to the mathematical transformation of the EM response recorded in the measuring instrument of the survey aircraft that is the transformed into a conductivity distribution of the earth. The accuracy or resolution of the outcomes of CDI is dependent on a number of factors including the type of EM system employed, the quality of the data the system produces, the terrain covered by the system and methodology of the CDI approach. Basically all CDI approaches in commercial use involve what is termed a 1D approximation of the earth. This means that the mathematical model being fit to the data can only capture changes in conductivity vertically in the earth. Displays of CDI outcomes in 2D (sections along lines) and 3D (gridding between lines) all rely on outcomes that are derived from initial 1D processing.



Imaging vs. Inversion: CDI processing can in turn be broken down into two major approaches in the mathematical process involved in solving the sub-surface conductivity structure; this being what is termed either imaging or inversion methodology. Both approaches are in use by survey contractor and consultants and each technique has advantages and draw backs depending on two primary factors; the EM system which acquired the data and the geological problem. Condor uses both approaches but prefers the inversion approach in most applications.

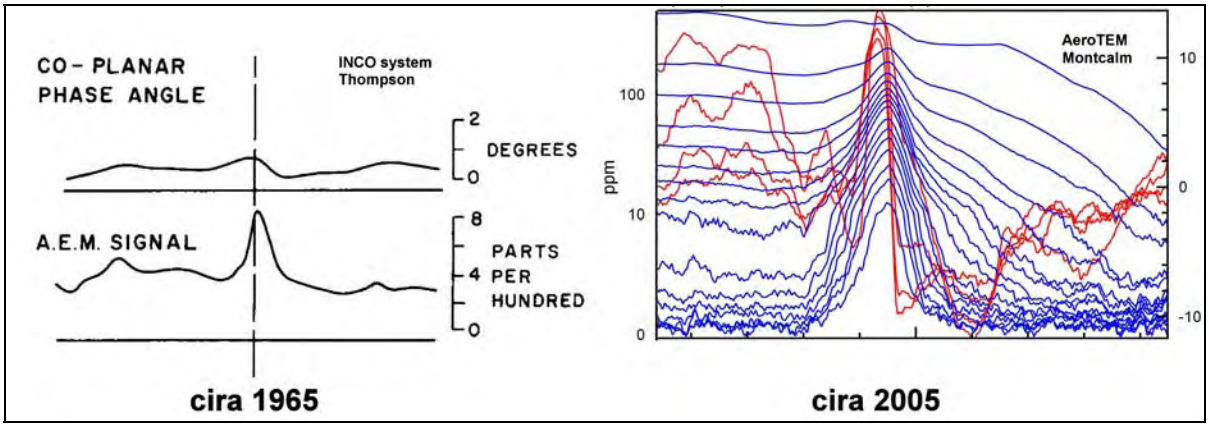
Off-time vs. Bfield: A derived Bfield outcome is now commonly delivered by the major contractors along with the traditional pure off-time data. Condor will routinely process both data streams and then assess which provides the superior outcome for subsequent use specific project assessment. Condor has found this dual processing approach is required as it is very difficult before hand to assess what data stream will provide the best outcome.

In the next several pages, examples of CDI processing will be presented which illustrate the role it can play in modern AEM interpretation. The color section showing a CDI is termed a Conductivity Depth Section or CDS.

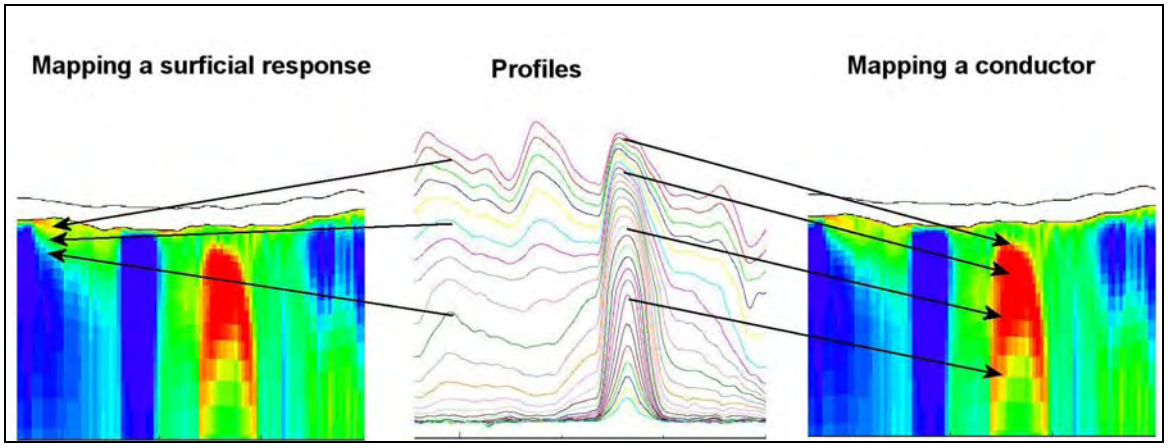


Historically, AEM was used primarily for fairly simple detect of discrete high conductance features which could represent deposits of massive sulfides such as VMS or Ni-Cu. There was little interest in extracting more information other than the X, Y location of the feature and some basic idea of the quality of the conductor. Ground follow-up for location validation and drill hole spotting was always done.

In modern exploration however, there is a far greater range of targets being sought after and in a much wider variety of settings. Even in traditional areas where AEM has been used are now deemed 'mature' explorers are expecting that more sophisticated acquisition and processing techniques will be required to make new discoveries.

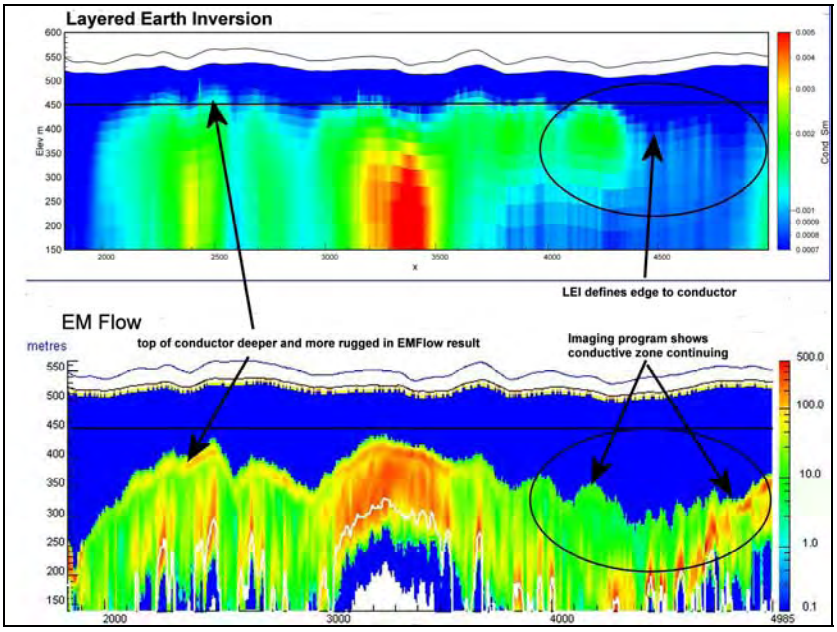


In the CDI process (this applies to either imaging or inversion approaches), those elements of the geology that are dominantly horizontal in nature can be modeled quite well whereas narrow steeply dipping features most often appear with a 'comet-like' shape the depth of which does not necessarily correspond all that well to the actual depth within earth. While this may seem like a major draw back to using these outcomes, a combination of experience, local calibration and access to alternate means to model the data allow the seasoned interpreter to define the subsurface geology quite well. The CDI processing at its best is a very useful means to provide a 3D conductivity "context" of the subsurface which can be extremely valuable in helping to recognize and define zones of interest.



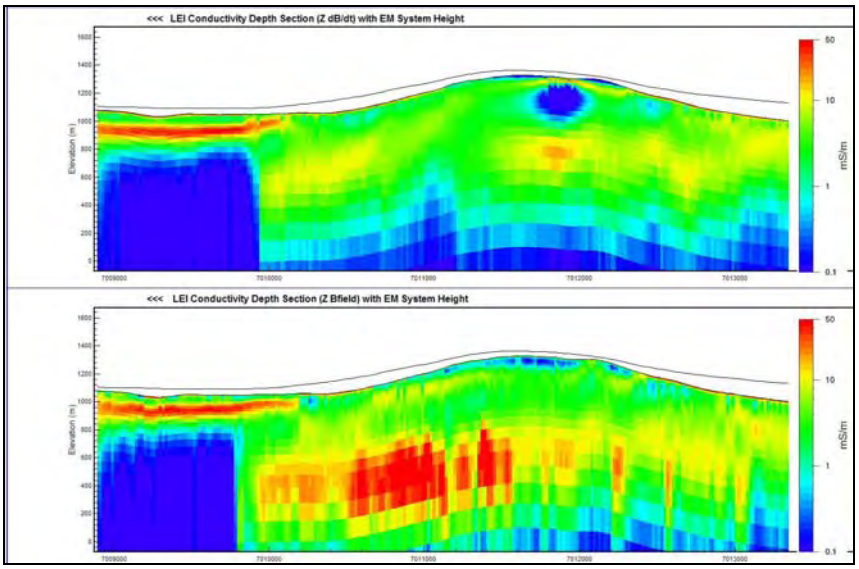
Differences between Imaging and Inversion

The image below shows the outcomes of an inversion program (termed Layered Earth Inversion or LEI) and a imaging program, in this case EMFlow. Three major differences are noted in this example (VTEM survey in the Athabasca Basin); first the depth to the major conductive zone appears deeper in the EMFlow outcome, second the topology of the basement conductor appears to be more rugged in the EMFlow outcome and third, the conductive horizon appears to end in the LEI outcome on the right hand side whereas the EMFlow result shows the zone continuing off the right and side of the image.



Differences between dB/dT and Bfield

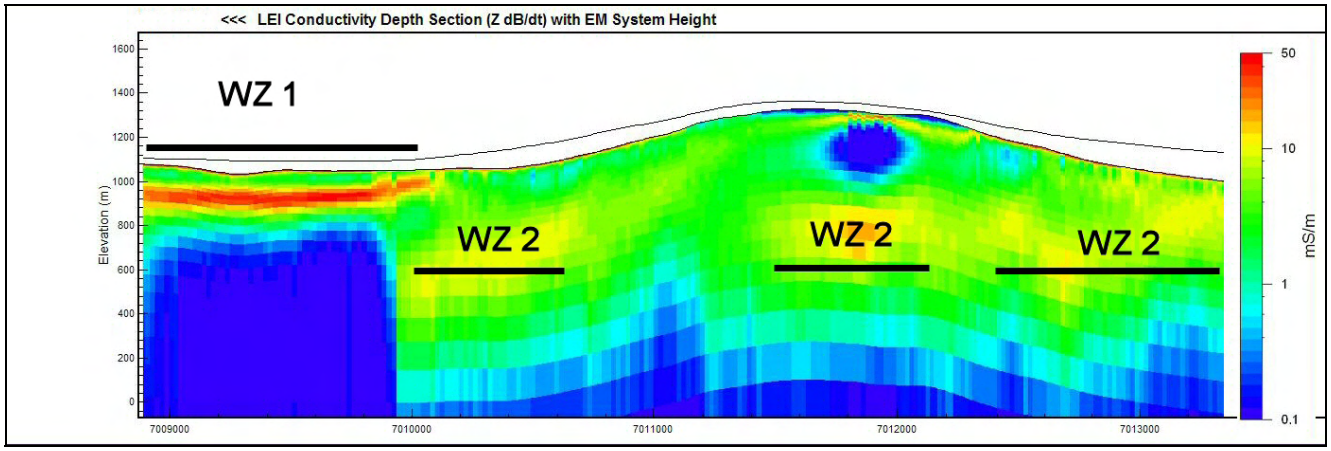
The figure below shows the outcomes of LEI processing to the dB/dT and Bfield outcomes from a VTEM survey undertaken as part of a Ni-Cu search. These results are considered typical in that while the Bfield result shows a nominal greater sensitivity to higher conductance, the results are also somewhat nosier and appear to have slightly less high frequency content than the dB/dT results.

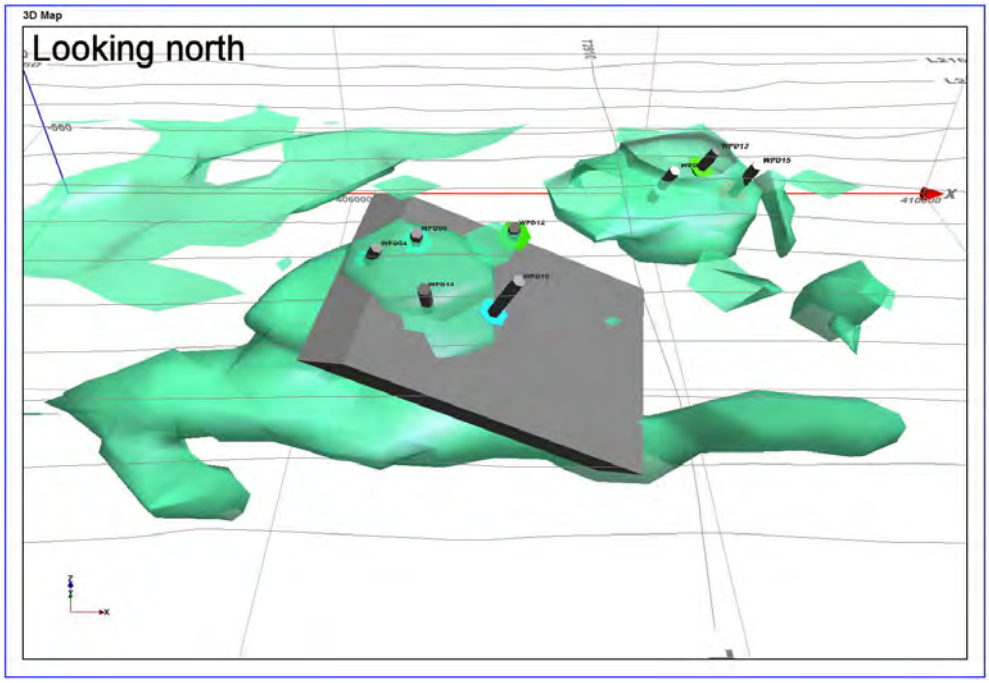


How CDI Helps Interpretation?

A major benefit of having a CDI outcome to interpret is that it coveys a far more geological "feel" to the EM data than profiles along. This is sometimes termed "mapping" with target detection and discrimination a sub-set of this larger interpretive activity.

Using the previous image as an example, the dB/dT CDS has been annotated with what Condor terms Wide Zones. These are zones of broad conductivity in the CDS which are felt to characterize different parts of the geological section. In this case WZ-1 is a thin shallow near surface that could represent lake sediments or a in a weathered terrain, part of a distinctive weather profile over a mafic rock. The WZ-2 features are "in the earth" sources that represent zones of increased conductivity which could represent different rock units or alteration of a specific unit.





Another benefit of the CDI processing is that it in turn allows for the creation of 3D voxel models of the EM outcomes. This is often an excellent means to capture in a holistic sense the sub-surface conductivity distribution either as a stand-alone model or as part of the integrated geoscience model (referred to as a Common Earth Model). An example of such a conductivity model combined with parametric models of specific anomalies (produced using Maxwell) and drill holes is shown in the figure to the left.

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EMIT
ElectroMagnetic Imaging Technology

Maxwell 4.0

Modeling, Presentation and Visualization of EM and Electrical Geophysical Data

- Work with time or frequency domain data – any EM survey with any instrument type
- Ground or airborne, borehole, moving-loop, fixed-loop
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- Linked plan, profile, section, decay and model displays
- Utilities to load EM data into Geosoft database
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- Import and create grid files for display in plan or section
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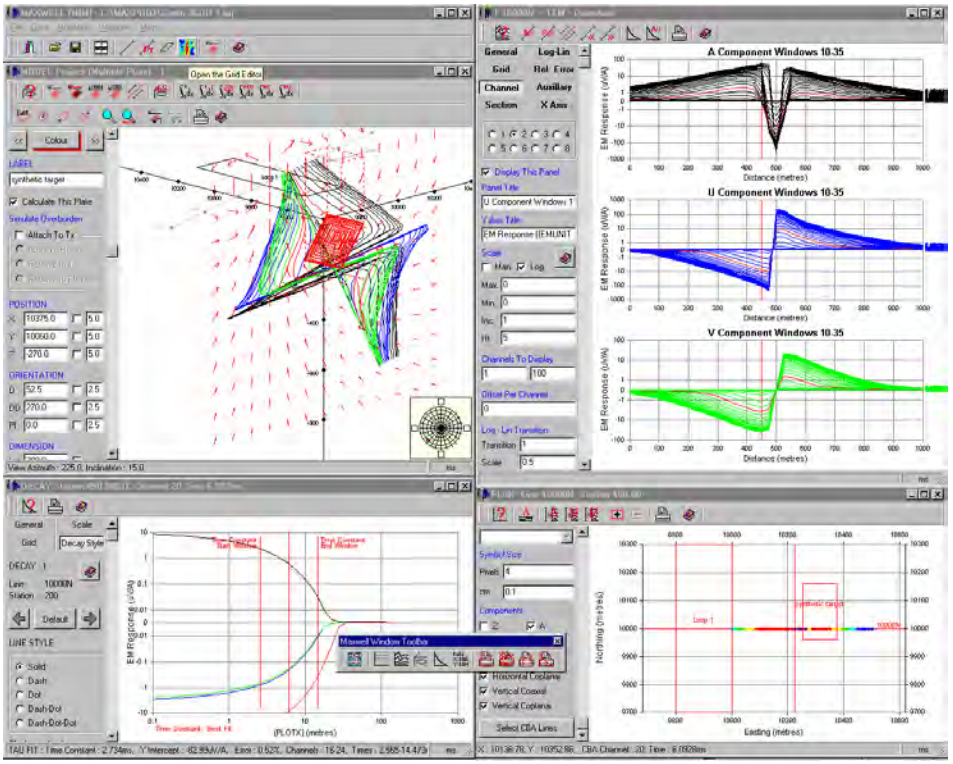


Maxwell has been written by people who understand what's required of EM geophysical processing and modeling software. It is a unique environment that makes EFFICIENT use of your time and effort. Maxwell has grown into the 21st Century with new features and user support that make it a tool that you can't afford not to have if you interact with EM data.

Geophysical Technology Development for Mineral Exploration, Groundwater and the Environment.

GEOSOFT

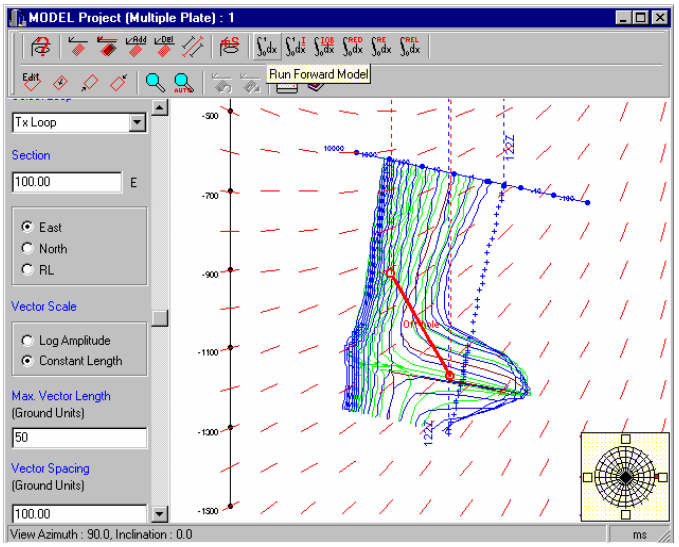
EMIT is a Geosoft Plus Partner and Maxwell provides a powerful interface to Geosoft's Oasis Montaj v5+.

PLAN

View the location of all data, airborne or ground. Define sub-areas for modeling or display. Create effective colored plans of a particular channel, frequency or component to illustrate anomalies and facilitate modeling & quality control. Grid, contour and image data within Maxwell or import a grid file to use as a base for the plan.

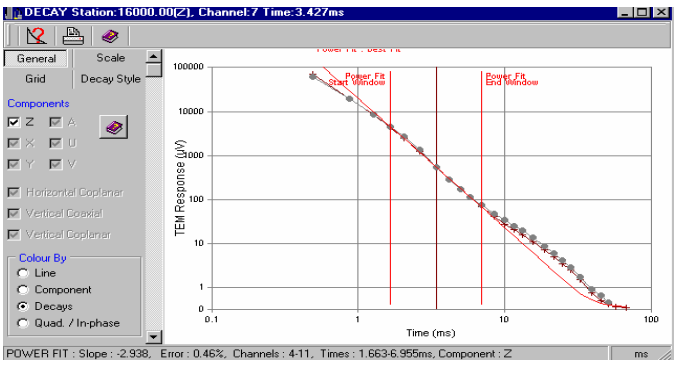
MODEL

Plate and "plate in host" multi-ribbon thin sheet models included, layered earth to be included shortly. Run external modeling algorithms (including plate, prism, 2.5-D and 3-D) with this powerful 3-D graphic interface. Drag-and-drop plate models. Automatically setup variable overburden models, even for moving-loop surveys. Create a synthetic survey simply with any geometry, transmitter waveform, units, window times and frequencies. Select tx-rx horizontal and vertical separation to model airborne responses. Plot primary field lines in any plane. Plot field and model data in the same presentation with user-selection of colors and symbols. Import files of loop coordinates and borehole geometry information.



DECAY/SPECTRUM

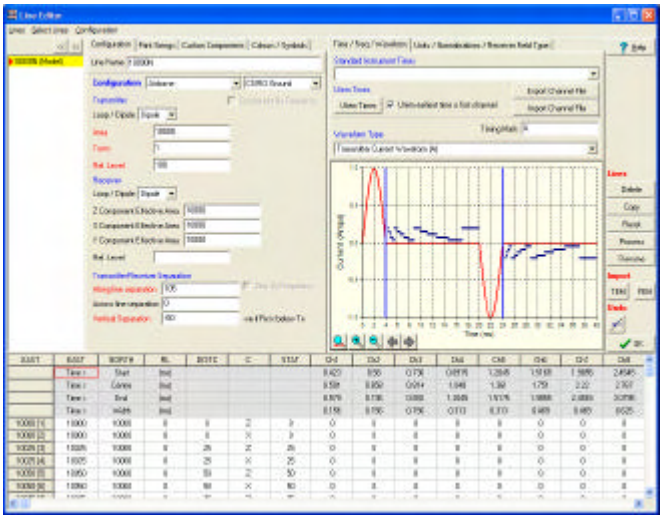
Automatically bring up decays by double-clicking in a profile window. Compare field and model responses. Calculate exponential decay constants and power law decay rates over ranges of times. View EM response versus frequency for frequency domain data.



SERVICE & SUPPORT EMIT is keen to incorporate users' suggestions into its Maxwell software and to respond quickly to questions. Updated software and help files are regularly emailed to Maxwell users.

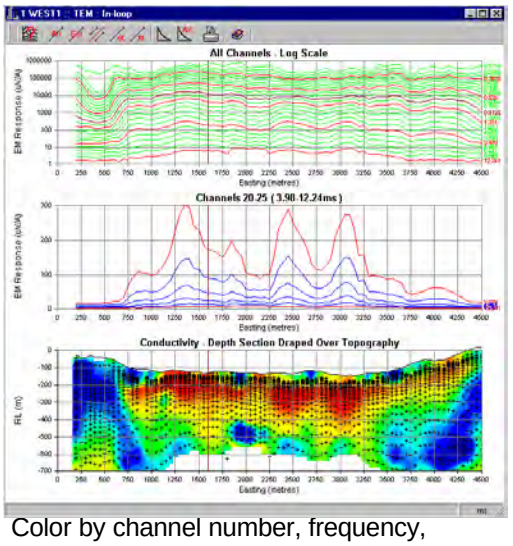
MAXWELL LINE EDITOR

A powerful tool to set parameters of model and field data lines in Maxwell. Set the properties of the EM system so that modeling is straightforward. Check the actual values of the field data and model responses —they can be changed, deleted or sorted. Tool to speed the import of EM system waveforms and window times. Set or check all the relevant properties of the data including units, normalizations, transmitter and receiver details.



PROFILE/SECTION

Create the style of profile you want to look at on screen and in hardcopy. Logarithmic or linear scales, multiple panels, ranges of channels and



frequencies. Color by channel number, frequency, component, line. Plot auxiliary parameters such as power line noise monitor, transmitter current or other geophysical data. Add sections as located grids with selectable color palette, draped on topography if required. Choose scales, symbols, grids, line styles, labels, title blocks and logos. Save the plot style in a template for use with other data. Batch plot all lines from your project without having to setup each one. Automatically extracts annotation values from your data.

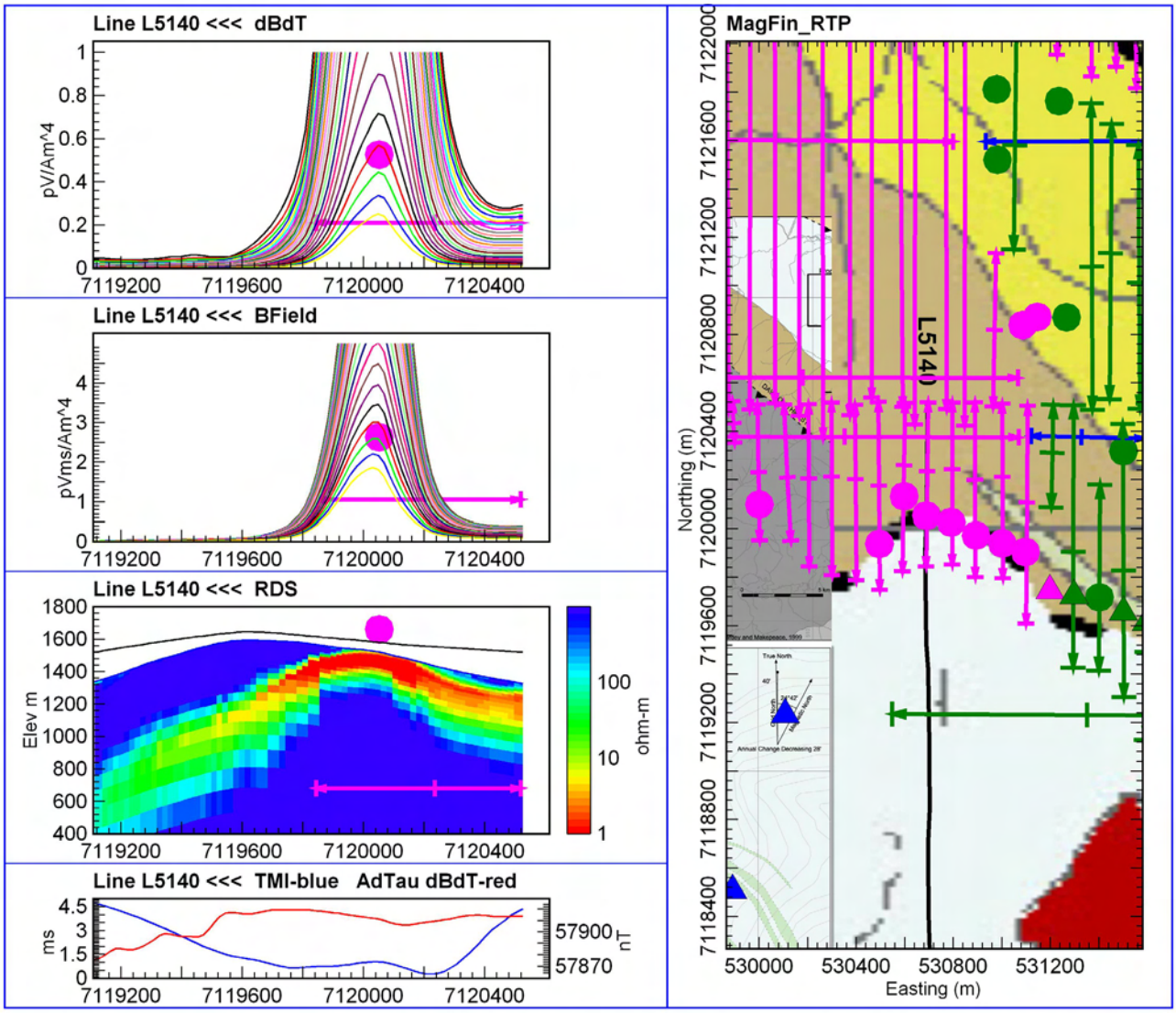
THIRD-PARTY MODELING

Maxwell provides graphical interfaces which can be employed with third-party or in-house modeling codes. The Maxwell GUI allows the design and visualization of models that include conductive plates, prisms, layered hosts and 2.5-D and 3-D meshes. Maxwell can launch the modeling algorithms and retrieve the results seamlessly.

APPENDIX B: NOTES ON TARGET ZONES

TZ A

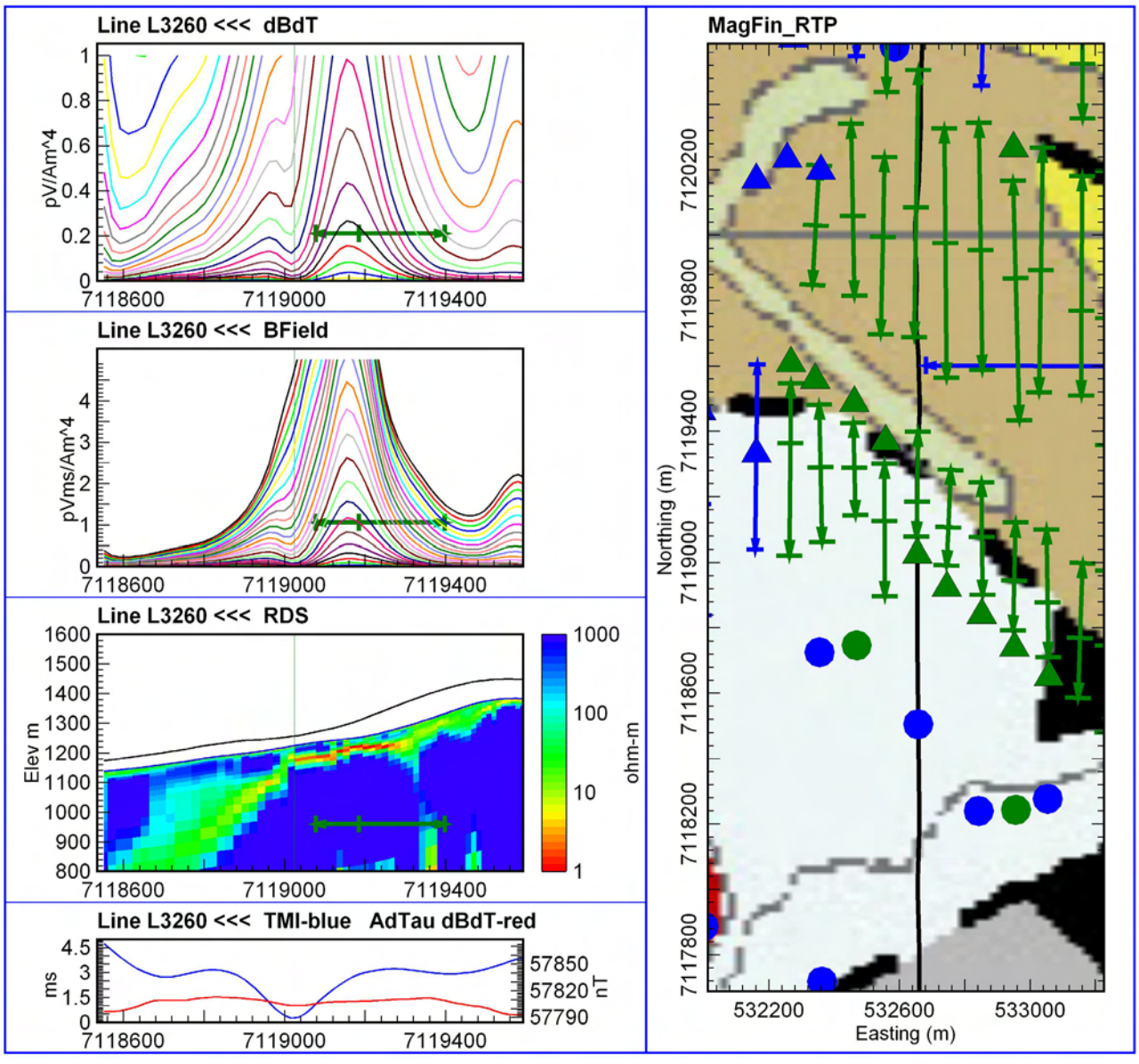
- Priority 1
- This TZ extends from line 5160 to 5010, a strike length of approximately 1.8 km.
- The tops of the conductors are relatively shallow and there is a strong likelihood that they may crop out.
- The conductors are stronger in the west and weaken to the east.
- In the west the conductors appear to be broad and relatively flat-dipping and may be part of the broad, flat-dipping conductor to the north.
- However, on some lines the conductors form a relatively discrete, strong conductor which may have a different source than the broader conductor to the north.
- An example of the latter on Line 5140 is shown in the Figure below.
- These discrete conductors correlate with a weak linear magnetic trend highlighted on the Tilt Angle image, which supports the contention that these arise from a source different than the broad flat-lying conductors to the north.
- This TZ straddles a mapped thrust fault, with Bouvette Fm to the south and Keno Hill Quartzite to the north.



TZ A: Representative flight line 5140 – profiles and RDS.

TZ B

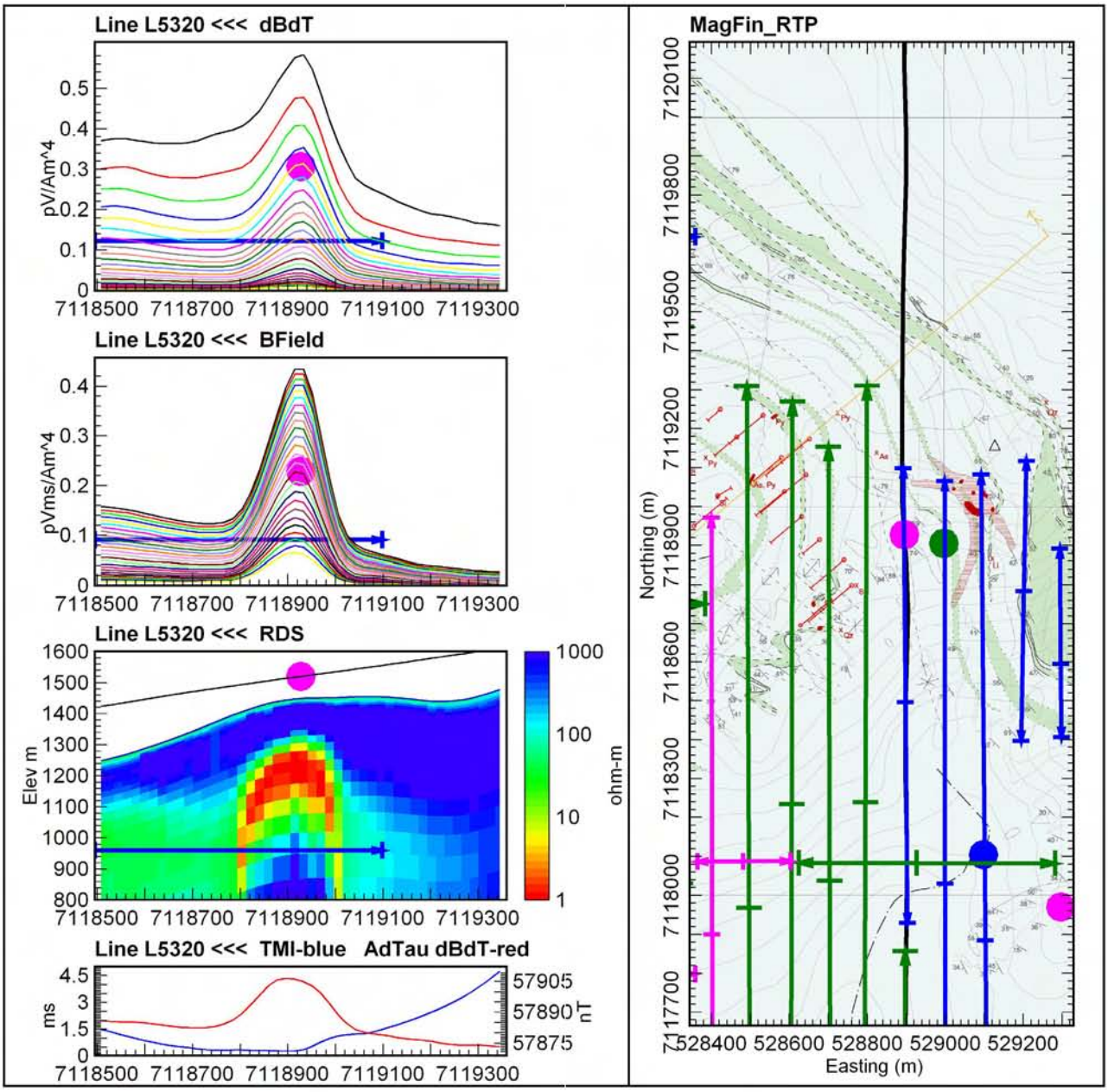
- Priority 3
- This zone of relatively weak, flat-lying conductors lies southeast of TZ A, straddling the same thrust fault.
- However, the conductors are much weaker and appear due to a thin, flat-lying conductor rather than the more discrete, strong conductors comprising TZ A.
- The tops of the conductors are mostly shallow.
- On many lines the southern edge of the flat-lying conductor is defined by a DPR response.
- These DPR responses closely follow a linear magnetic low trending in a WNW-ESE direction
- An example for Line 3260 is shown in the Figure below.



TZ B: Representative flight line 3260 – profiles and RDS.

TZ C

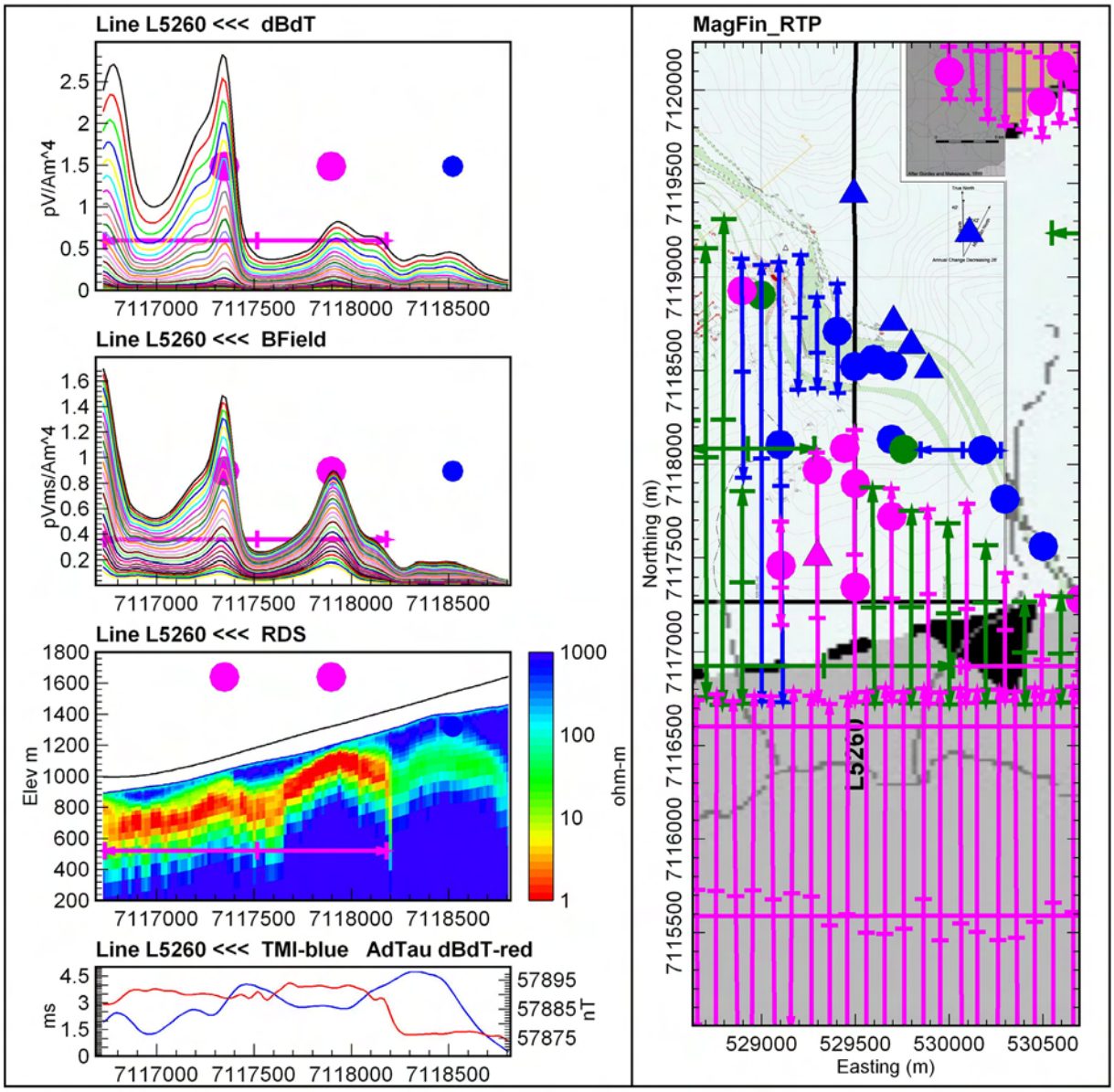
- Priority 1
- This TZ consists of discrete conductive responses on two lines and thus has a very short strike length.
- A very strong SPR response occurs on Line 5320 and a moderate SPR response on Line 5310 (which could be looking sideways as the top of the conductor is deeper).
- The top of the conductor on Line 5320 is approximately 100 m on the RDS, but the true depth may be shallower. However, the conductor may not crop out.
- The conductor is very localized and the possibility that it may be due to a cultural source (e.g. drill rig) needs to be checked.
- This conductor lies only a few hundred meters east of the drill holes which intersected significant gold mineralization.
- However, the nature of the response is quite different from the weak responses correlating with the drilled mineralization.
- Thus, the source of this strong conductor needs to be verified.
- The response on Line 5320 is shown in the Figure below.



TZ C: Representative flight line 5320 – profiles and RDS.

TZ D

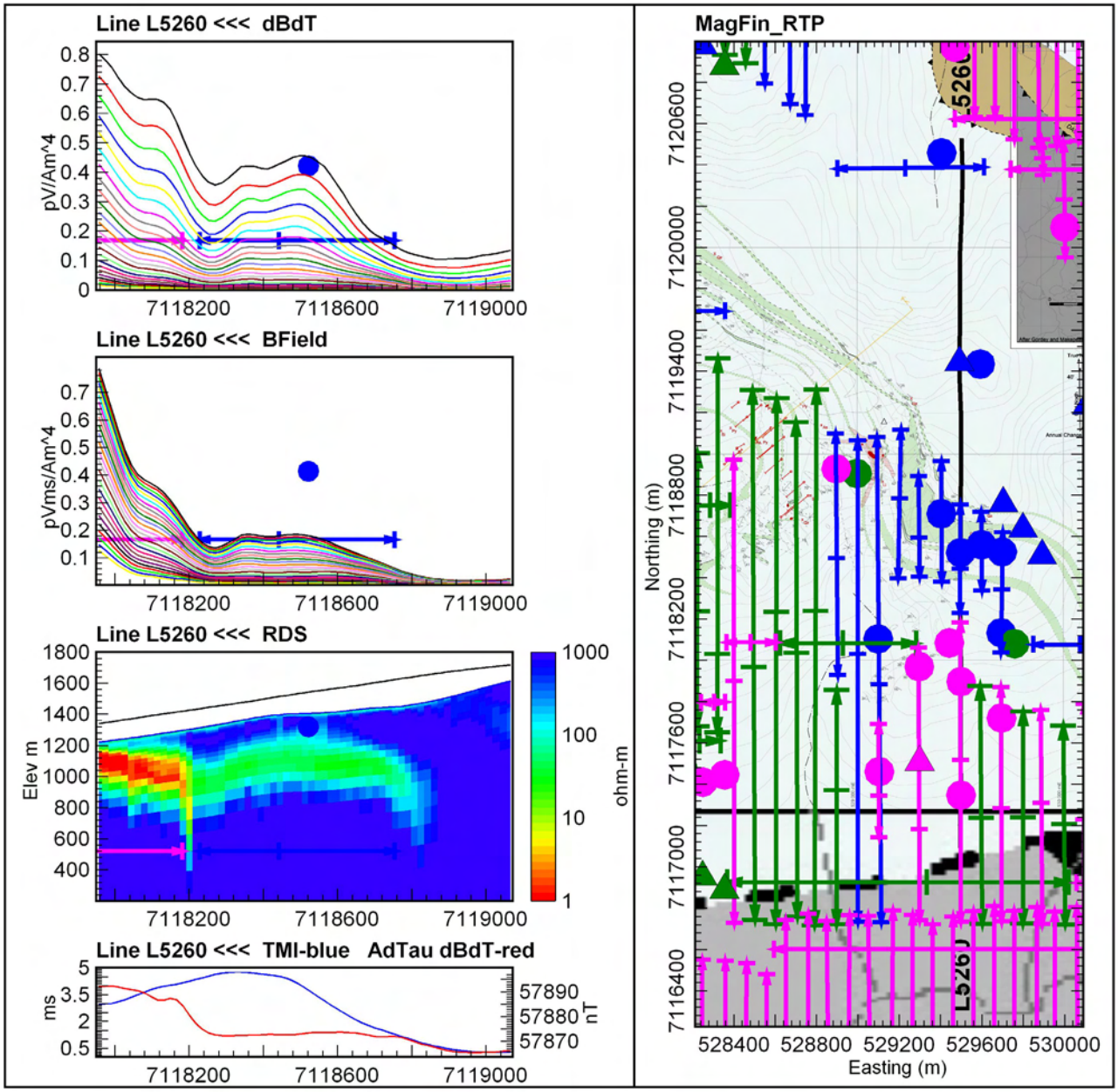
- Priority 3
- This conductive zone lies within mapped Bouvette Fm, but the characteristics of the conductor are similar to those covering the Earn Group to the south, so it appears that the mapping may be in error.
- The conductors are mostly strong and flat-lying, with their tops close to surface.
- However, in some places the top of the conductor is closer to surface (due to folding?) and in these locations an SPR response has been interpreted.
- An example for Line 5260 is shown in the Figure below.
- The interpretation is complicated because every second line (flying North) in this area was flown very high - 400 m or more above ground, which drastically reduces the response amplitude.
- There is no obvious magnetic correlation with this conductor.



TZ D: Representative flight line 5260 – profiles and RDS.

TZ E

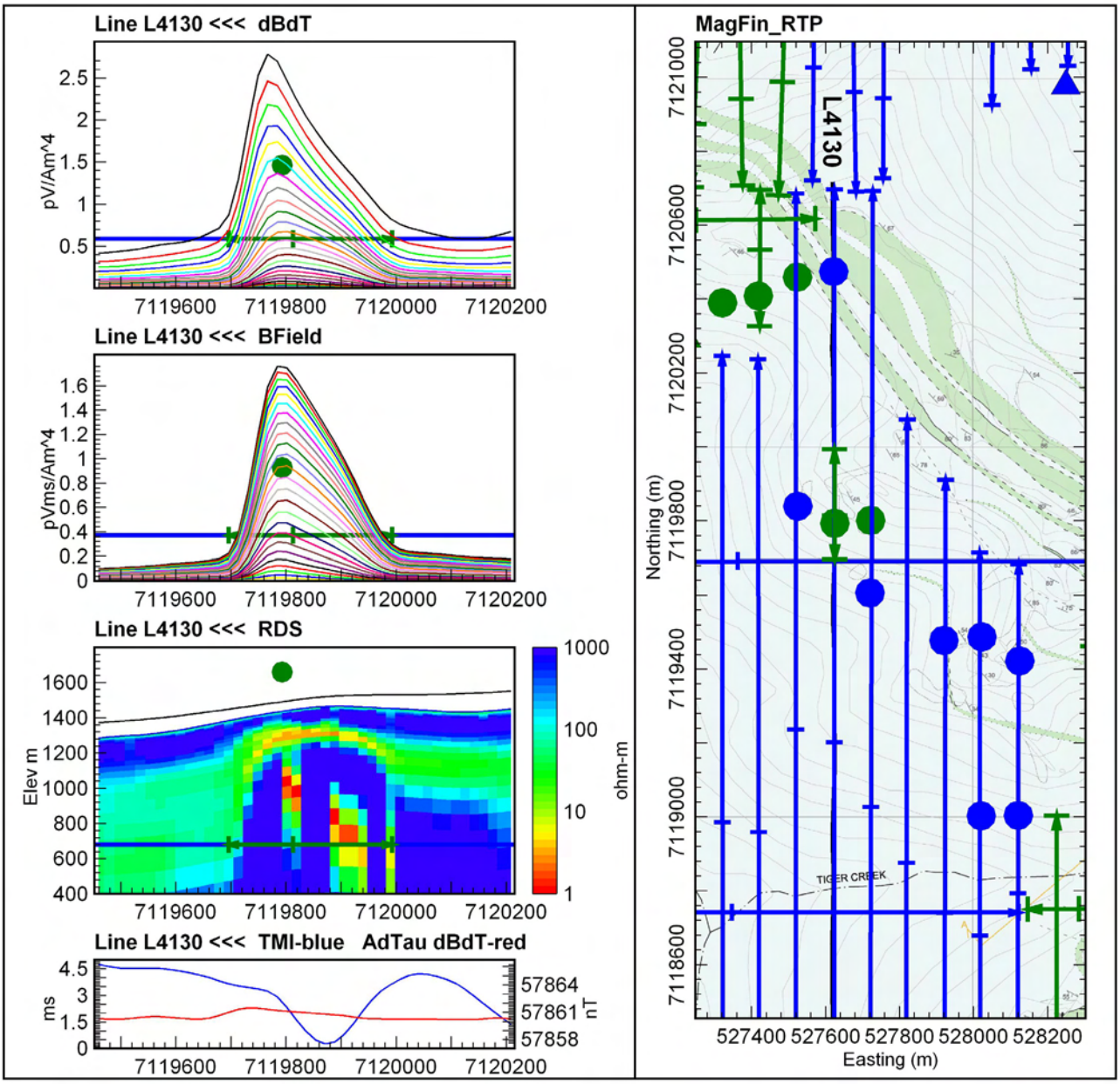
- Priority 2
- This zone of weak, mostly flat-lying conductors lies Southeast of TZ C and could be related to similar responses in the vicinity of the drilled Au mineralization.
- On some lines the conductors on the RDS exhibit an upward "antiform" shape and in these cases the center of the wide conductor has also been picked as a SPR.
- This TZ loosely correlates with the mapped volcanics.
- The response on Line 5260 is shown in the Figure below.



TZ E: Representative flight line 5260 – profiles and RDS.

TZ F

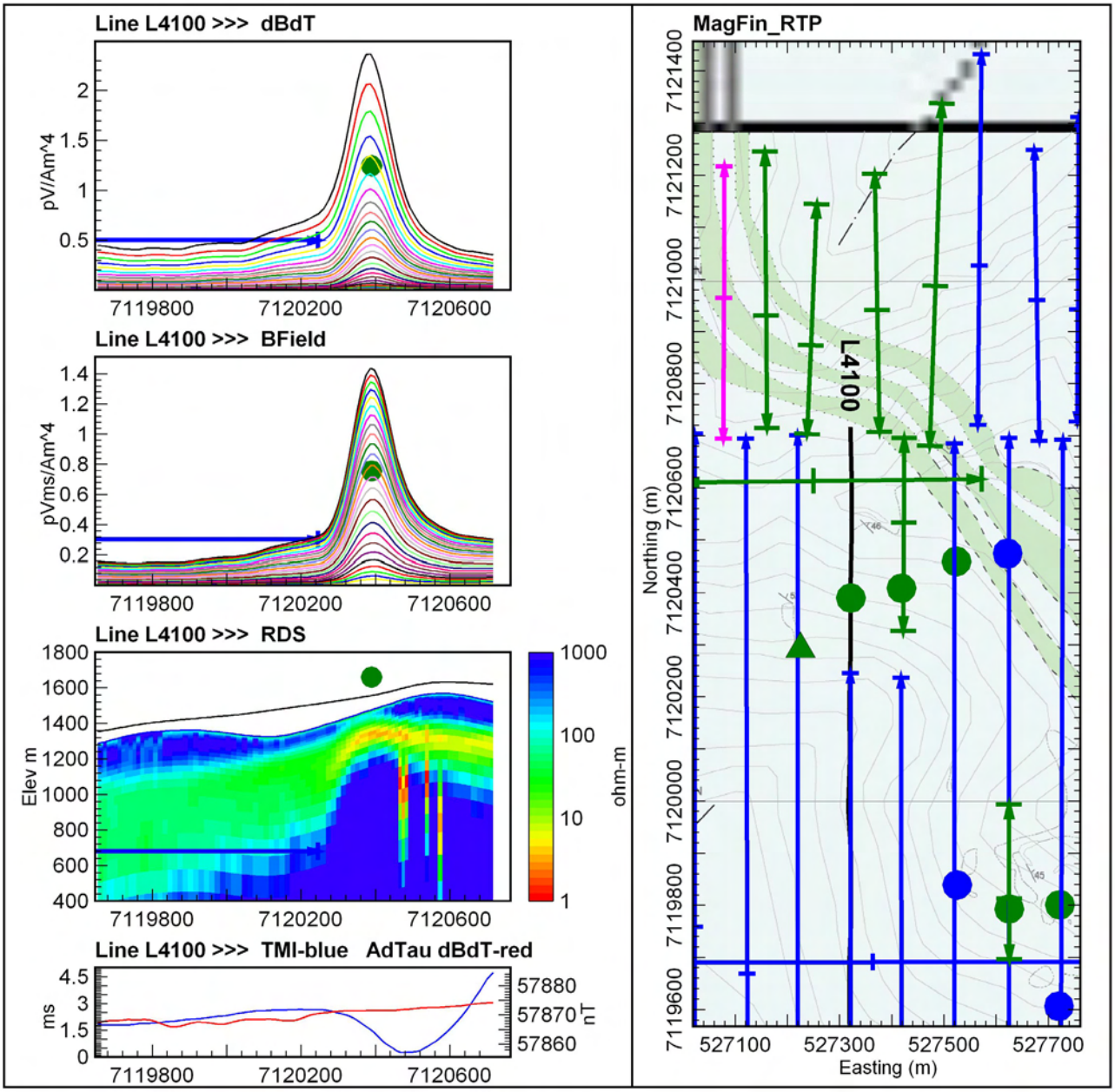
- Priority 2
- This zone of weak-moderate SPR responses lies northwest of the drilled Au area, approximately along strike (based on the trends of the volcanic units).
- The semi-discrete SPR responses are superimposed on weak flat-lying responses, which extend well to the south.
- On two lines (4130 and 4140) the SPR responses are stronger and stand out from the flat-lying conductor and appear to be discrete conductors closer to surface.
- The response on Line 4130 is shown in the Figure below.
- There is no obvious magnetic signature for these conductors.



TZ F: Representative flight line 4130 – profiles and RDS.

TZ G

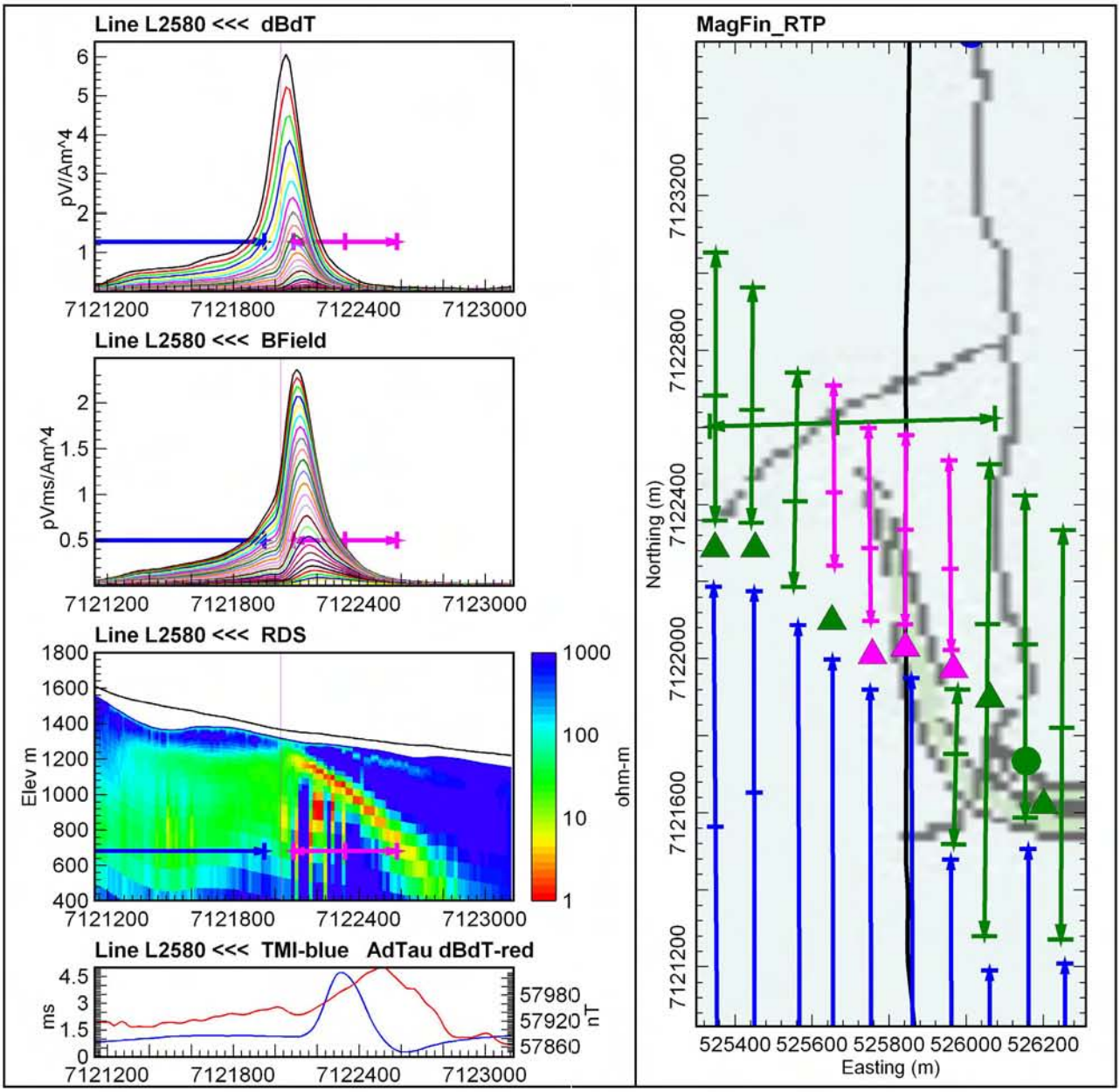
- Priority 3
- This zone extends over 5 lines, with a length of approximately 600 m.
- It appears to comprise the southern edge of a shallow dipping (to the north) conductive unit, where this edge comes close to the surface (perhaps crops out).
- This edge exhibits as SPR responses on four lines and as a DPR response on one line.
- The response on Line 4100 is shown in the Figure below.
- The trend of this zone is almost perpendicular to the mapped volcanic units in the area, which suggests either that the mapping may be incorrect, or that the conductors are related to a cross fault.



TZ G: Representative flight line 4100 – profiles and RDS.

TZ H

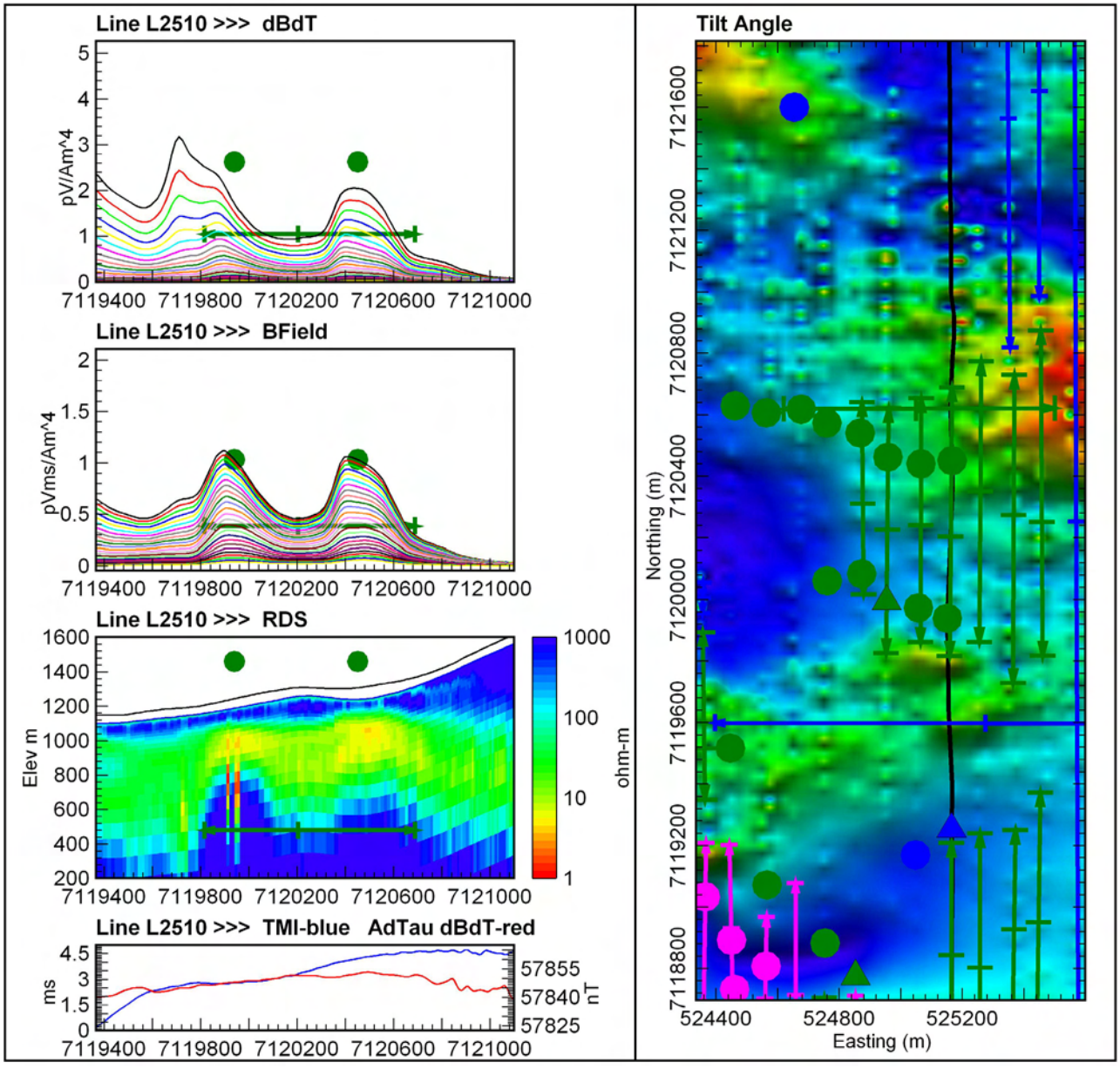
- Priority 3
- This extensive zone has a strike length of 4 500 m and consists of shallow-dipping (to the north) conductors, with SPR or DPR responses where these come close to surface or crop out.
- As such, this zone appears to be a conductive, stratigraphic unit.
- An example for Line 2580 is shown in the Figure below.
- This TZ loosely correlates with a linear magnetic trend, which may be associated with volcanics.



TZ H: Representative flight line 2580 – profiles and RDS.

TZ I

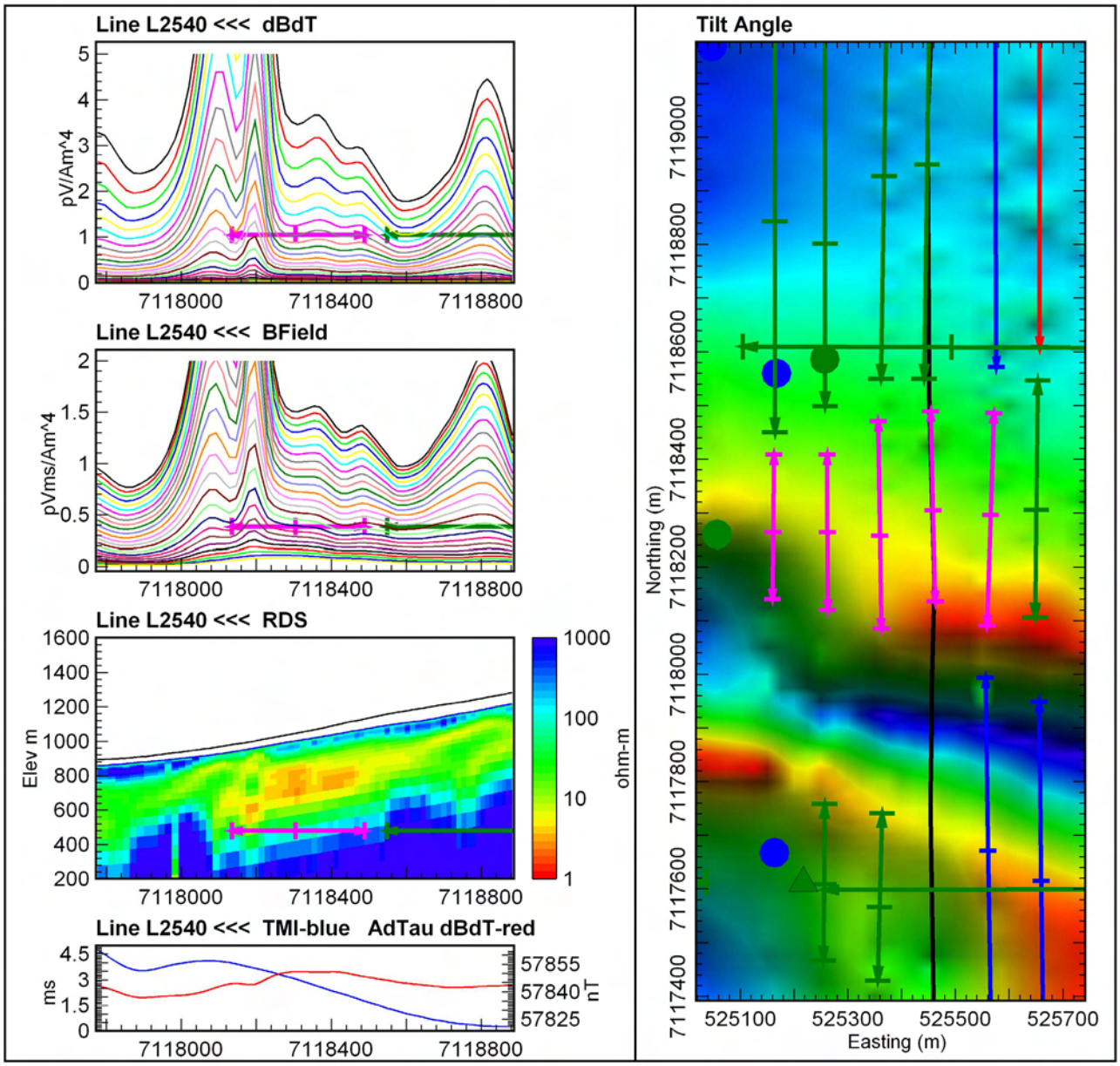
- Priority 3
- This zone has dimensions of approximately 1 000 x 800 m and consists of enhanced conductivity within an extensive weaker conductive zone.
- An example for Line 2510 is shown in the Figure below.
- The conductive zone is relatively flat-lying and while the top is close to surface, it may not crop out.
- In the western part of the TZ the conductor splits into two, with northern and southern parts and a less conductive section between.
- The TZ lies within a broad zone of subdued magnetics.



TZ I: Representative flight line 2510 – profiles and RDS.

TZ J

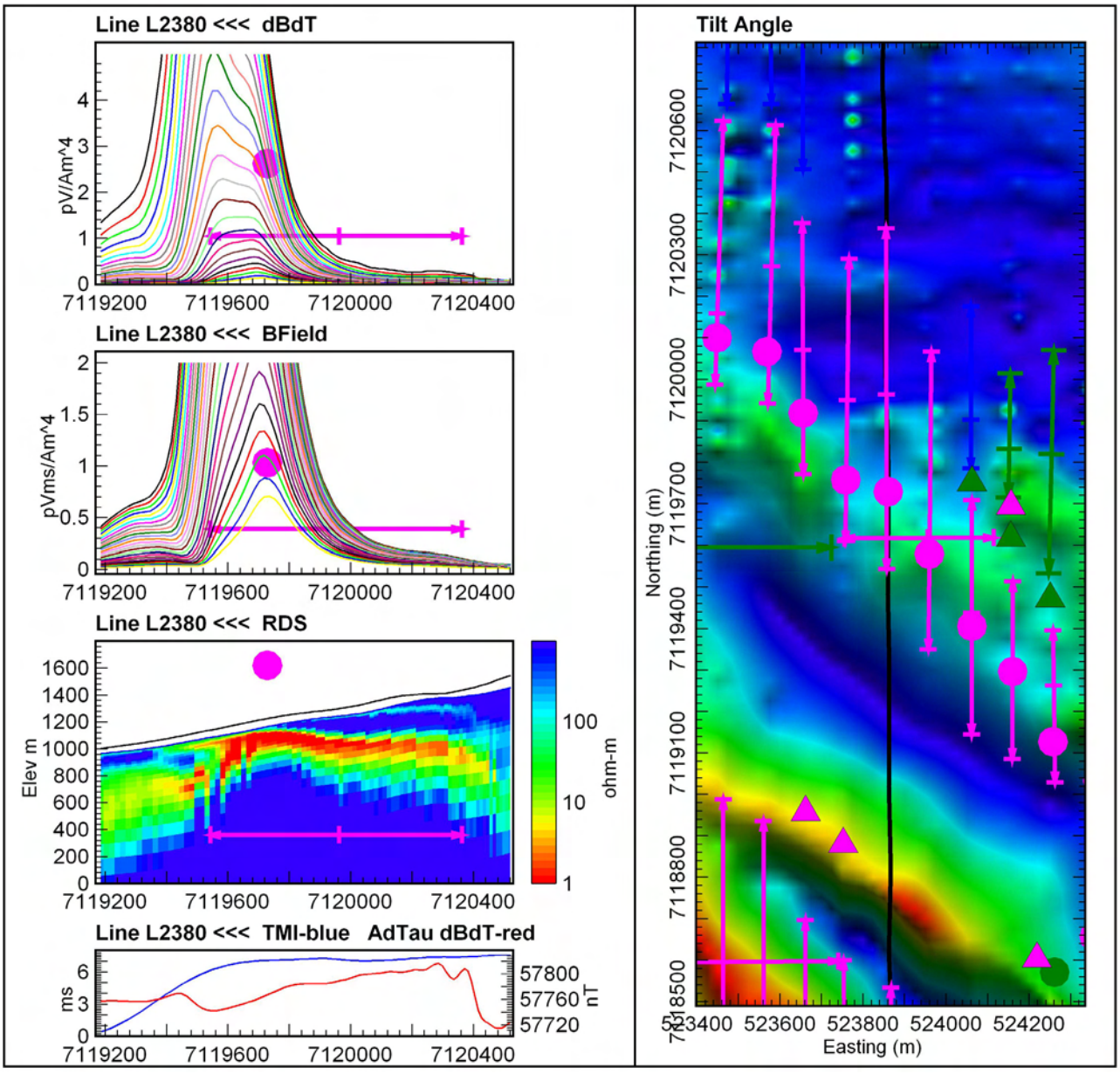
- Priority 2
- This TZ has a strike length of approximately 500 m and consists of a locally stronger conductive zone within a more extensive, flat-lying conductor.
- Strong wide conductors are picked on five lines.
- A typical example (for Line 2540) is shown in the Figure below.
- The conductor trend lies slightly oblique to a magnetic trend.



TZ J: Representative flight line 2540 – profiles and RDS.

TZ K

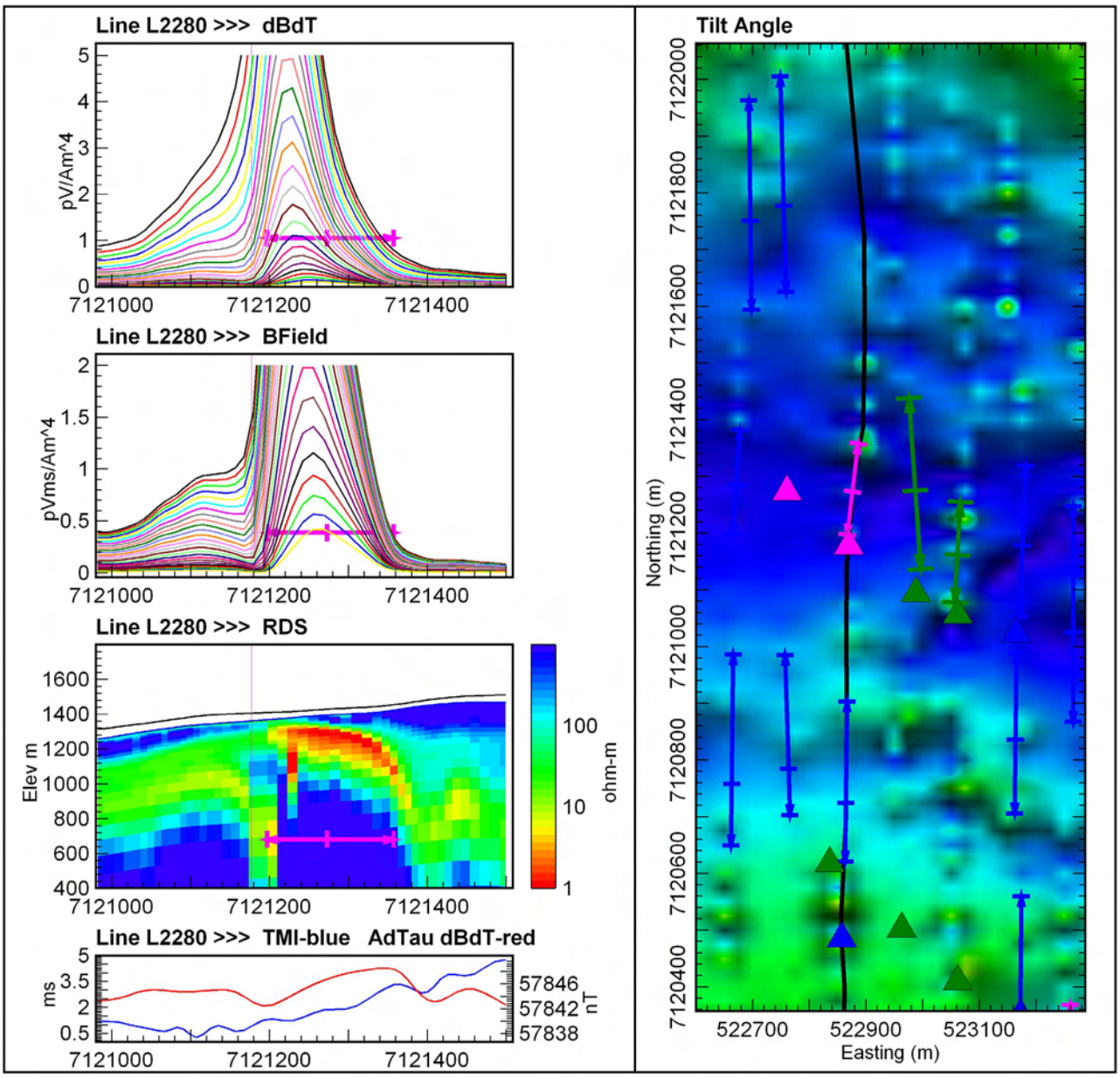
- Priority 2
- This TZ has strike length of approximately 2.5 km and consists primarily of shallow, strong, wide conductors which dip gently to the north.
- Along the southern edge of this zone the conductors are closest to surface and may crop out.
- A typical conductor (for Line 2380) is shown in the Figure below.
- These conductors appear to be stratigraphic in nature.
- The conductors comprising this TZ cross the magnetic stratigraphy at an oblique angle.



TZ K: Representative flight line 2380 – profiles and RDS.

TZ L

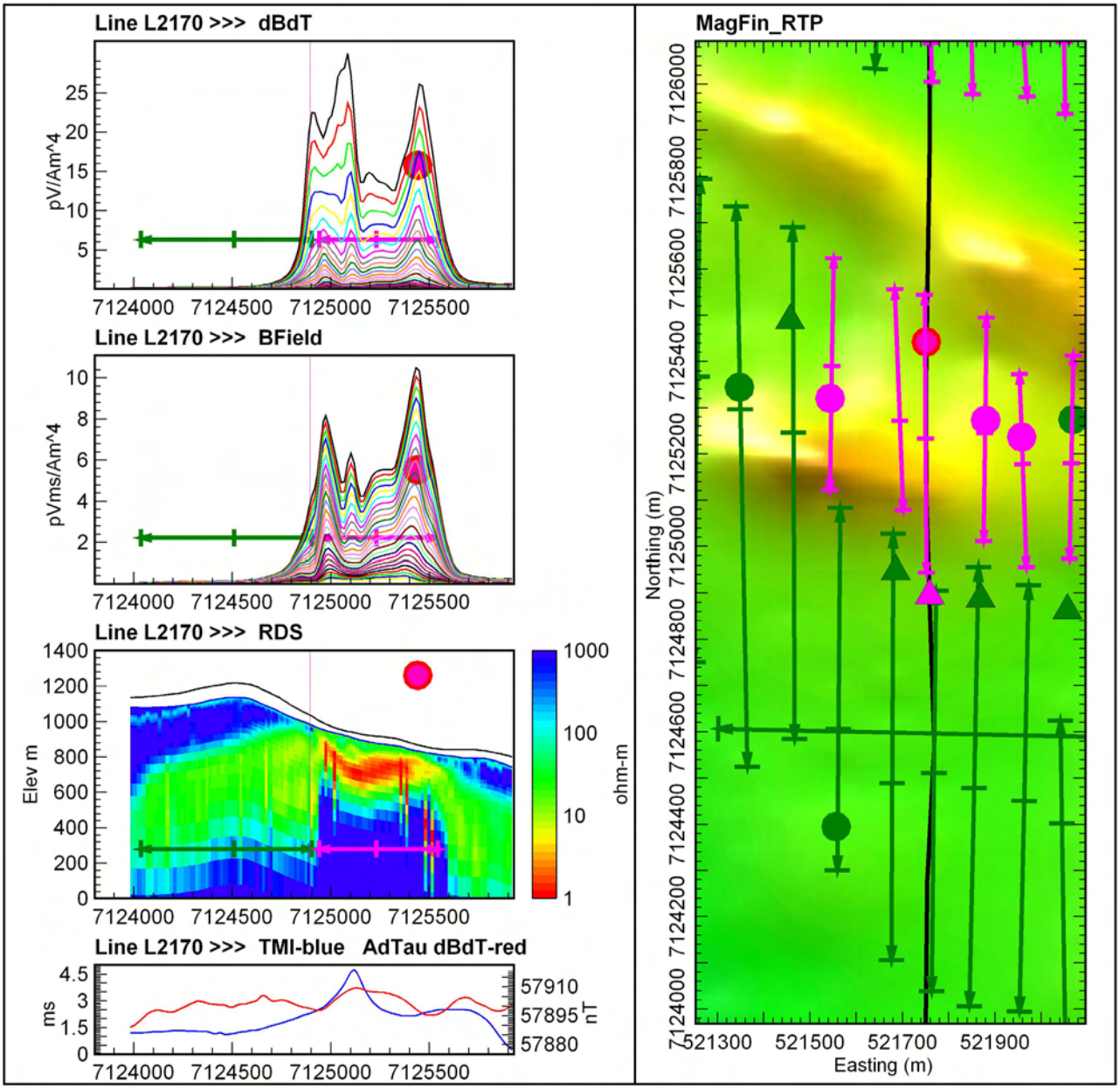
- Priority 1
- This TZ has short strike length of approximately 500 m and consists of DPR responses on four lines.
- The conductor appears to have shallow north dip and may crop out in the locations of the picked DPR.
- The strongest and best defined responses are on Lines 2280 and 2300. The former is shown in the Figure below.
- The TZ lies in an area of quiet magnetics.
- The short strike length suggests that these conductors may not be due to a conductive stratigraphic unit, but some localized feature.



TZ L: Representative flight line 2280 – profiles and RDS.

TZ M

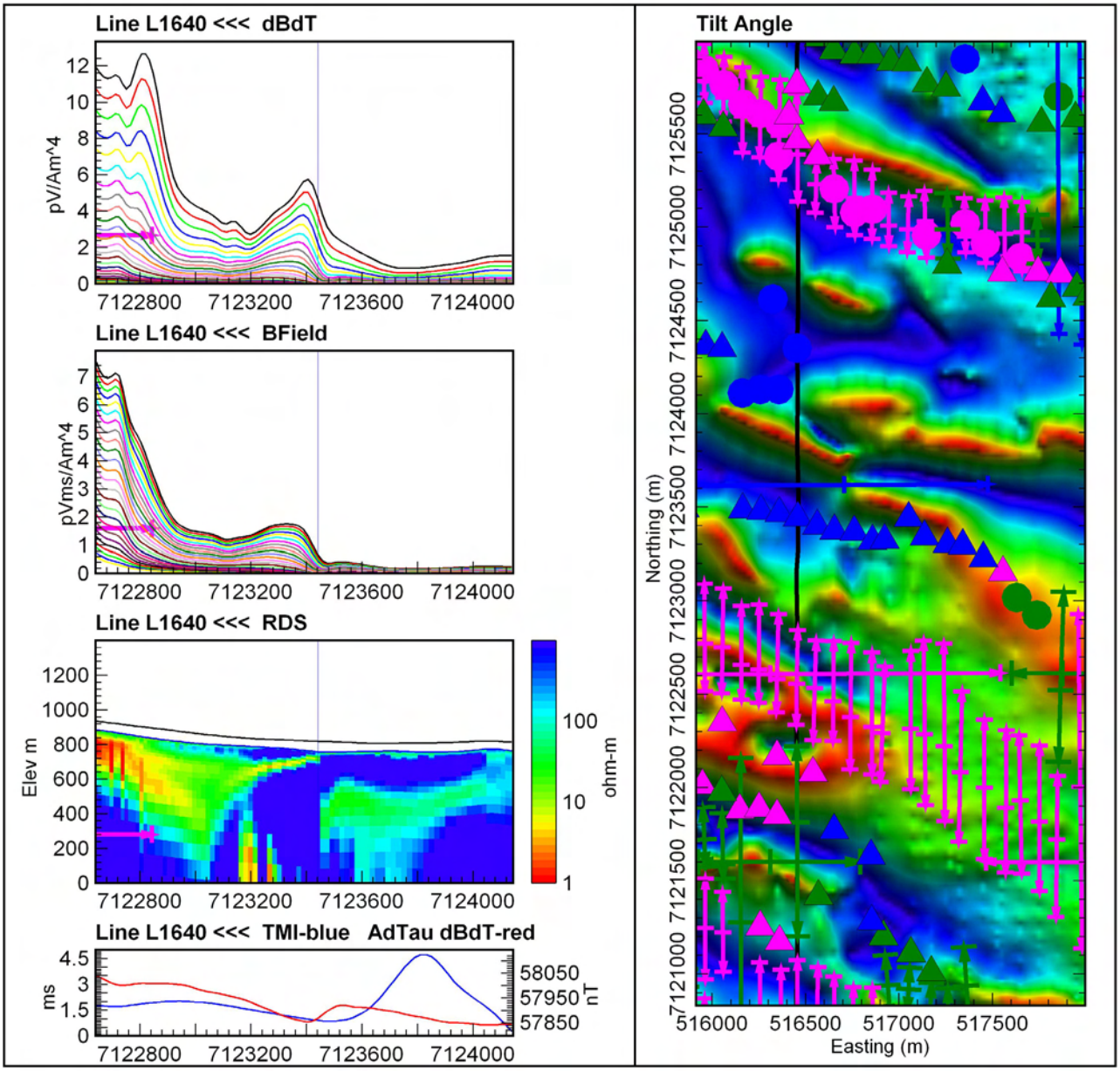
- Priority 3
- This zone has similarities to TZ H. It has a strike length of approximately 5 km and extends northwest beyond the survey area.
- It consists of shallow-dipping (to the north) conductors, with SPR or DPR responses where these come close to surface or crop out.
- As such, this zone appears to be a conductive, stratigraphic unit.
- An example for Line 2170 is shown in the Figure below.
- This TZ loosely correlates with linear magnetic trends, which may be associated with volcanics.



TZ M: Representative flight line 2170 – profiles and RDS.

TZ N

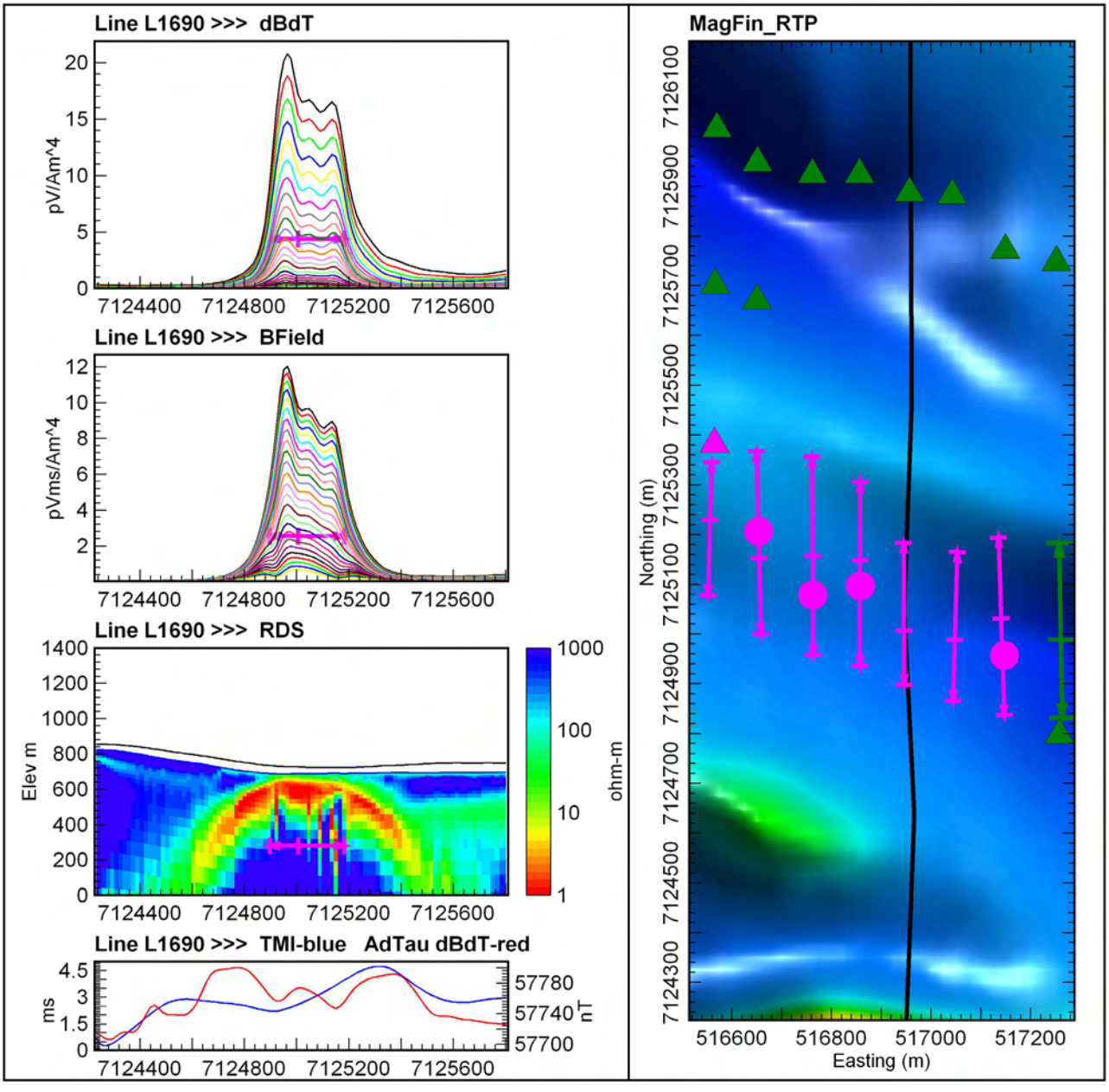
- Priority 3
- This TZ trends east-west, with a strike length of approximately 1 800 m and consists mostly of weak DPR responses with interpreted dips shallow to the south.
- The locations of the DPR picks represent the top of the conductors, where they may crop out.
- A representative example (Line 1640) is shown in the Figure below.
- The conductor trend lies slightly oblique to the magnetic trends in this area.



TZ N: Representative flight line 1640 – profiles and RDS.

TZ O

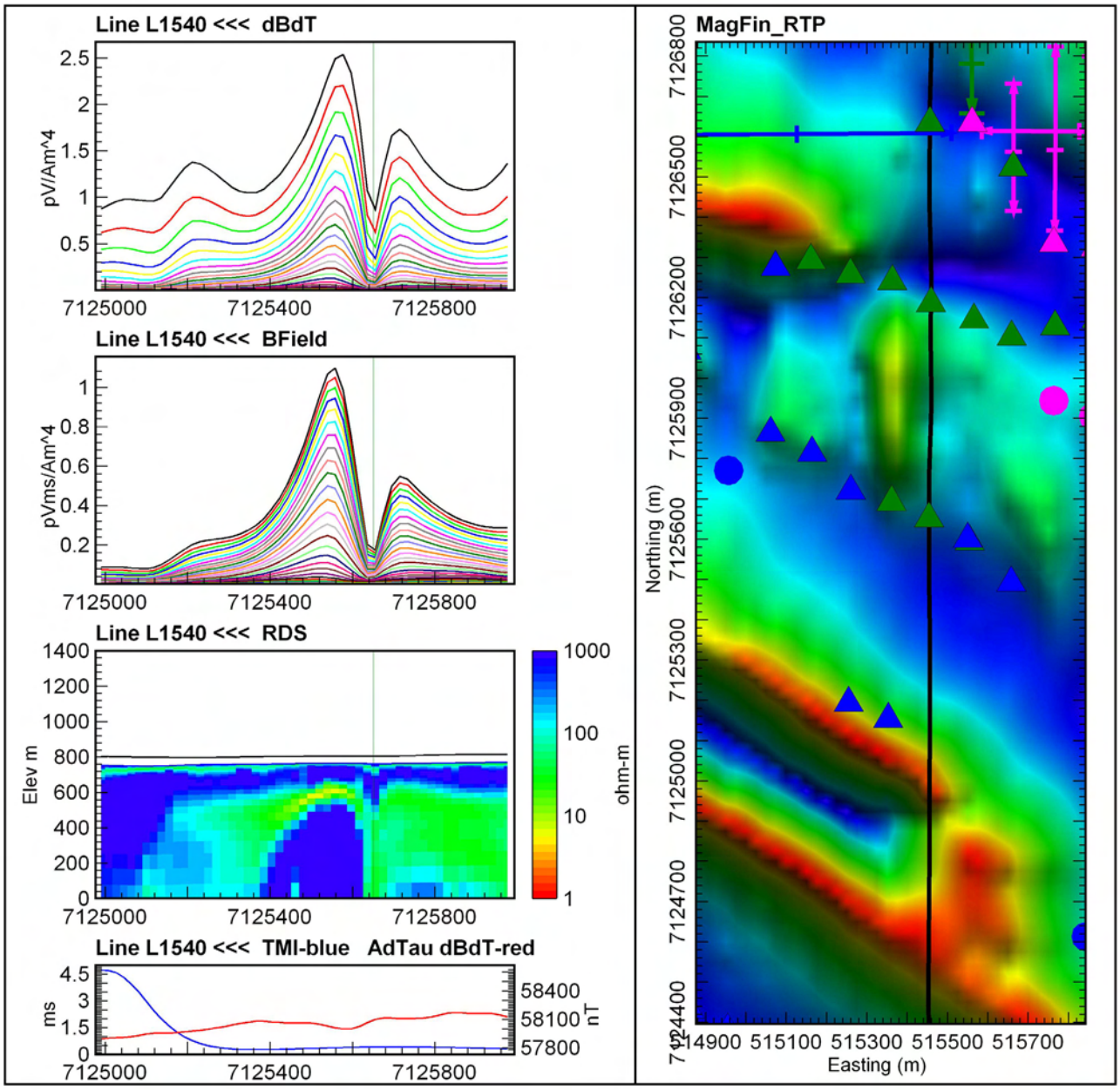
- Priority 2
- This zone extends for approximately 3 km and consists of wide conductors, combined with SPR and DPR conductors.
- An example for Line 1690 is shown in the Figure below.
- It appears to be due to a shallow, north-dipping stratigraphic unit.
- The southern extent of the wide conductors and/or DPR responses indicates where the conductor comes closest to surface and may crop out.
- This zone loosely correlates with magnetic trends.



TZ O: Representative flight line 1690 – profiles and RDS.

TZ P

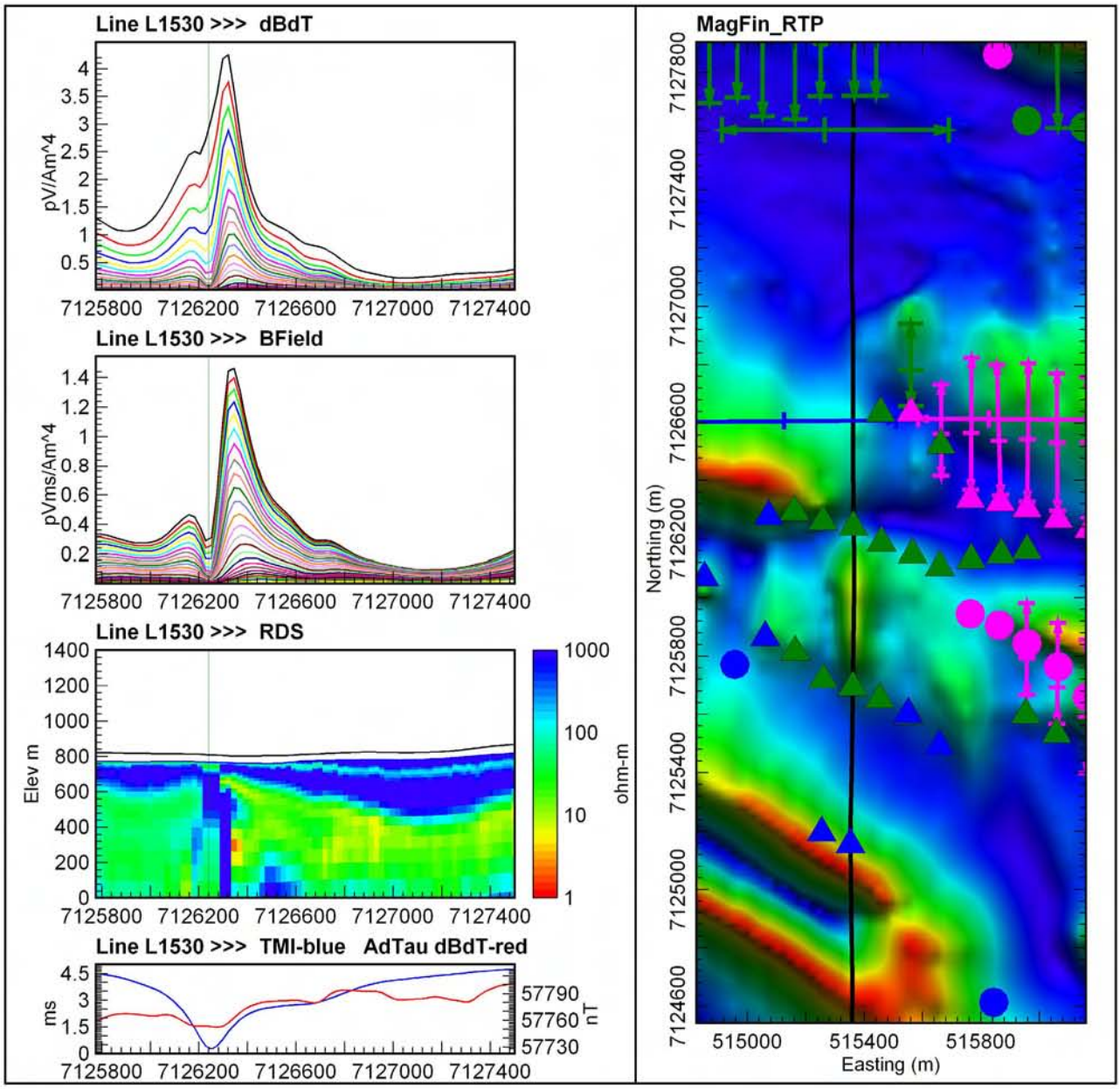
- Priority 2
- This zone is approximately 800 m long and consists of weak-medium DPR responses, the asymmetry of which imply a southerly dip.
- An example of one of the moderate conductors (Line 1540) is shown in the Figure below.
- The conductors loosely correlate with magnetic trends.



TZ P: Representative flight line 1540 – profiles and RDS.

TZ Q

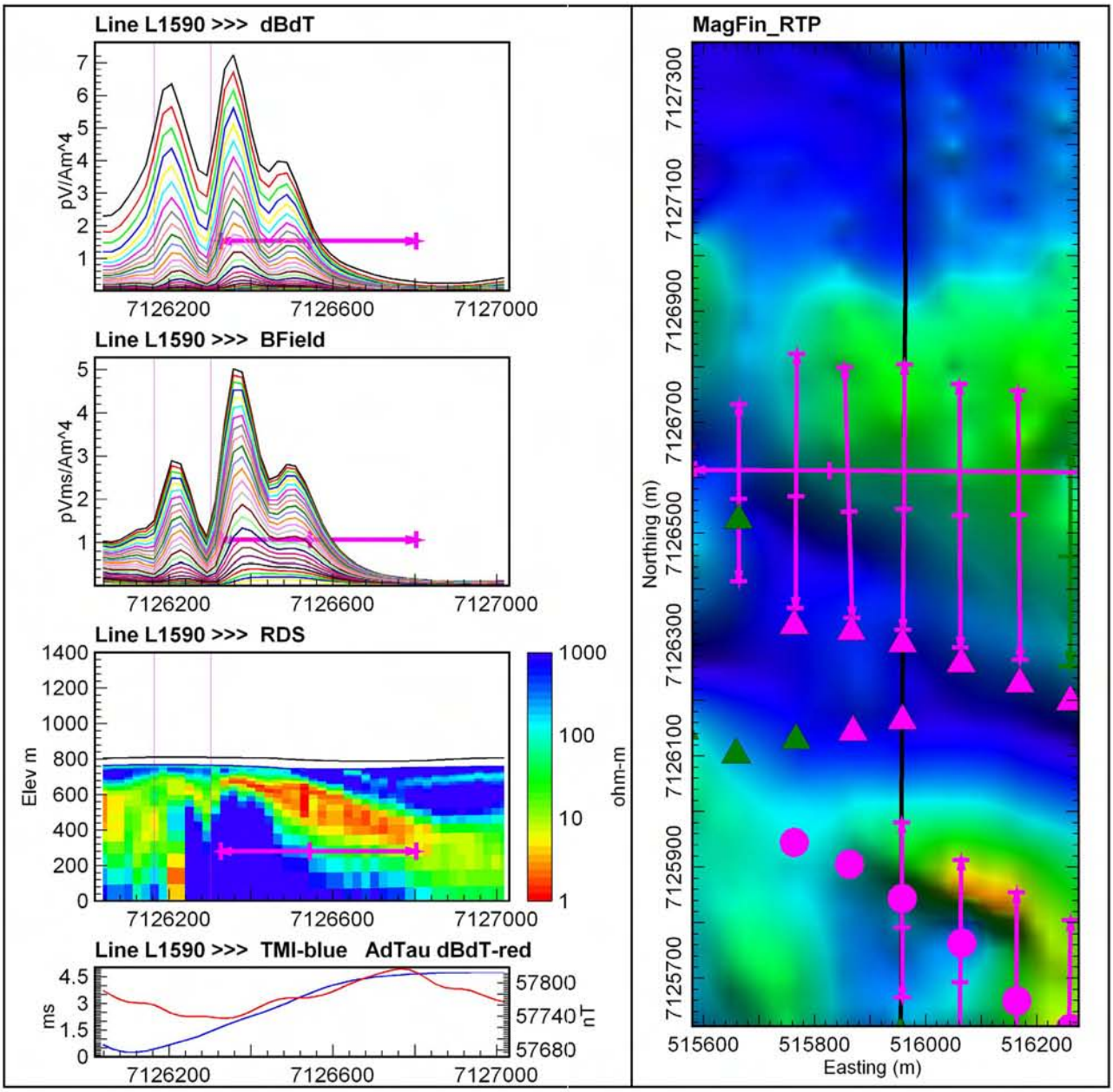
- Priority 2
- This zone is approximately 1 km long and consists of shallow north-dipping conductors, the southern edge of which are delineated by DPR responses.
- These conductors are moderately conductive and appear to be stratigraphic in nature.
- An example for Line 1530 is shown in the Figure below.
- The conductors loosely correlate with magnetic trends.



TZ Q: Representative flight line 1530 – profiles and RDS.

TZ R

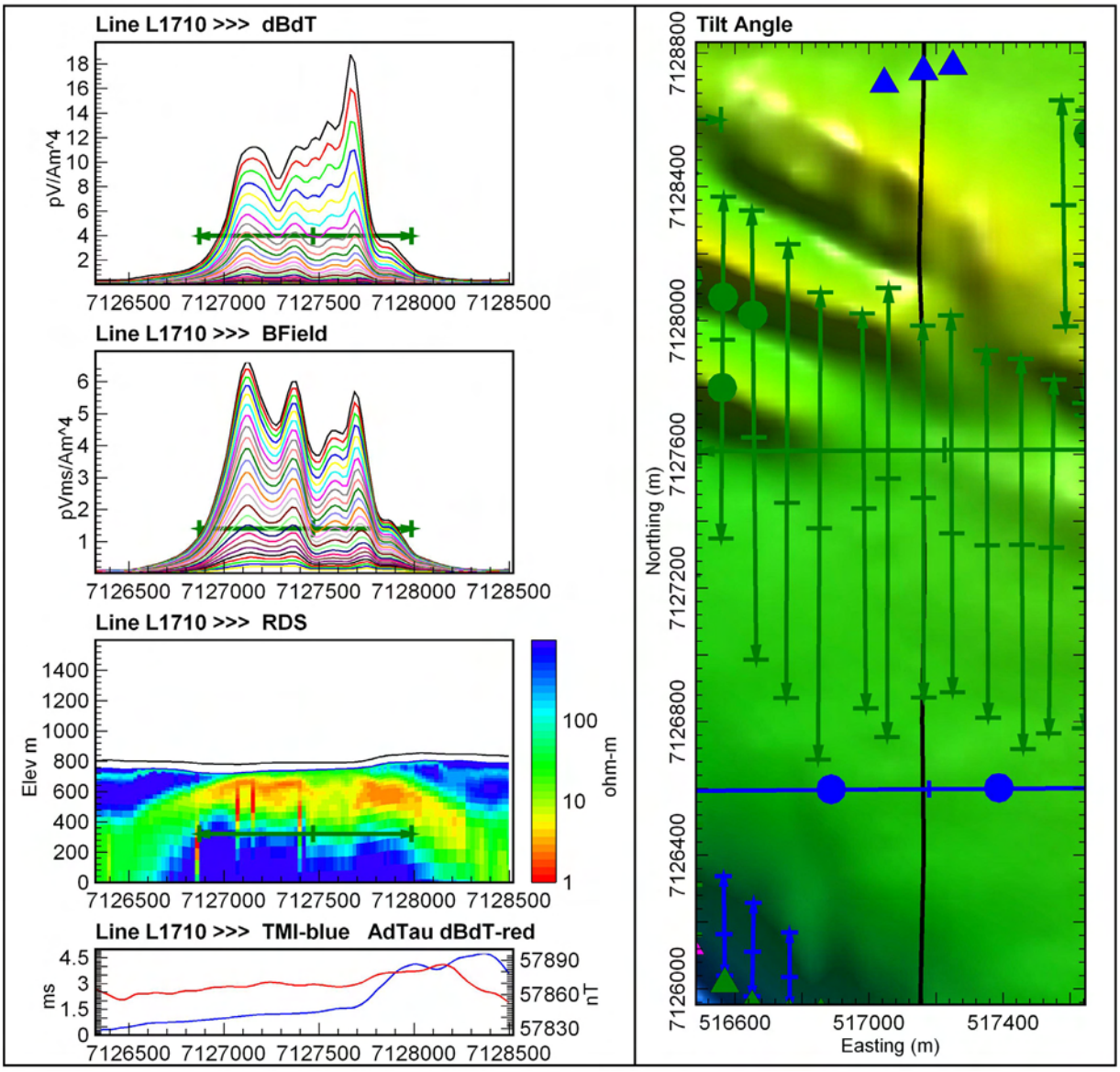
- Priority 2
- This zone is approximately 2 km long and consists of shallow north-dipping conductors, the southern edges of which are delineated by DPR responses.
- These appear to be stratigraphic in nature.
- An example for Line 1590 is shown in the Figure below.
- The conductors correlate with magnetic trends.



TZ R: Representative flight line 1590 – profiles and RDS.

TZ S

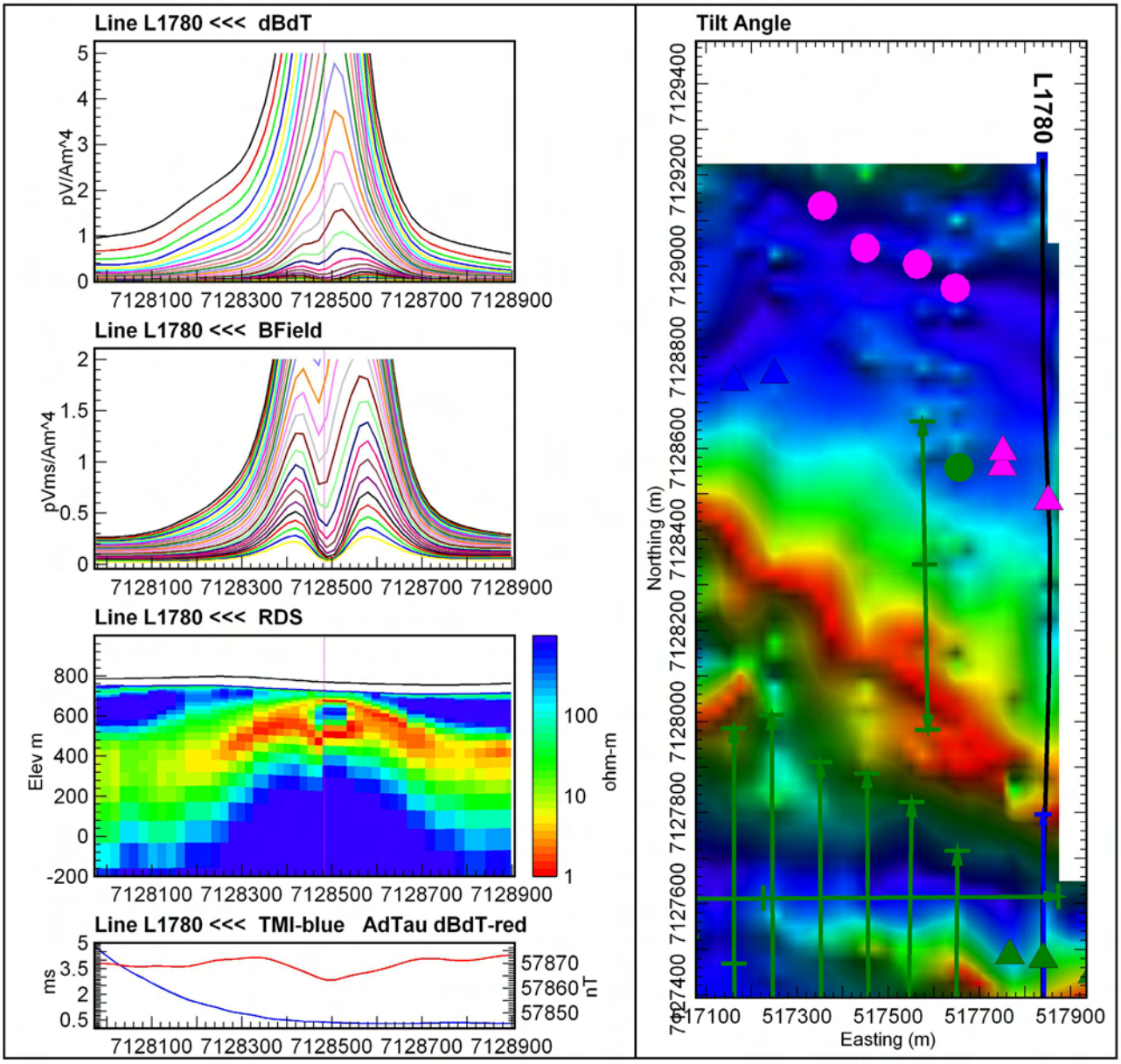
- Priority 3
- This very large zone is likely the northwest extension of TZ M.
- It is approximately 7.5 km long and up to 2.5 km wide and is open to the east.
- The wide overall zone appears to be composed of multiple, close-spaced conductors. In most cases the interpreted dips are shallow to the north.
- In the east and central section the conductors are shallow, but in the west they appear to plunge to the northwest and weaken.
- Also in the west, the overall conductive zone splits into a northern and southern section. The southern section weakens and deepens and may be truncated. The northern section continues northwest for approximately 2 km.
- An example from the eastern part of the zone (Line 1710) is shown in the Figure below.
- The overall zone generally follows the magnetic stratigraphy, but without direct correlation of individual conductors with magnetic units.



TZ S: Representative flight line 1710 – profiles and RDS.

TZ T

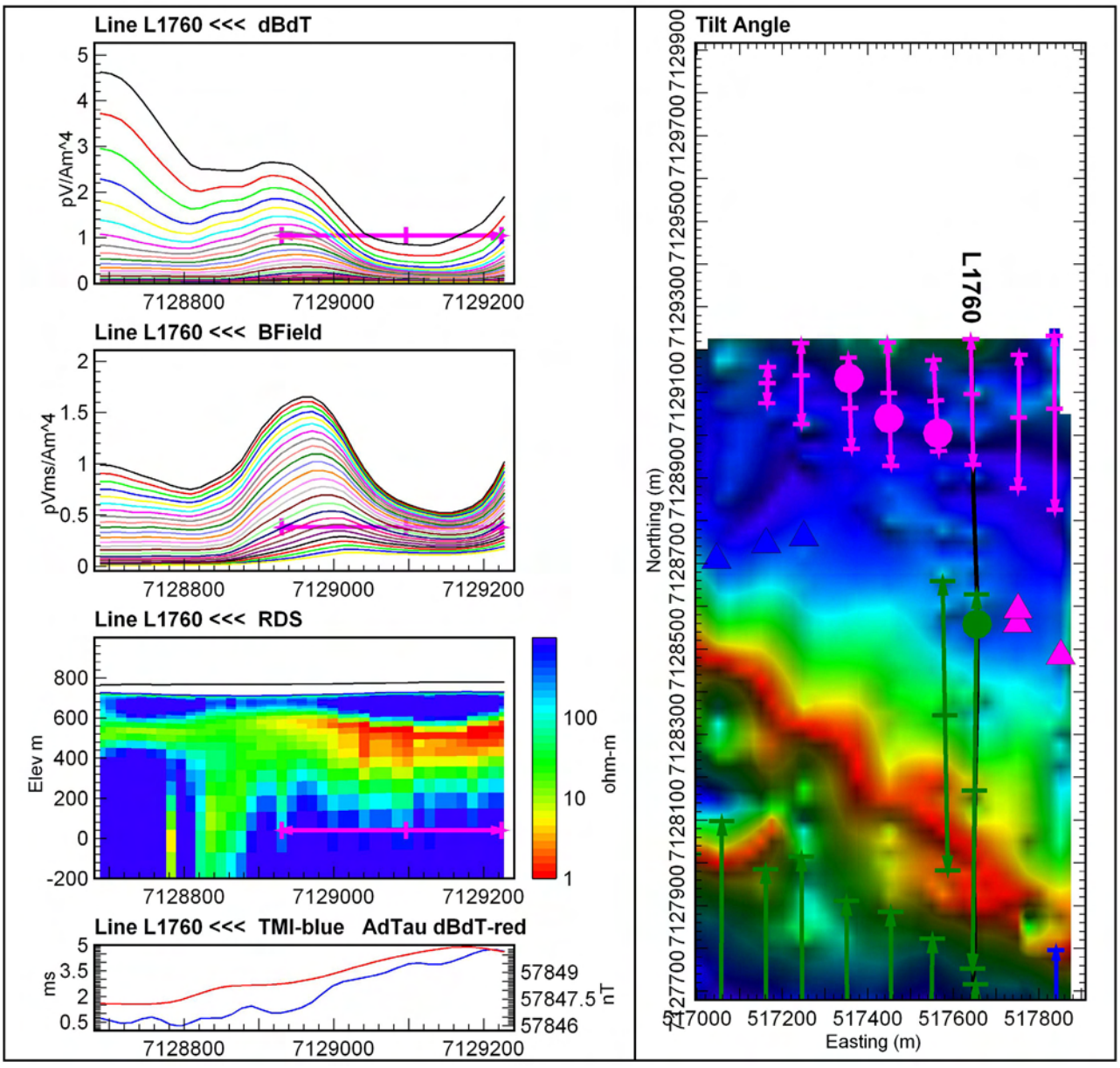
- Priority 1
- This TZ lies close to the survey boundary and is defined on only two lines (Line 1770 and 1780).
- The response on Line 1780 is shown in the Figure below.
- On both lines the picks are strong DPR and appear to be due to a strong, relatively steep conductor which likely extends eastward inside ATAC ground.
- There is no significant magnetic response associated with this conductor.



TZ T: Representative flight line 1780 – profiles and RDS.

TZ U

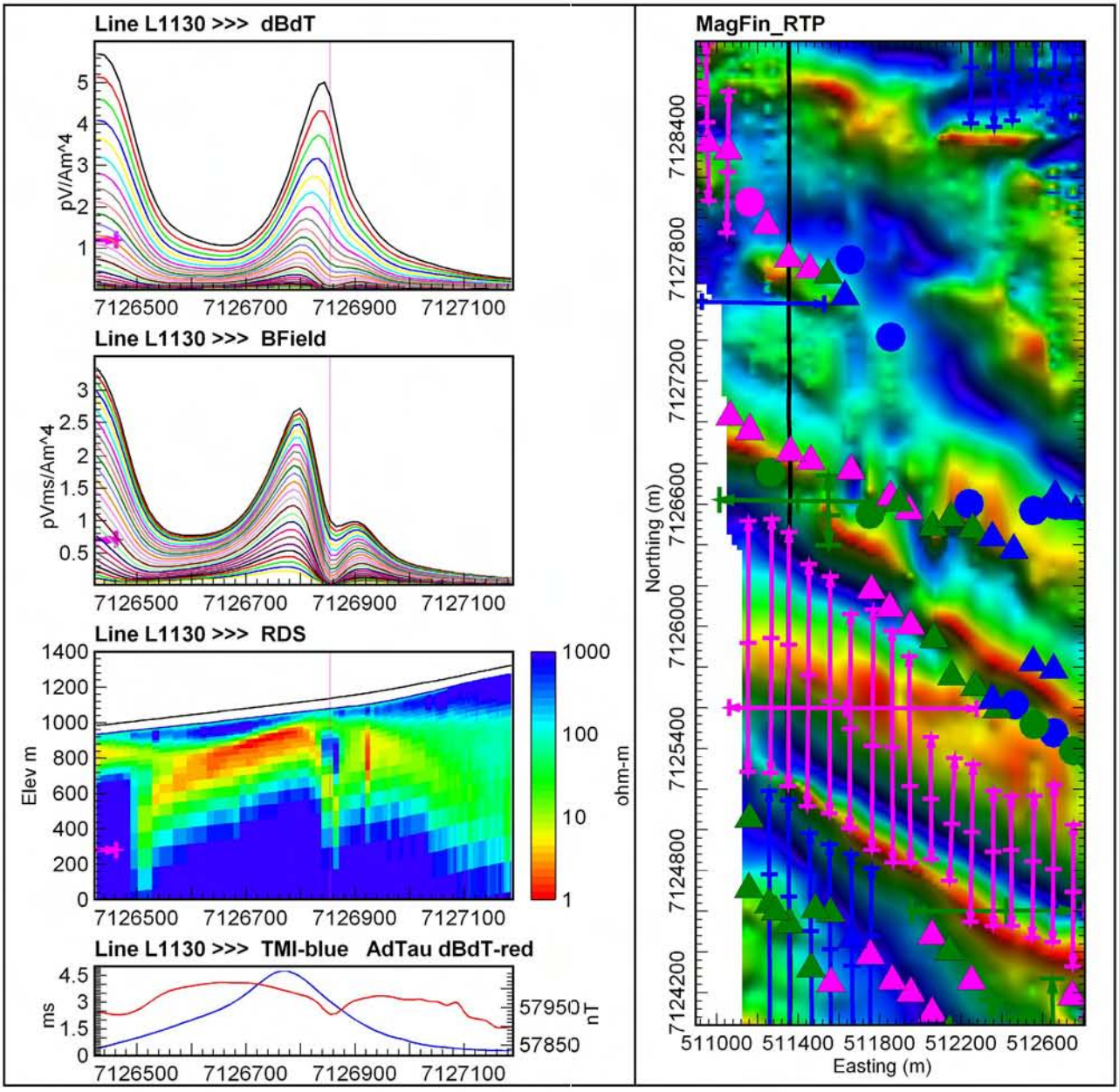
- Priority 2
- This TZ is located close to the corner of the VTEM survey boundary and consequently is not spatially resolved, as the conductors extend beyond the survey boundary in several directions.
- The TZ lies within mapped Earn Group. The conductors are strong wide zones and have characteristics similar to those of the Keno Hill quartzite further east, so possibly may be mis-mapped.
- An example for Line 1760 is shown in the Figure below.
- There is no significant magnetic response associated with these conductors.



TZ U: Representative flight line 1760 – profiles and RDS.

TZ V

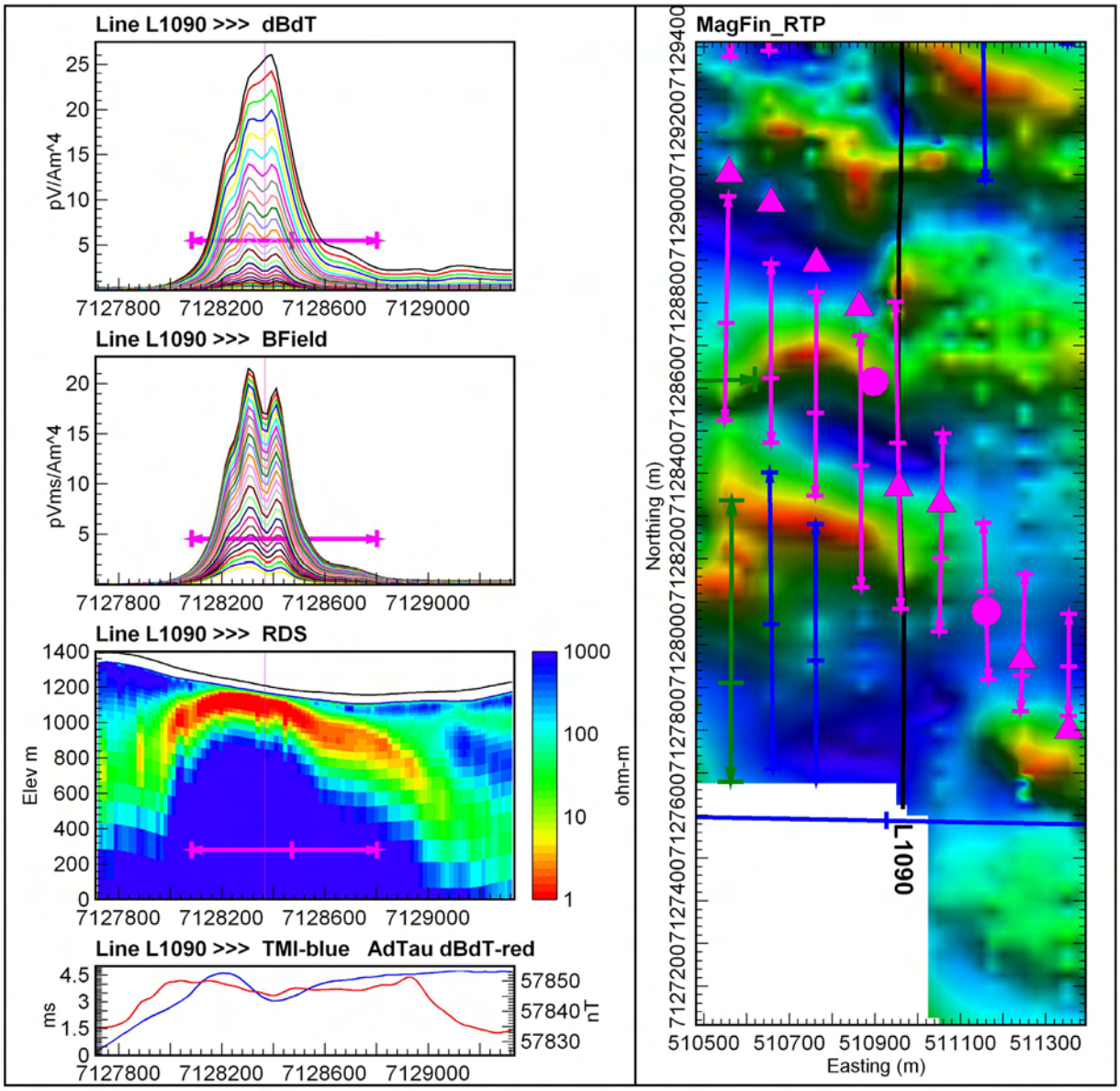
- This zone is 1.5 km long and open to the west. It is comprised mostly of strong to weak DPR responses which indicate a thin conductor dipping to the south.
- The DPR locations define the top of the conductor, where it may crop out.
- An example of one of the stronger conductors on Line 1130, near the western boundary, is shown in the Figure below.
- The conductors loosely correlate with magnetic trends.



TZ V: Representative flight line 1130 – profiles and RDS.

TZ W

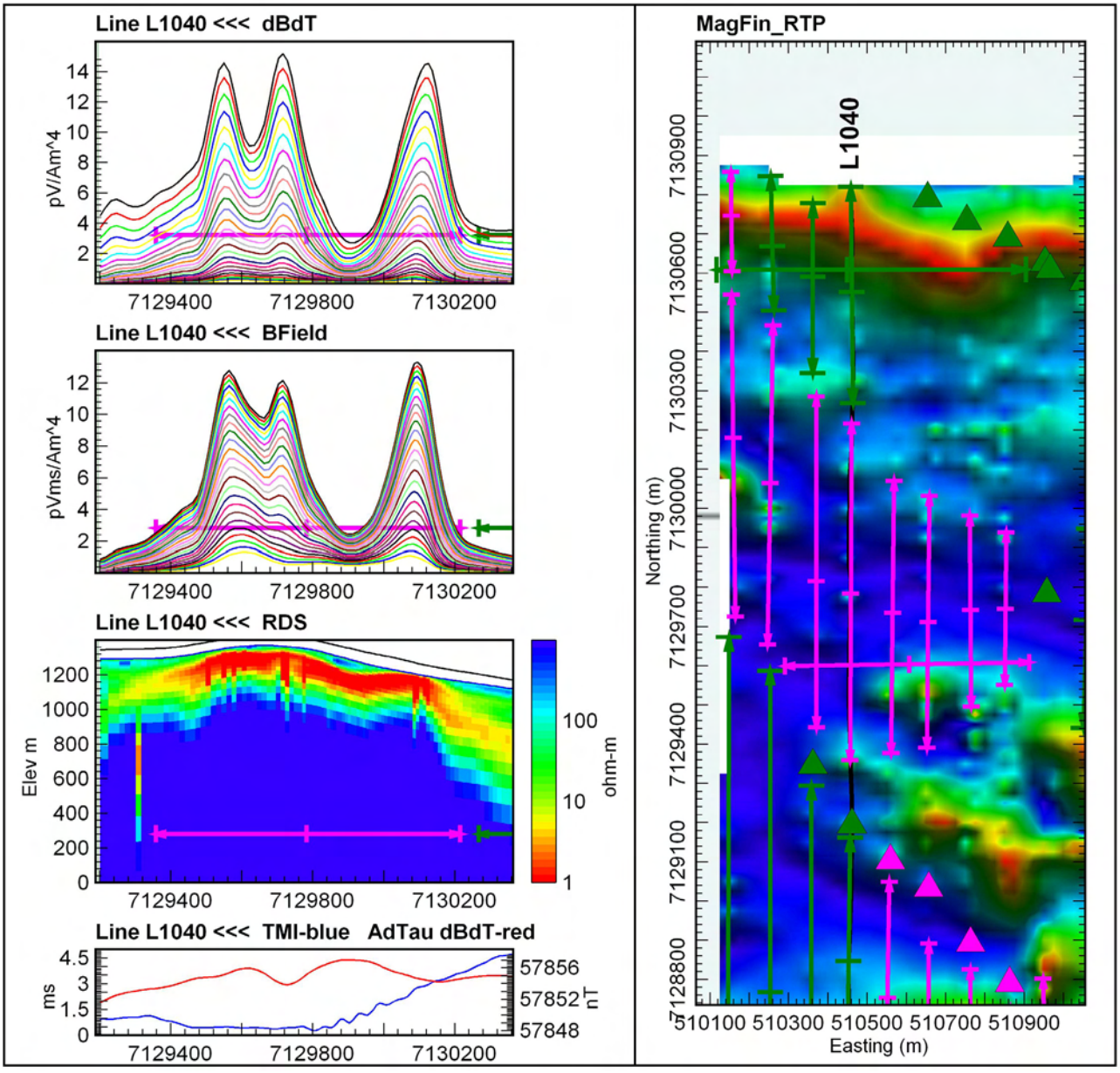
- Priority 2
- This zone is over 2 km long and open to the west of the survey area. It is comprised of strong-medium, wide, relatively flat-lying conductors.
- The edges of these conductors where they come close to surface or crop out are marked by DPR picks.
- At the east end of the TZ the interpreted dip is to the north. In the center of the TZ it appears to be flat-lying. In the west the dip is to the south.
- An example of the flat dip near the center of the TZ on Line 1090 is shown in the Figure below.
- In the west the conductor dips gently south for approximately 800 m and then appears to be folded into an antiform, as exhibited on Lines 1020-1040.
- The TZ has no clear correlation with magnetic trends.



TZ W: Representative flight line 1090 – profiles and RDS.

TZ X

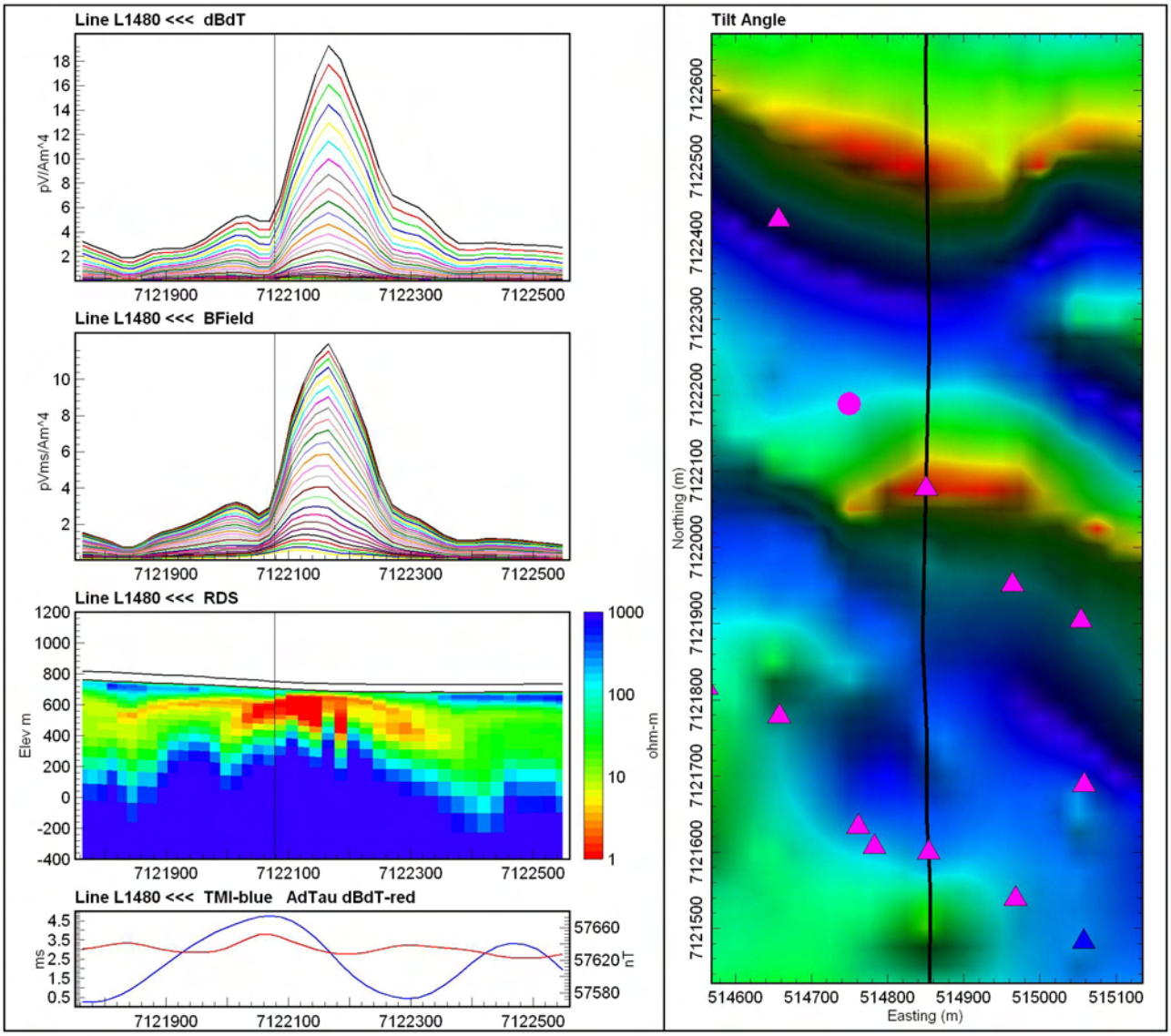
- Priority 3
- This zone of wide, flat-lying, near-surface conductors trends in a NW-SE direction and has dimensions of approximately 1 000 x 700 m. It is open to the west outside the survey area.
- An example for Line 1040 is shown in the Figure below.
- The wide, flat-lying conductors are relatively strong and it is unlikely that the VTEM is seeing through them.
- The area is mapped as Bouvette Fm, but these flat-lying conductors have characteristics similar to those observed in areas of Earn Group, so possibly this area has been mismapped.
- The conductors lie in an area of subdued magnetic intensity.



TZ X: Representative flight line 1040 – profiles and RDS.

TZ Y

- Priority 2
- This zone of multiple strong-weak DPR and SPR, near-surface conductors trends in a NW-SE direction and has dimensions of approximately 4 000 x 800 m.
- Two sub-parallel, general conductor trends are evident within this TZ. The northern trend appears to dip steep north. An example for Line 1480 is shown in the Figure below. The southern trend appears to generally dip steep south.
- The area is mapped as Keno Hills Quartzite.
- Some conductors correlate with discrete magnetic highs, but others show no particular magnetic correlation.

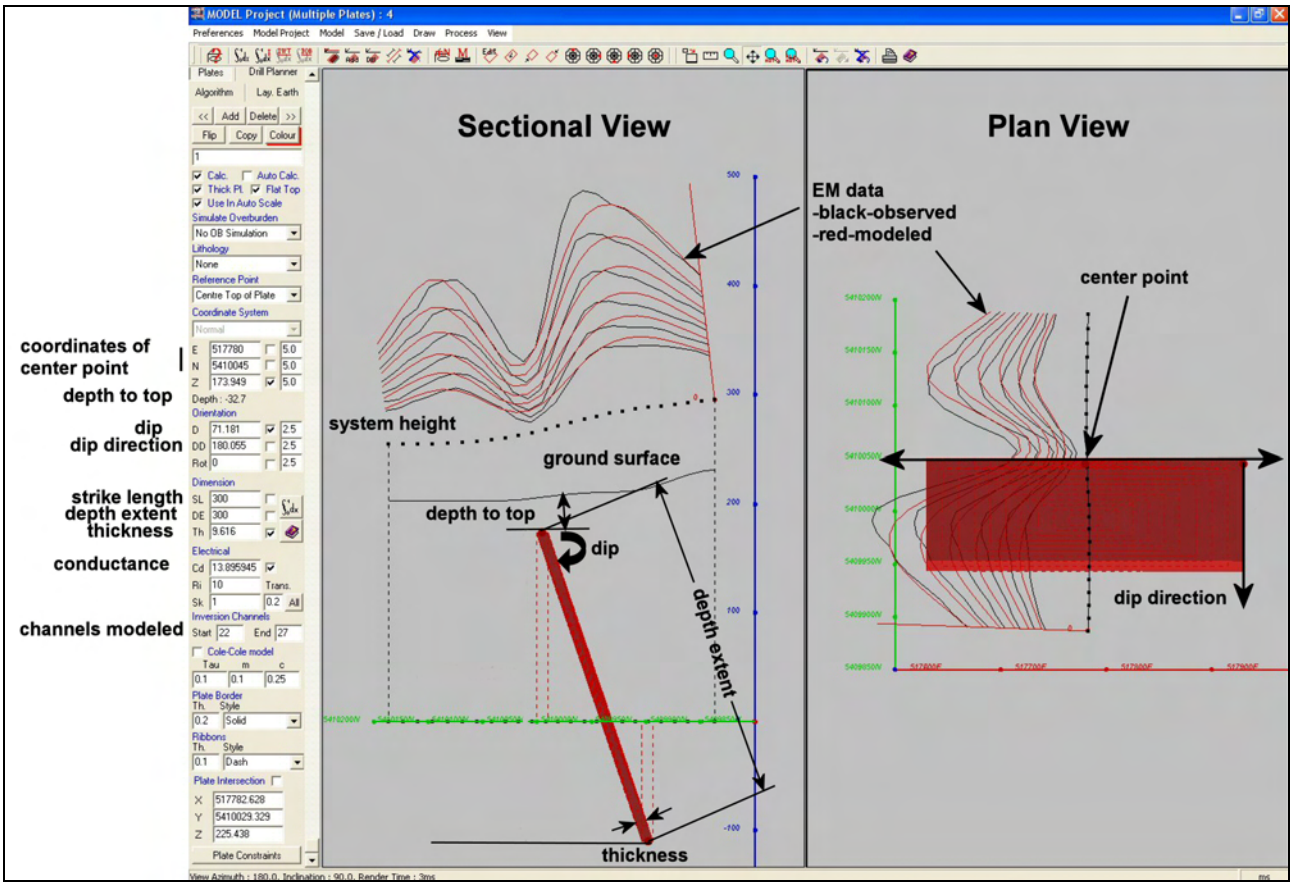


TZ Y: Representative flight line 1480 – profiles and RDS.

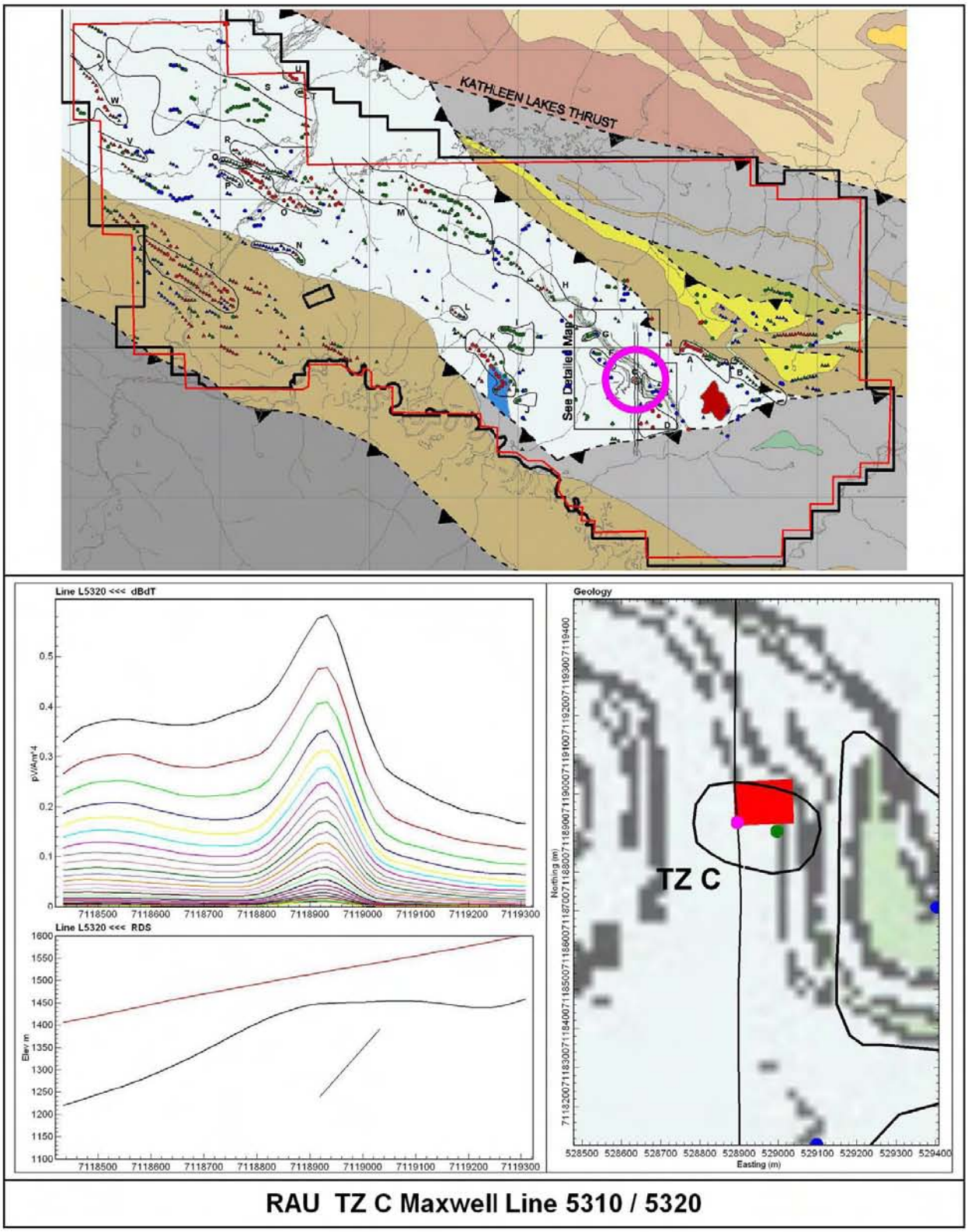
APPENDIX C: MAXWELL MODELS

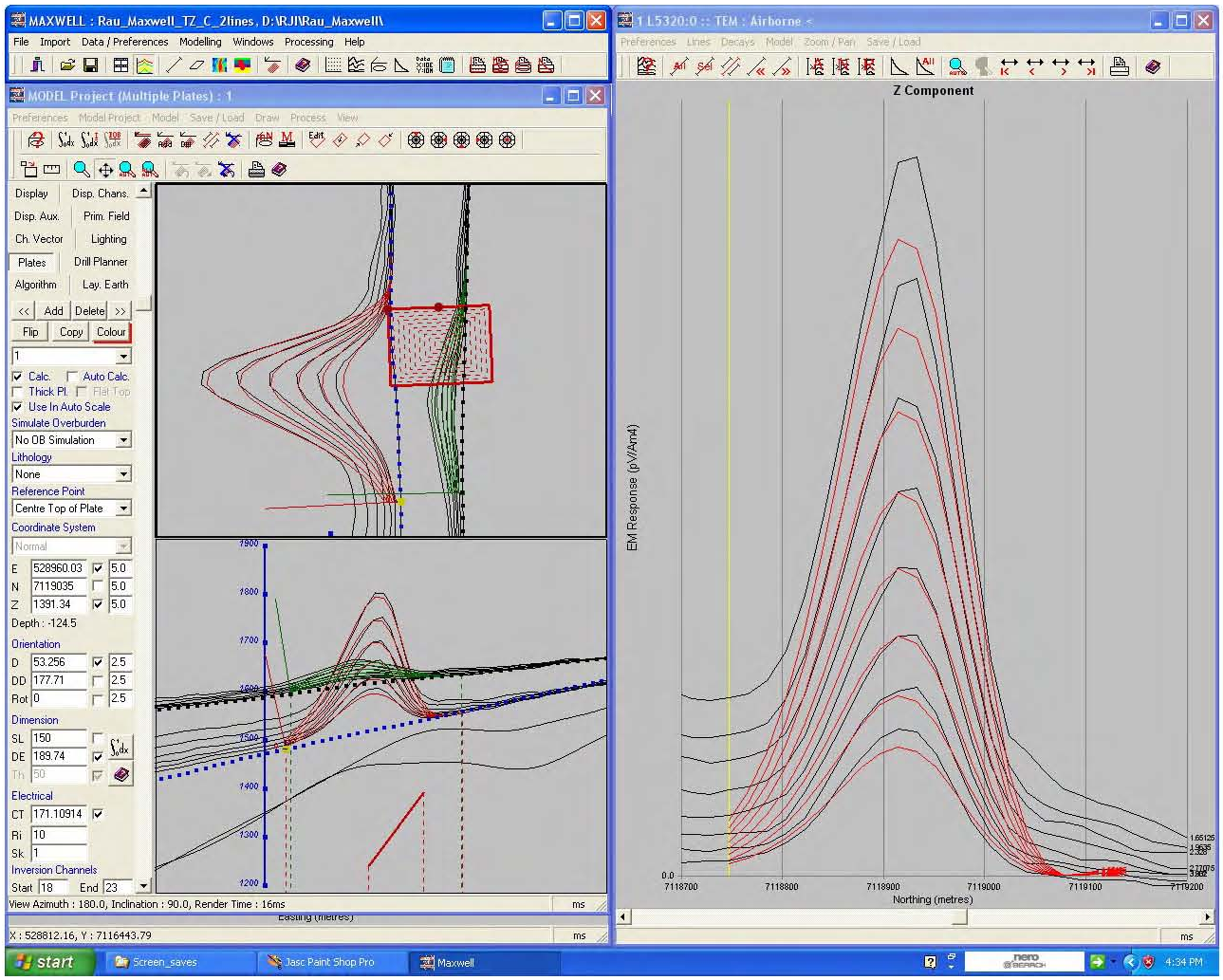
Rau – Maxwell modeling summary

TZ	Line	Number of Plates	Plate numbers
C	5310 / 5320	1	1
F	4170	1	2
F	4130	1	3
H	2671	2	4,5
H	2641	1	6
H	2600	2	7,8
H	2570	1	9
H	2490	1	10
H	2450	2	11,12
H	2400	2	13,14
K	2440	2	15,16
K	2400 south	2	17,18
K	2350	2	19,20
M	2190	2	21,22
M	2170	3	23,24,25
O	1800	1	26
O	1740 south	1	27
O, Q and R	1580	4	28,29,30,31
O and R	1620	2	32,33
R	1640	1	34
T	1780	1	35
U	1740	1	36
Y	1480	1	37
Y	1450	1	38
Y	1300	2	39,40
Y	1250	1	41

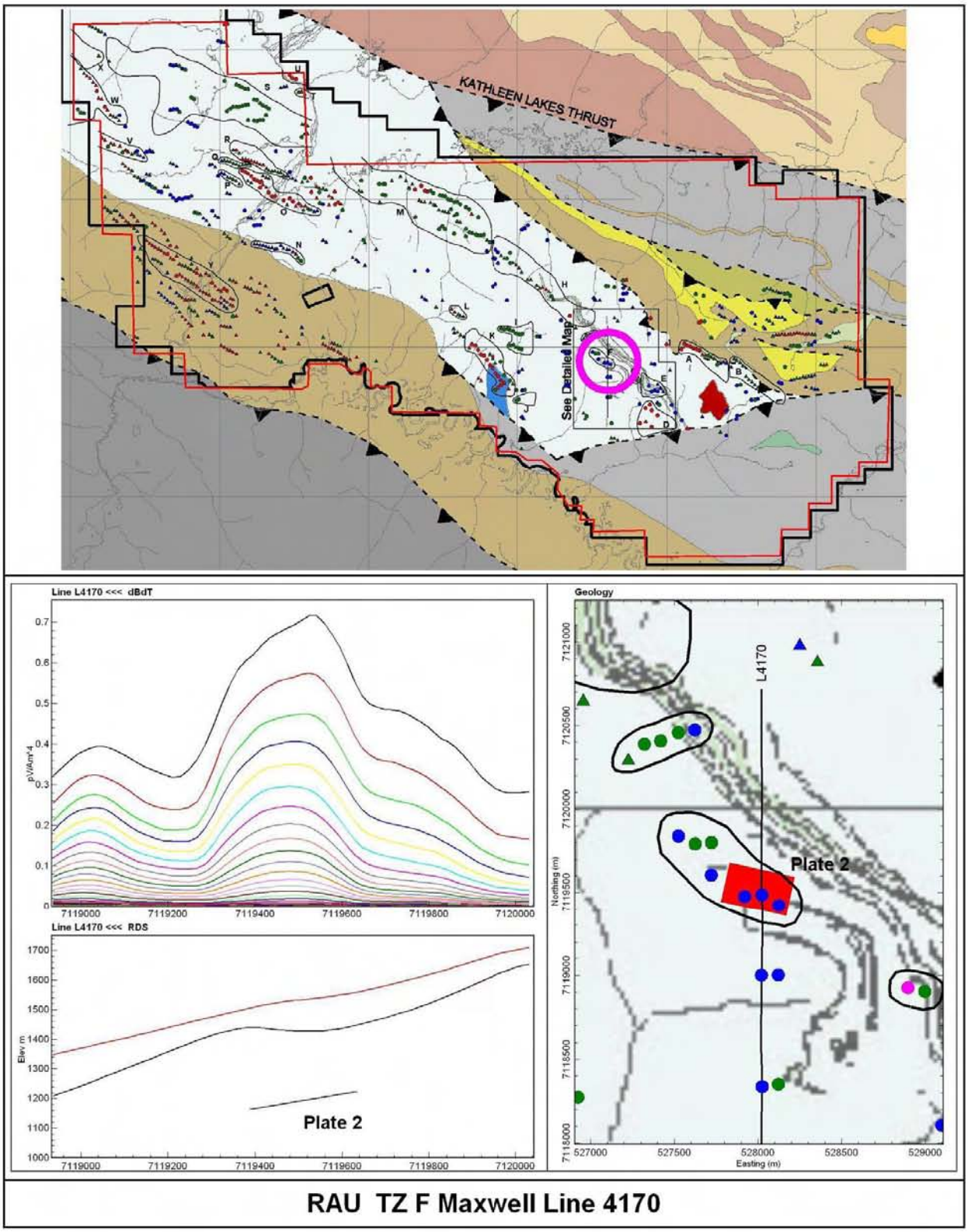


Explanation of parameters specified in the Maxwell modelling

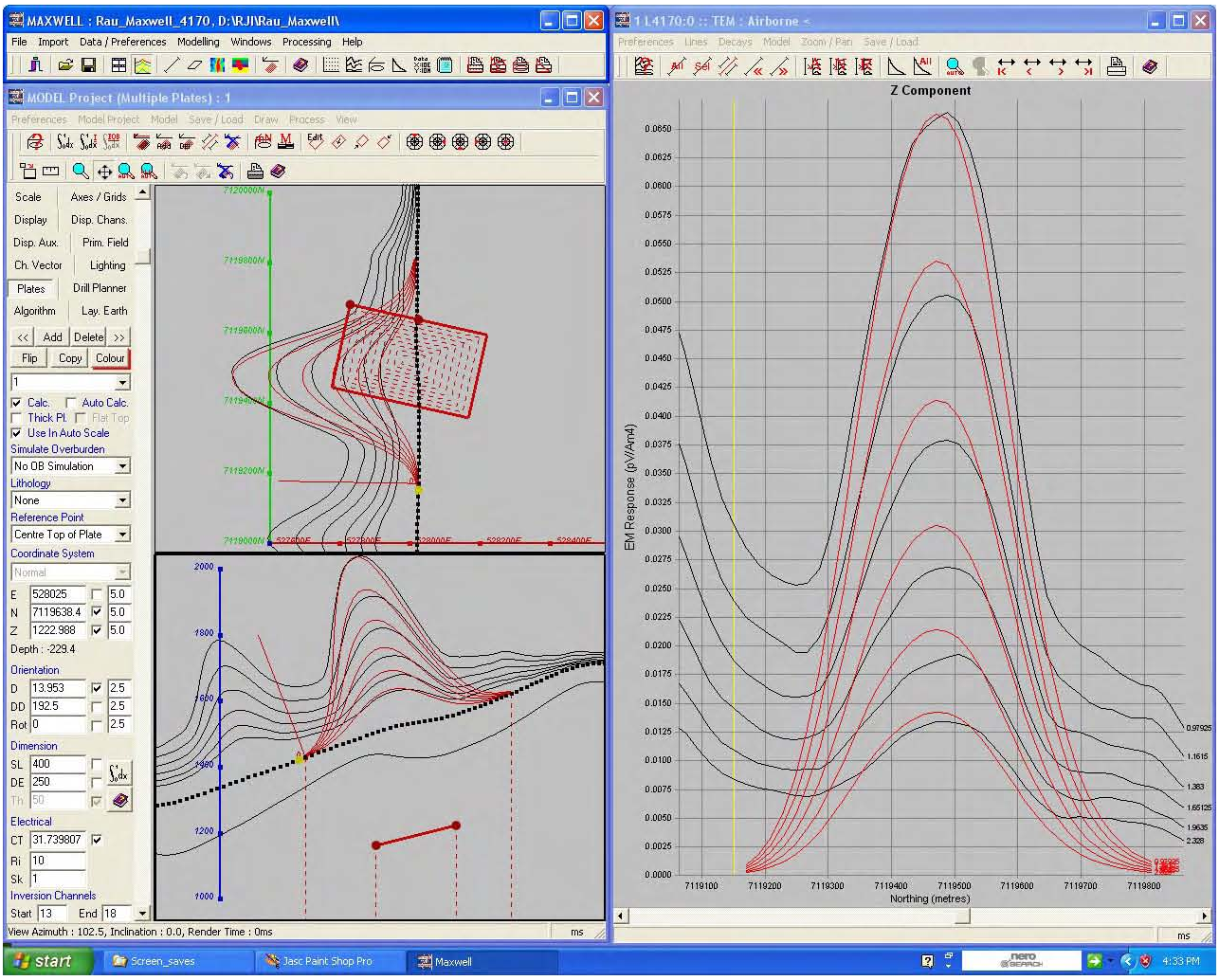

KATHLEEN LAKES THRUST
See Detailed Map
Line L5320 <<< dBdT
pV/Am^4
Line L5320 <<< RDS
Elev m
Geology
TZ C
Northing (m)
Easting (m)
RAU TZ C Maxwell Line 5310 / 5320



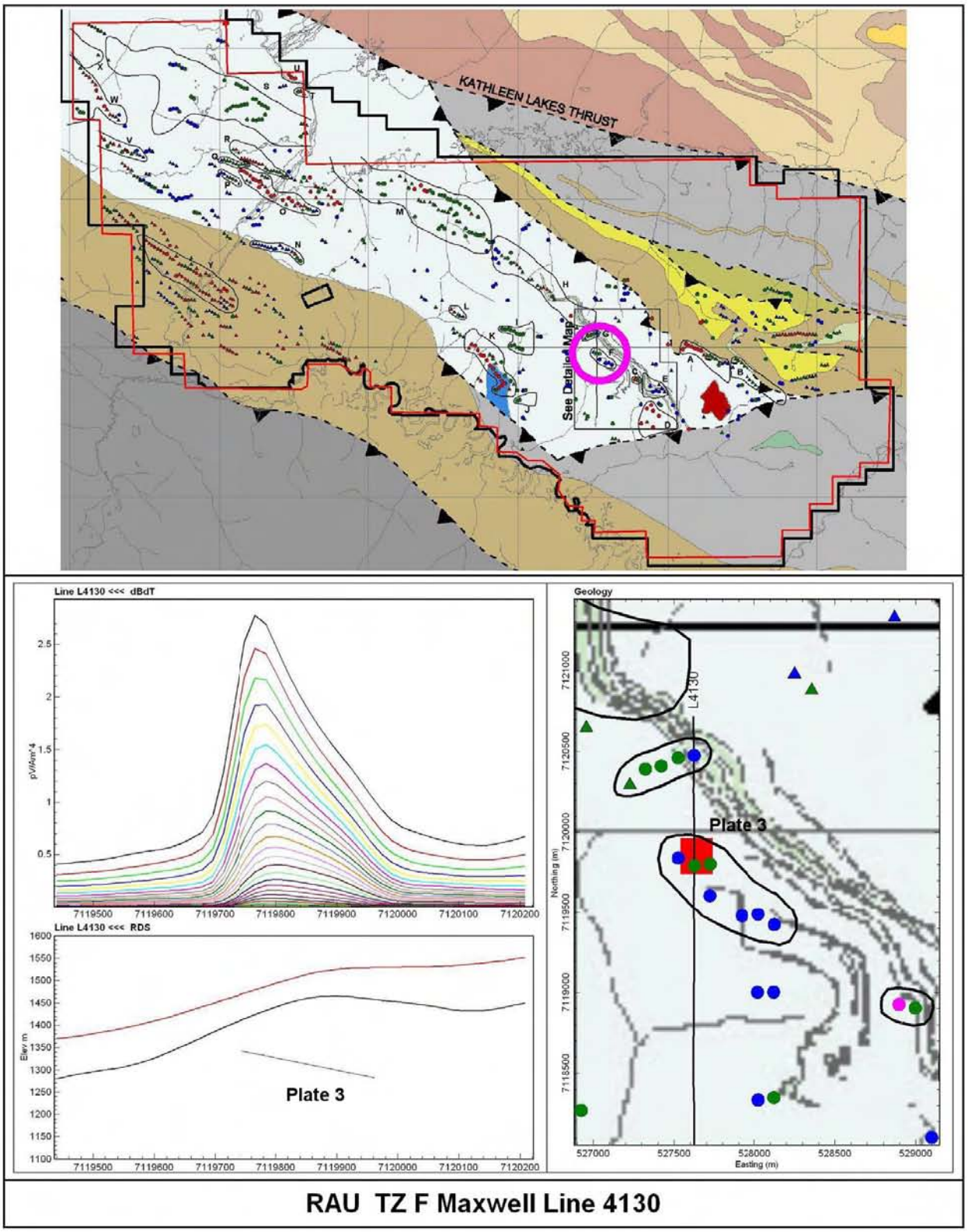
Rau: TZ C, Lines 5310 / 5320 Maxwell modeling.

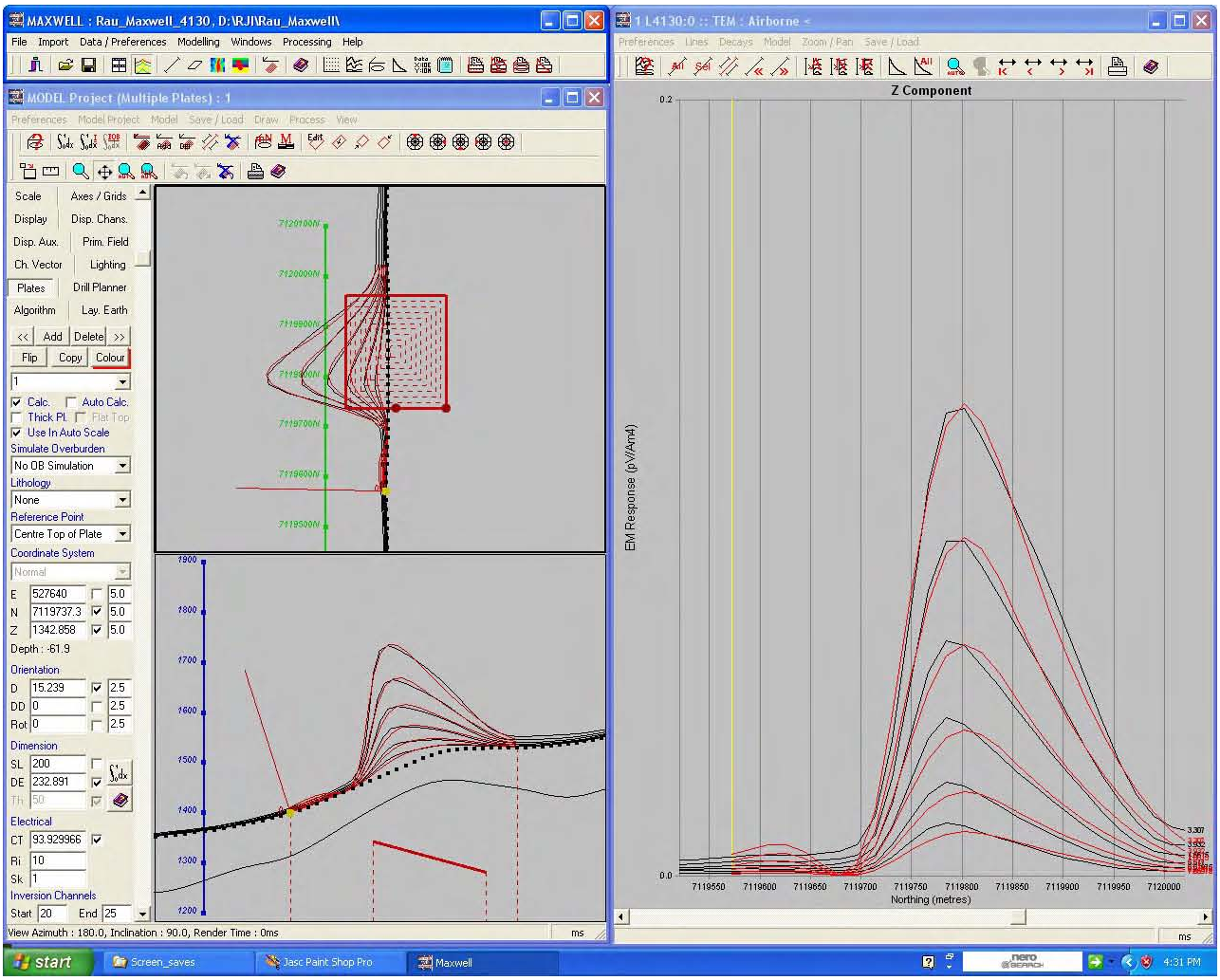


RAU TZ F Maxwell Line 4170

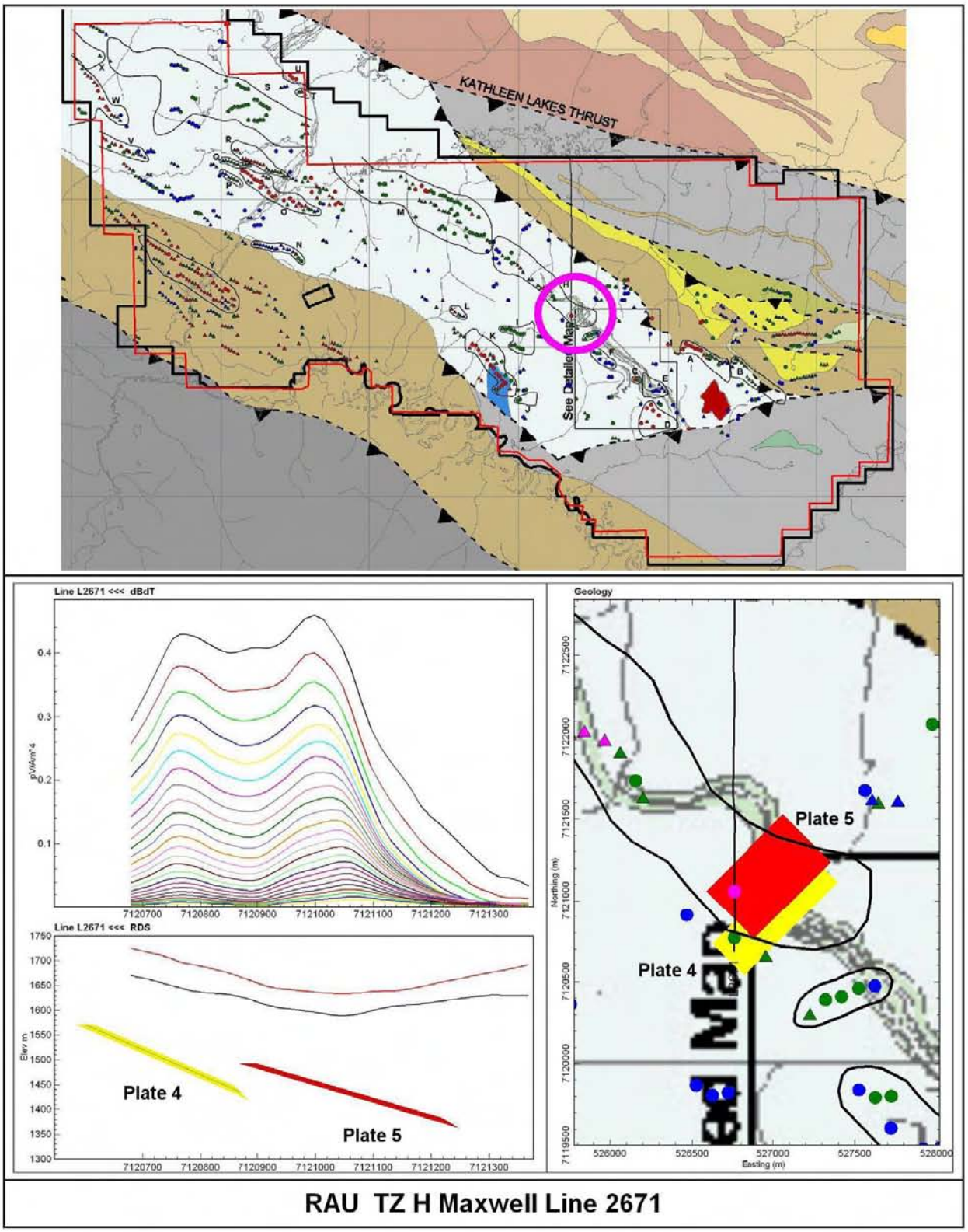


Rau: TZ F, Line 4170 Maxwell modeling.

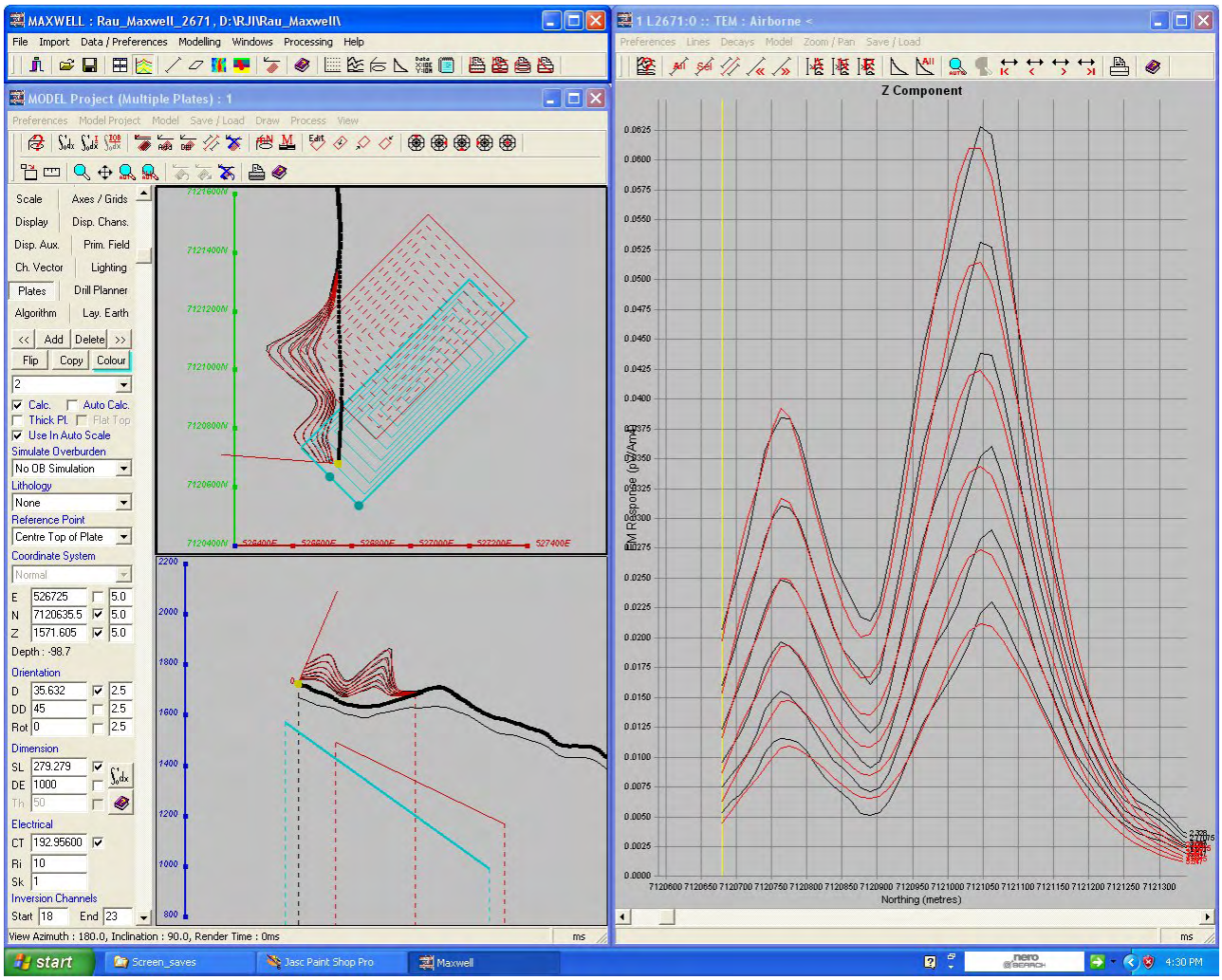

KATHLEEN LAKES THRUST
See Detailed Map
Line L4130 <<< dBdT
pV/Am^4
Line L4130 <<< RDS
Elev m
Plate 3
Geology
L4130
Plate 3
Northing (m)
Easting (m)
RAU TZ F Maxwell Line 4130



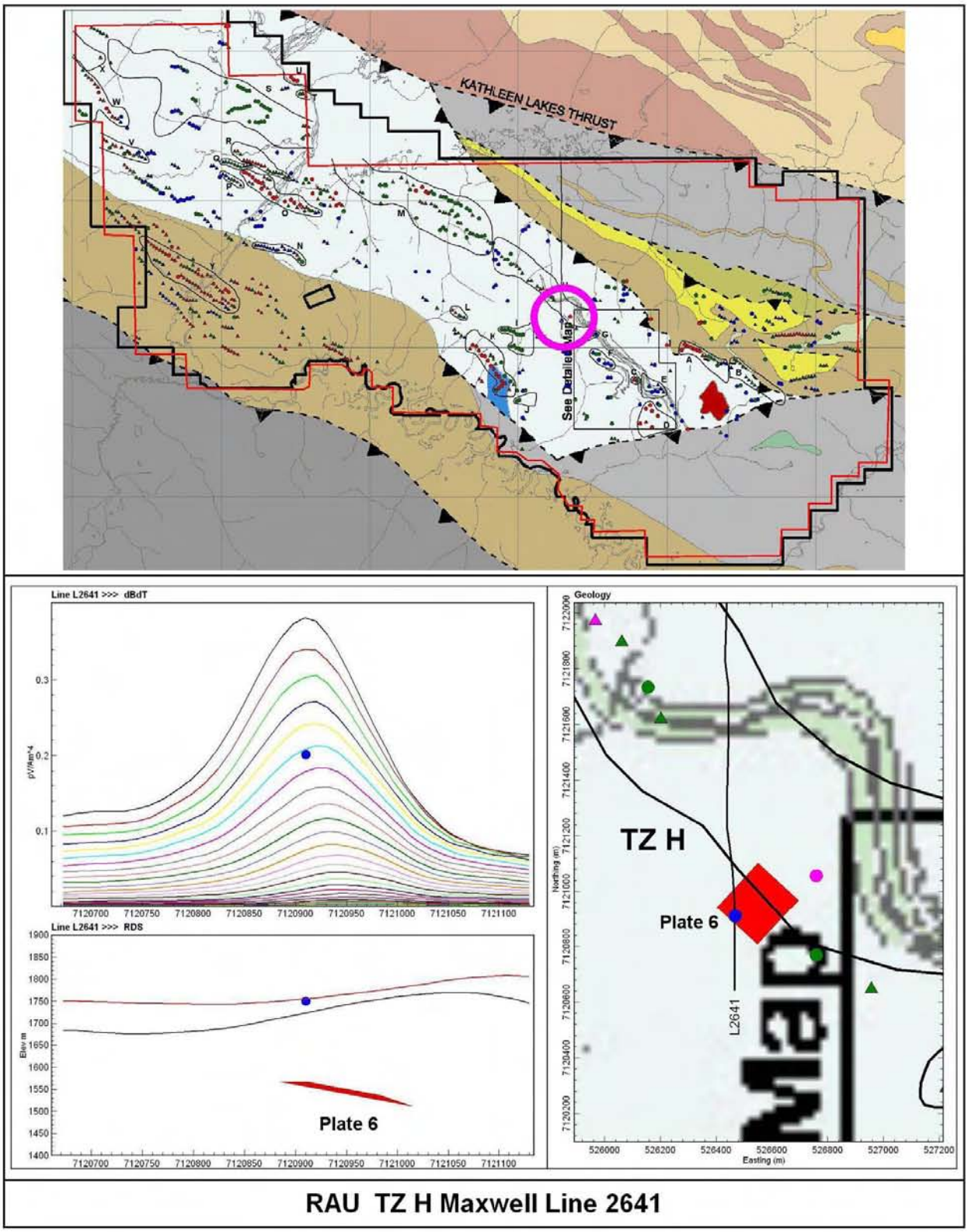
Rau: TZ F, Line 4130 Maxwell modeling.

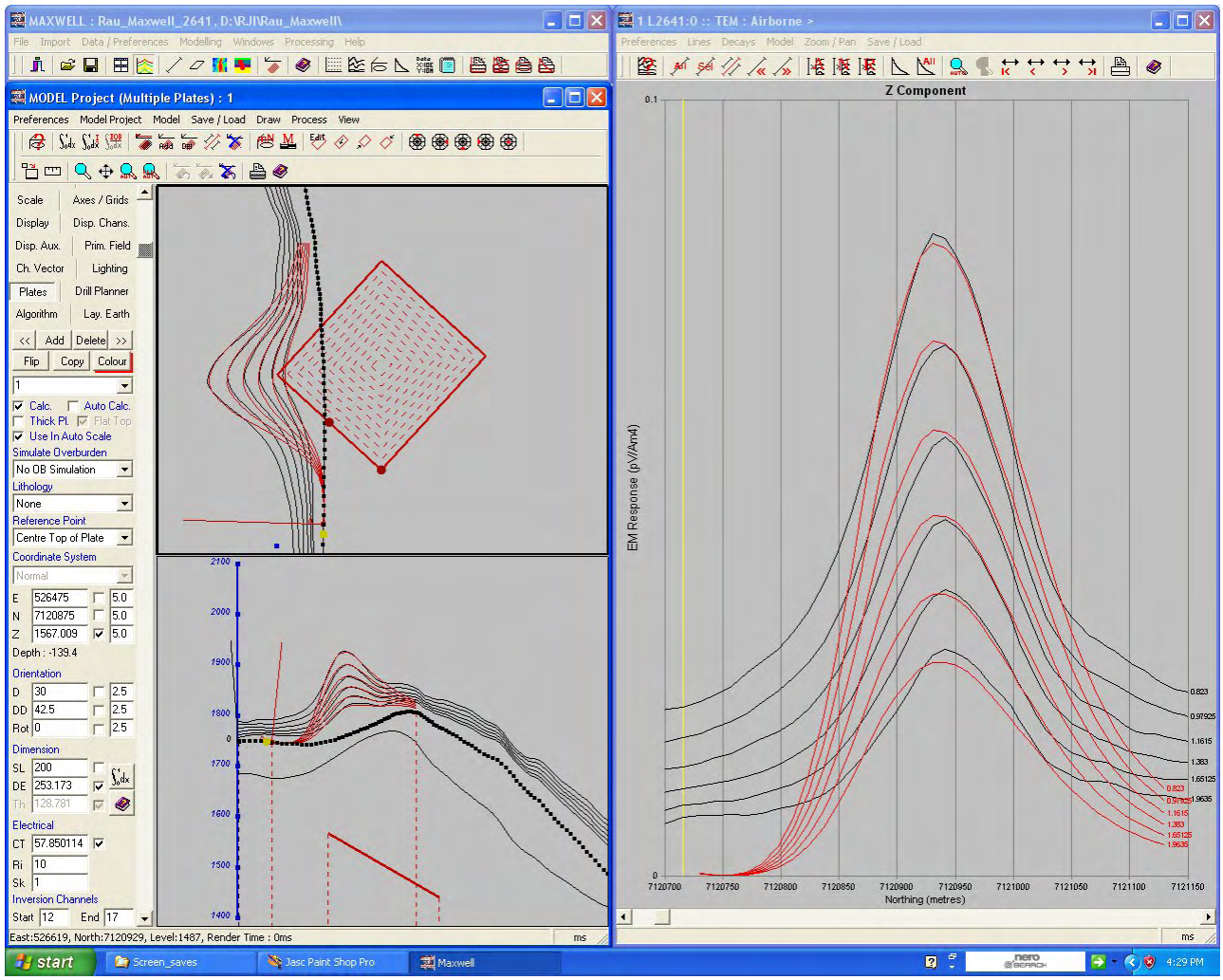


RAU TZ H Maxwell Line 2671

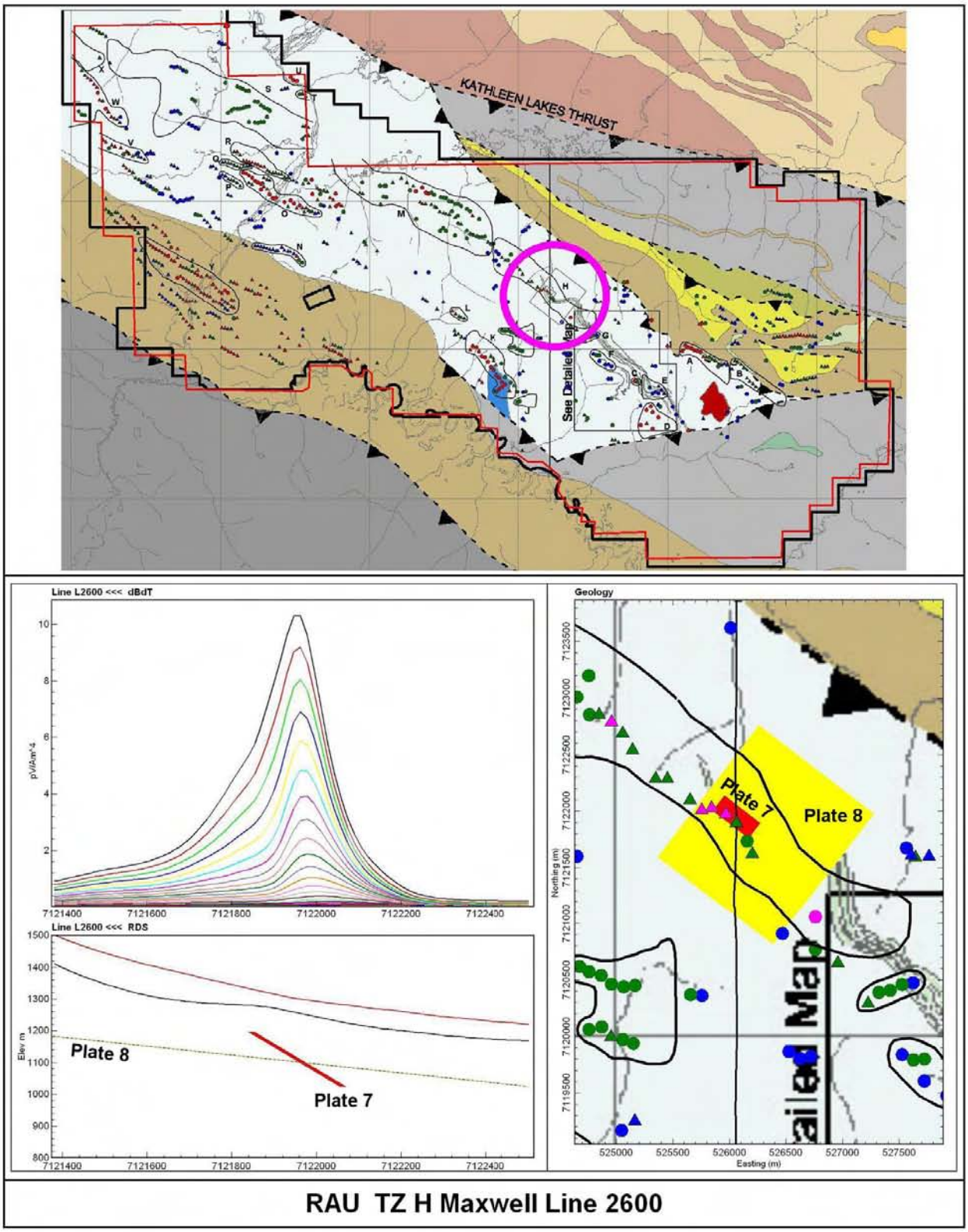


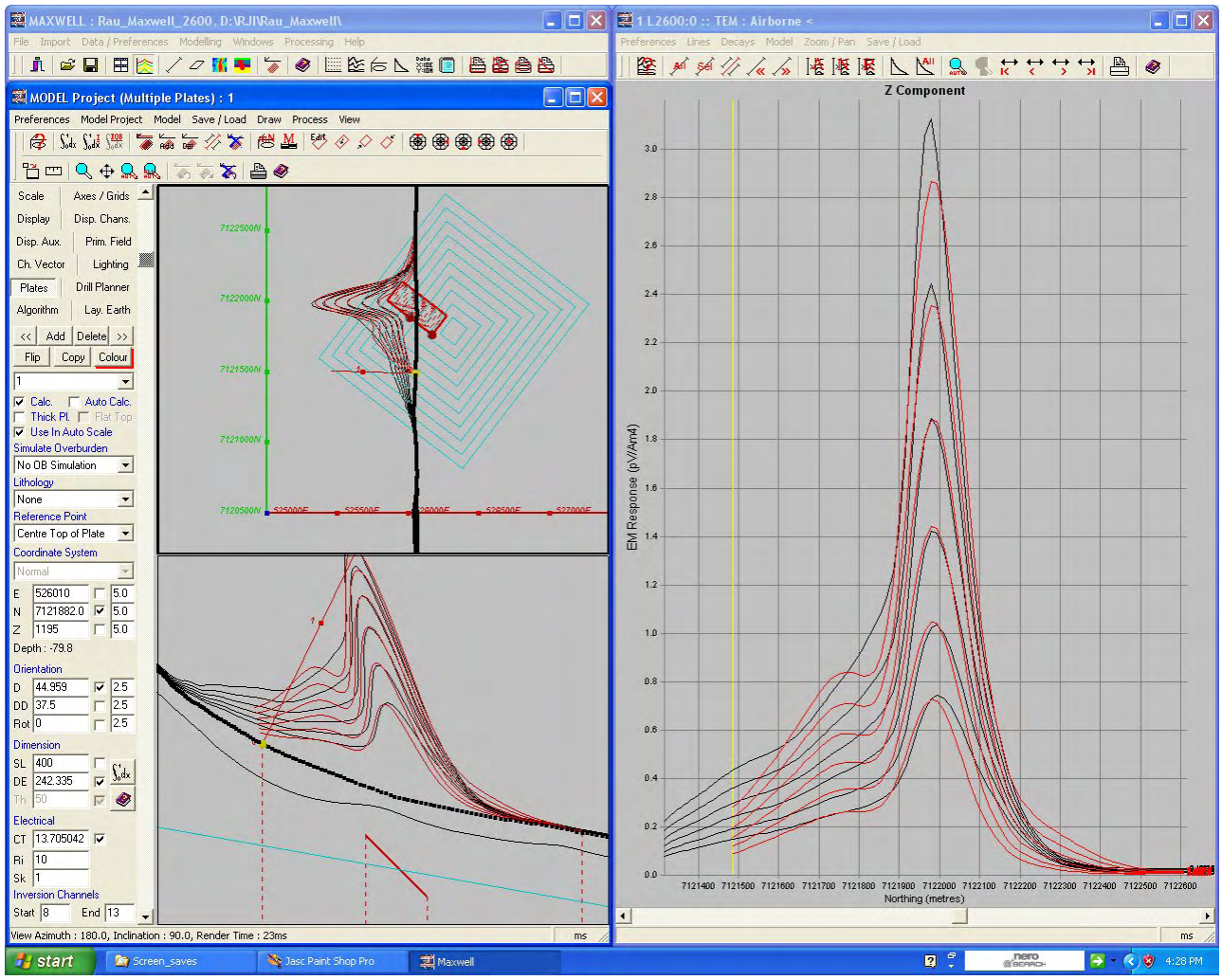
Rau: TZ H, Line 2671 Maxwell modeling.


KATHLEEN LAKES THRUST
See Detailed Map
Line L2641 >>> dBdT
pV/Am^4
Line L2641 >>> RDS
Elev m
Plate 6
Geology
TZ H
Plate 6
L2641
Northing (m)
Easting (m)
RAU TZ H Maxwell Line 2641

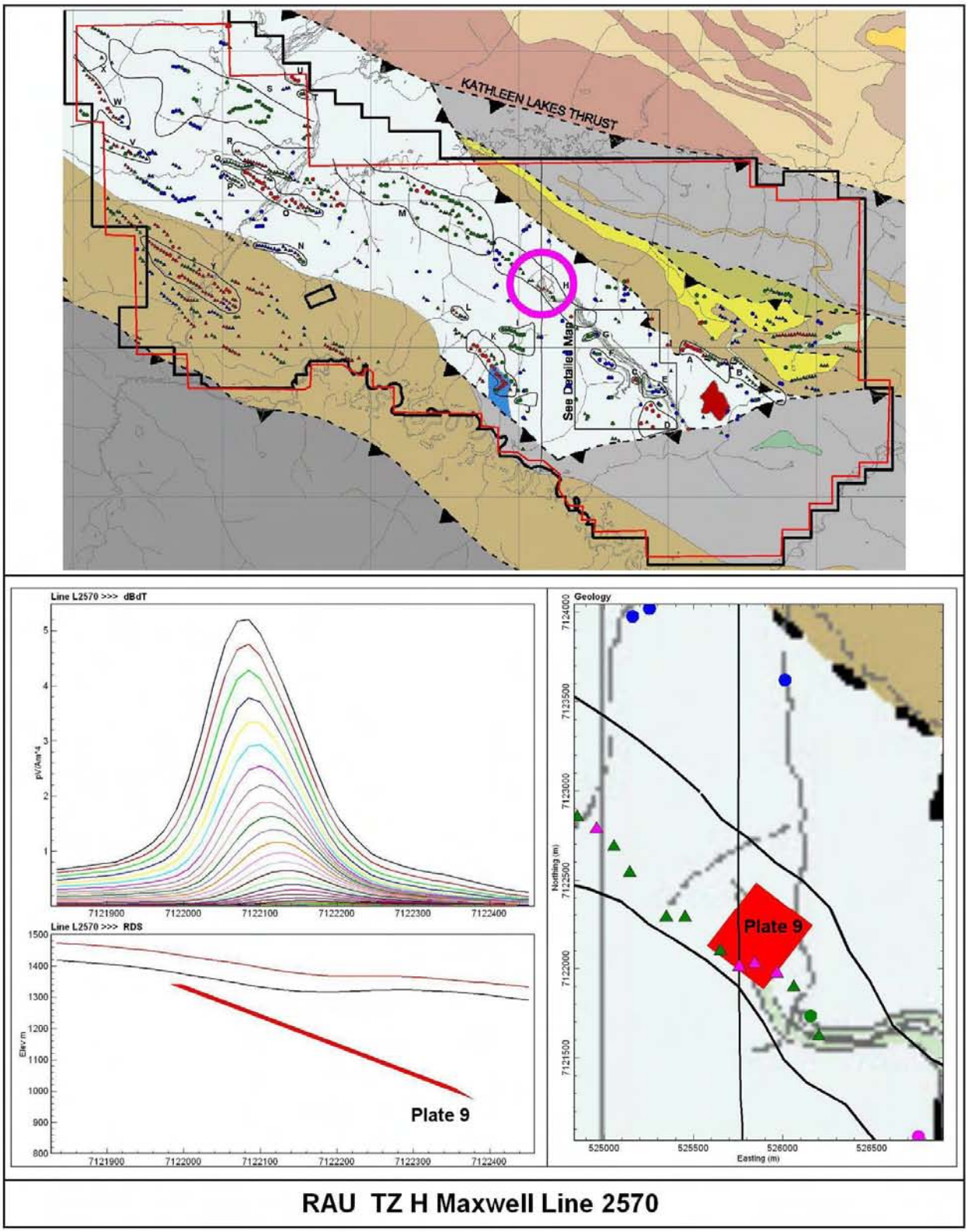


Rau: TZ H, Line 2641 Maxwell modeling.

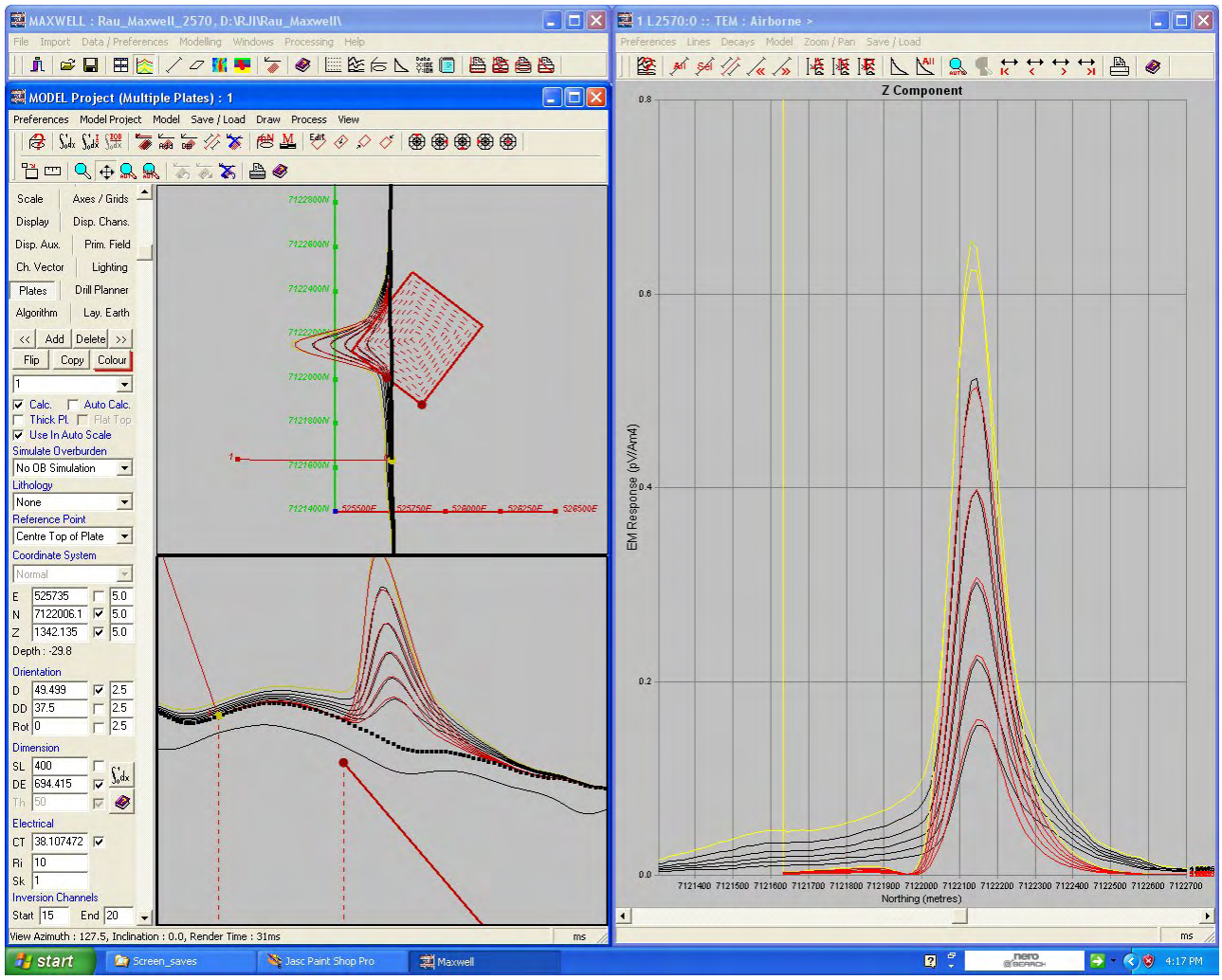

KATHLEEN LAKES THRUST
See Detailed Map
Line L2600 <<< dBdT
pV/Am^4
Line L2600 <<< RDS
Elev m
Plate 8
Plate 7
Geology
Northing (m)
Easting (m)
Plate 7
Plate 8
RAU TZ H Maxwell Line 2600



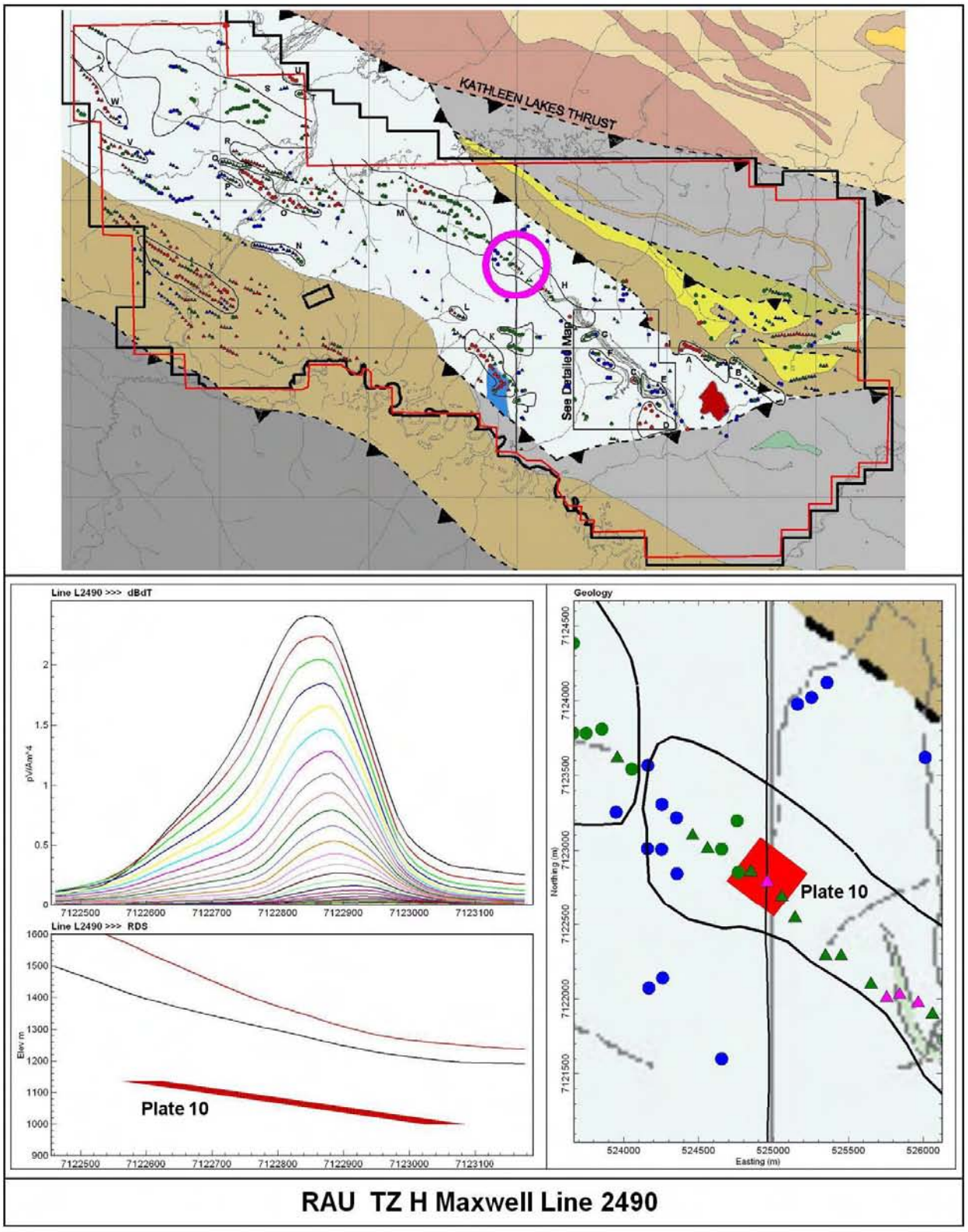
Rau: TZ H, Line 2600 Maxwell modeling.



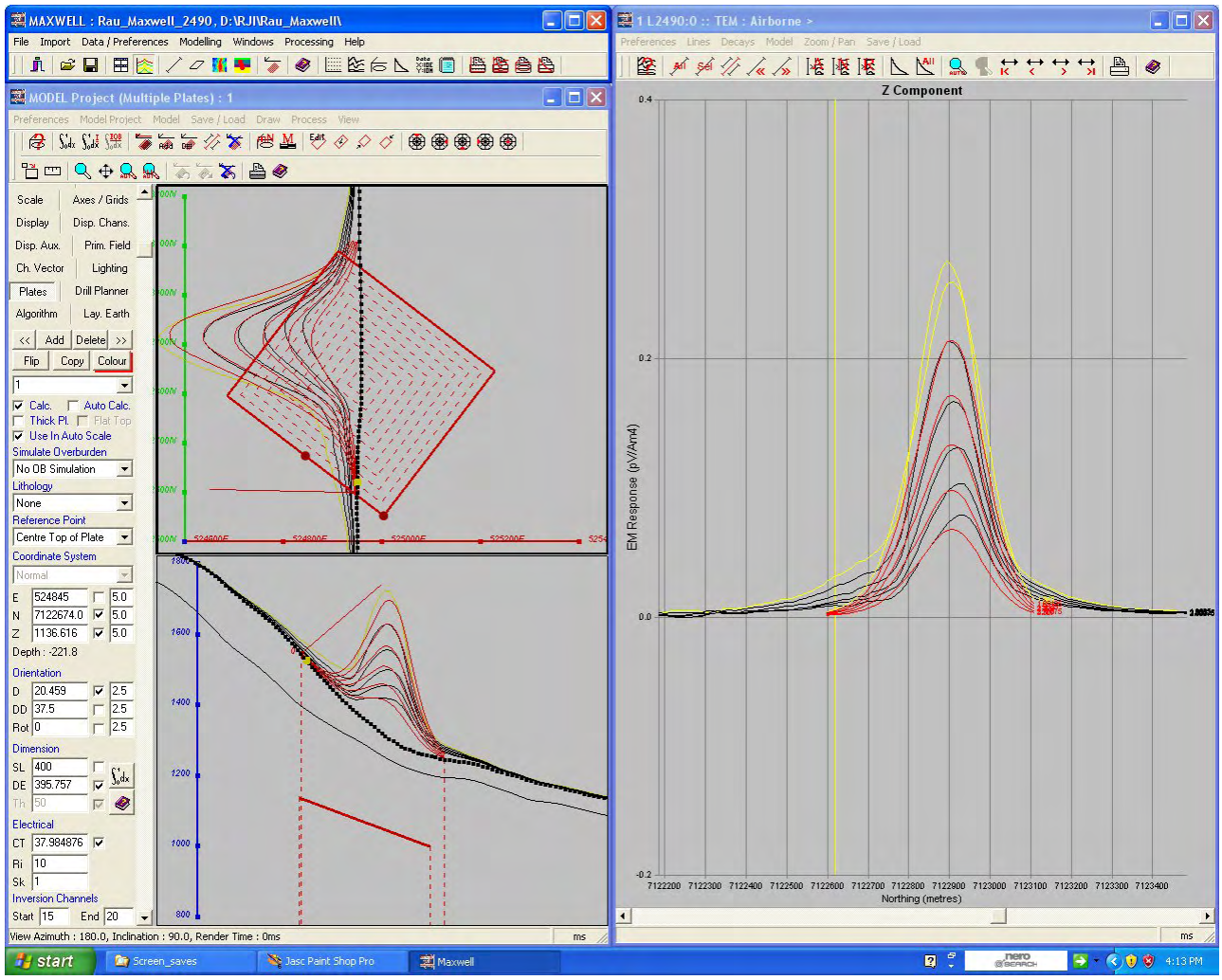
RAU TZ H Maxwell Line 2570



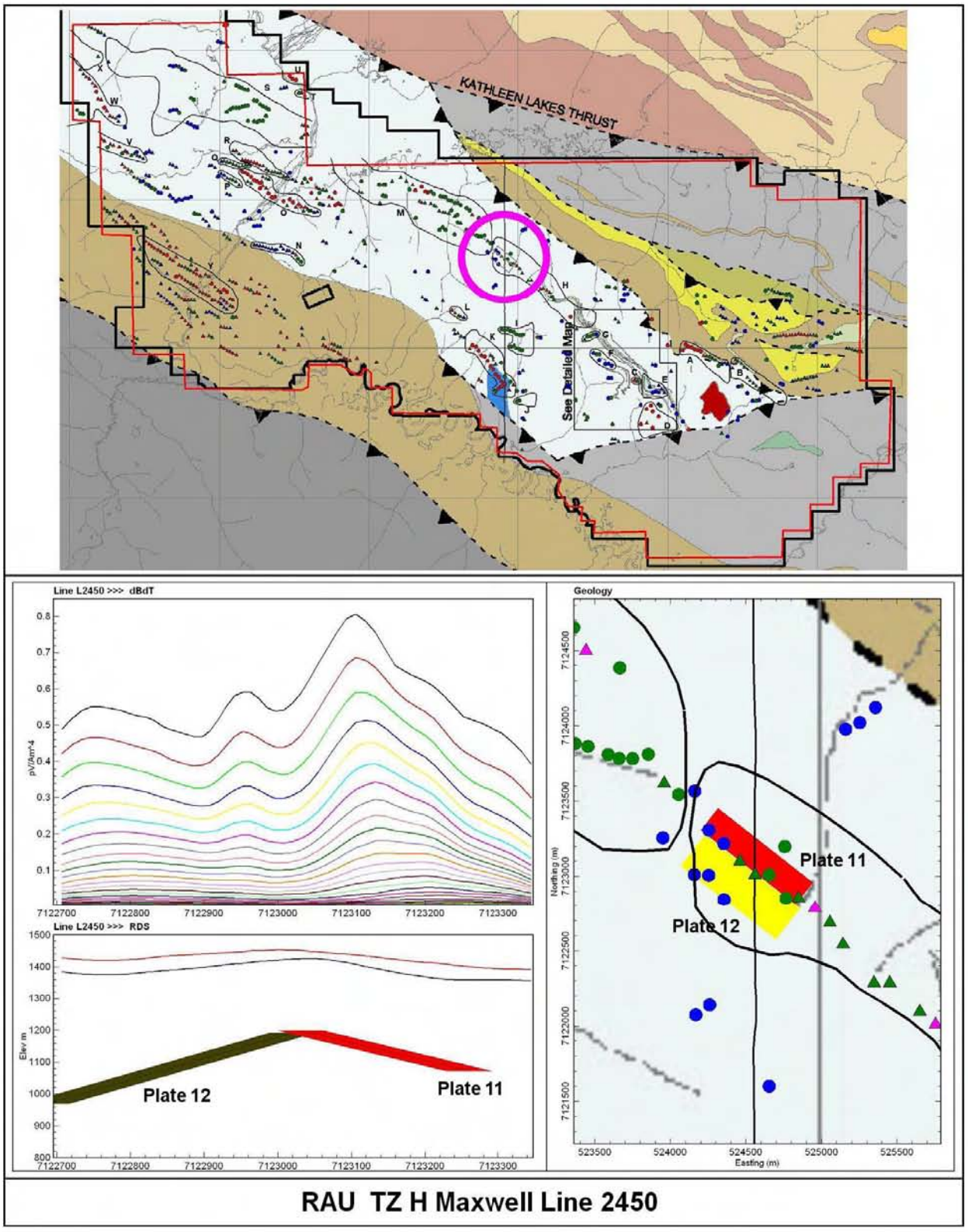
Rau: TZ H, Line 2570 Maxwell modeling.



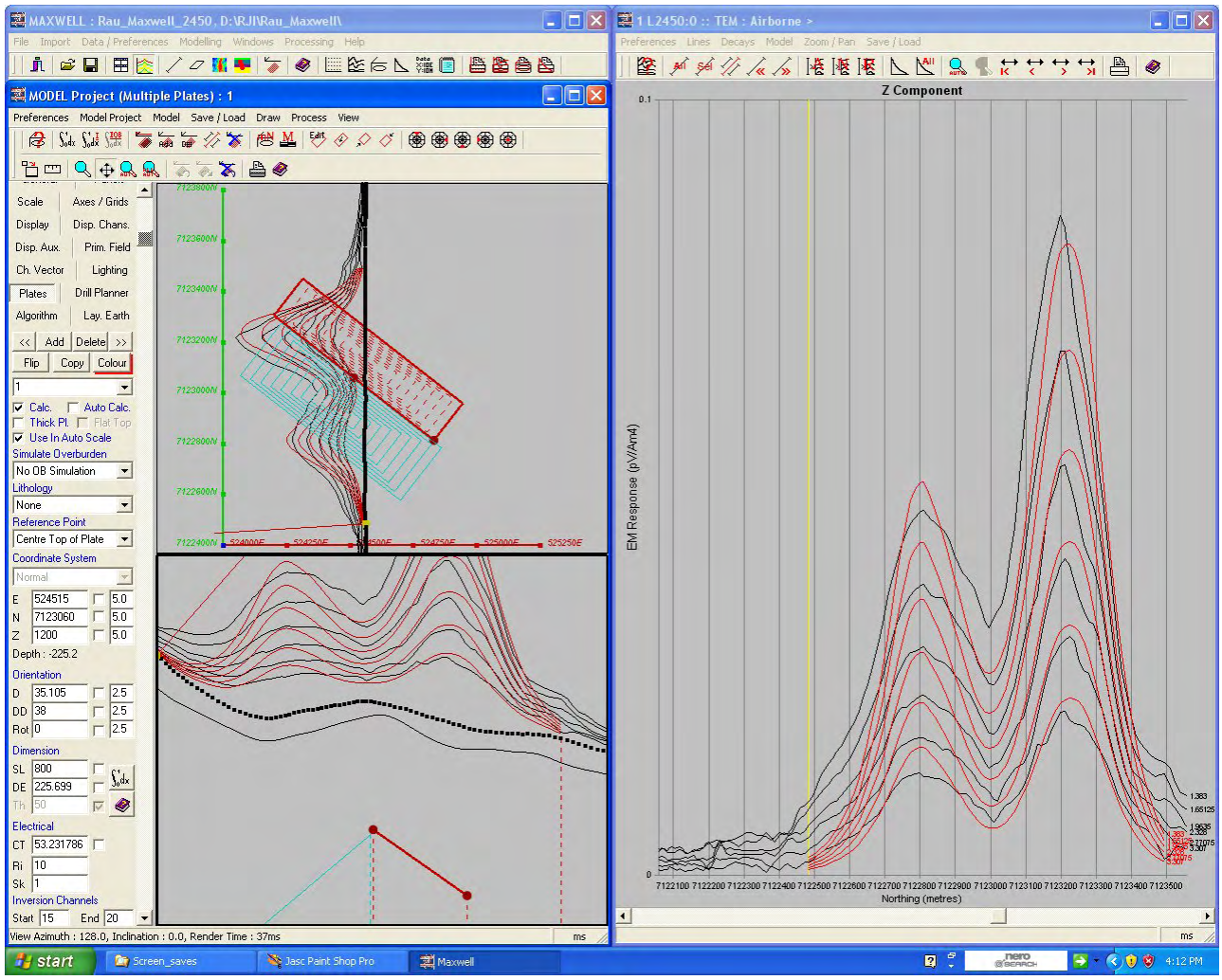
RAU TZ H Maxwell Line 2490



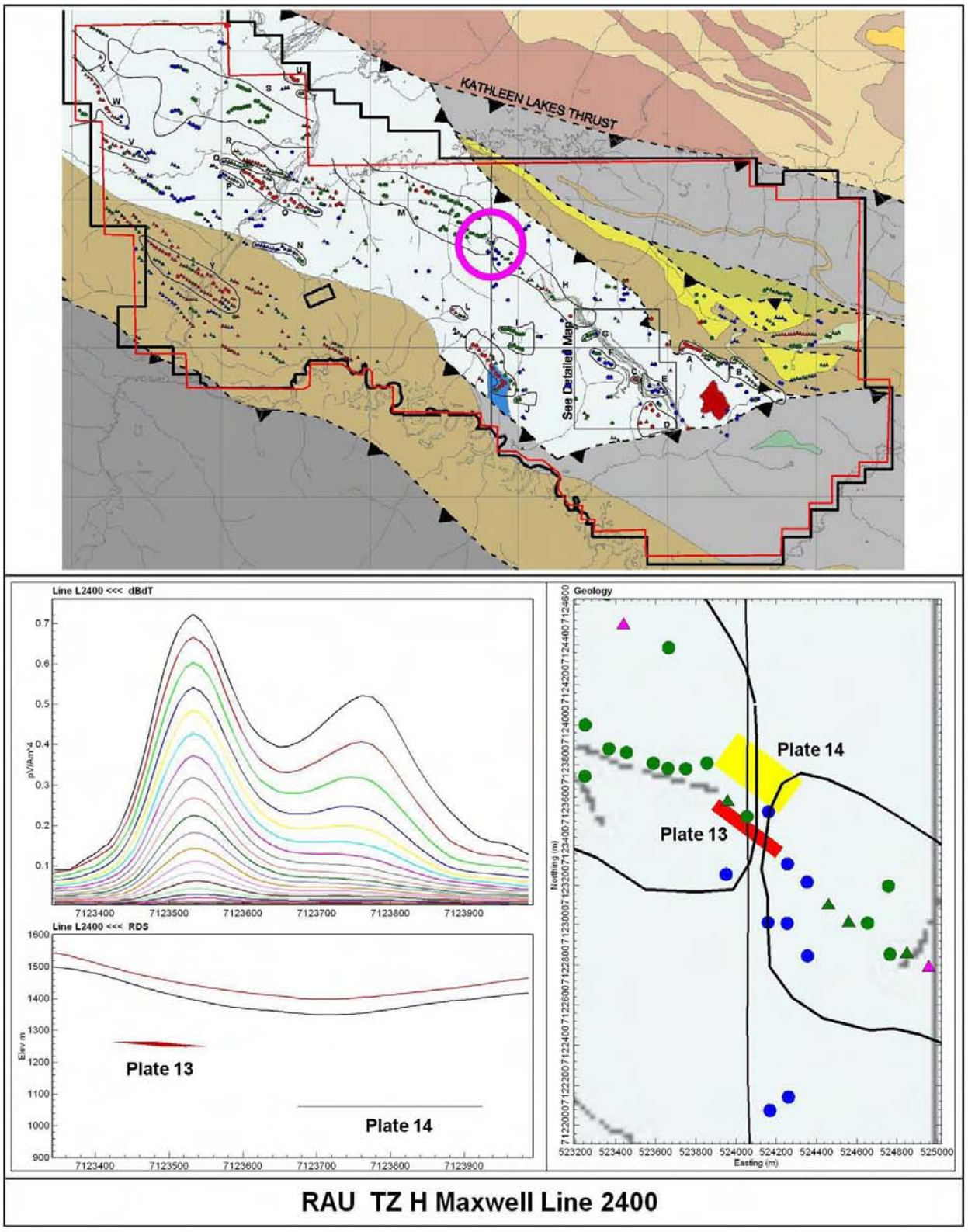
Rau: TZ H, Line 2490 Maxwell modeling.



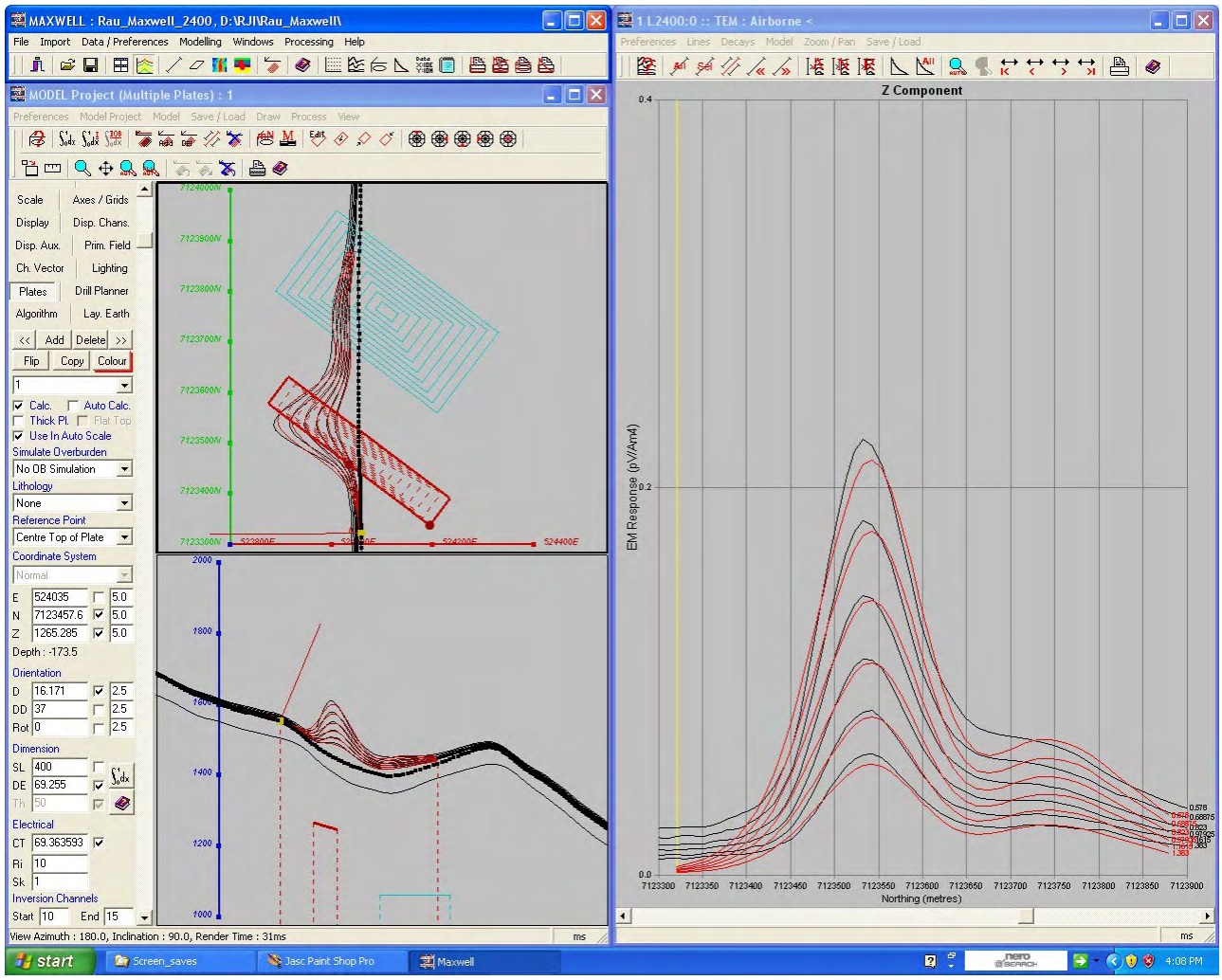
RAU TZ H Maxwell Line 2450



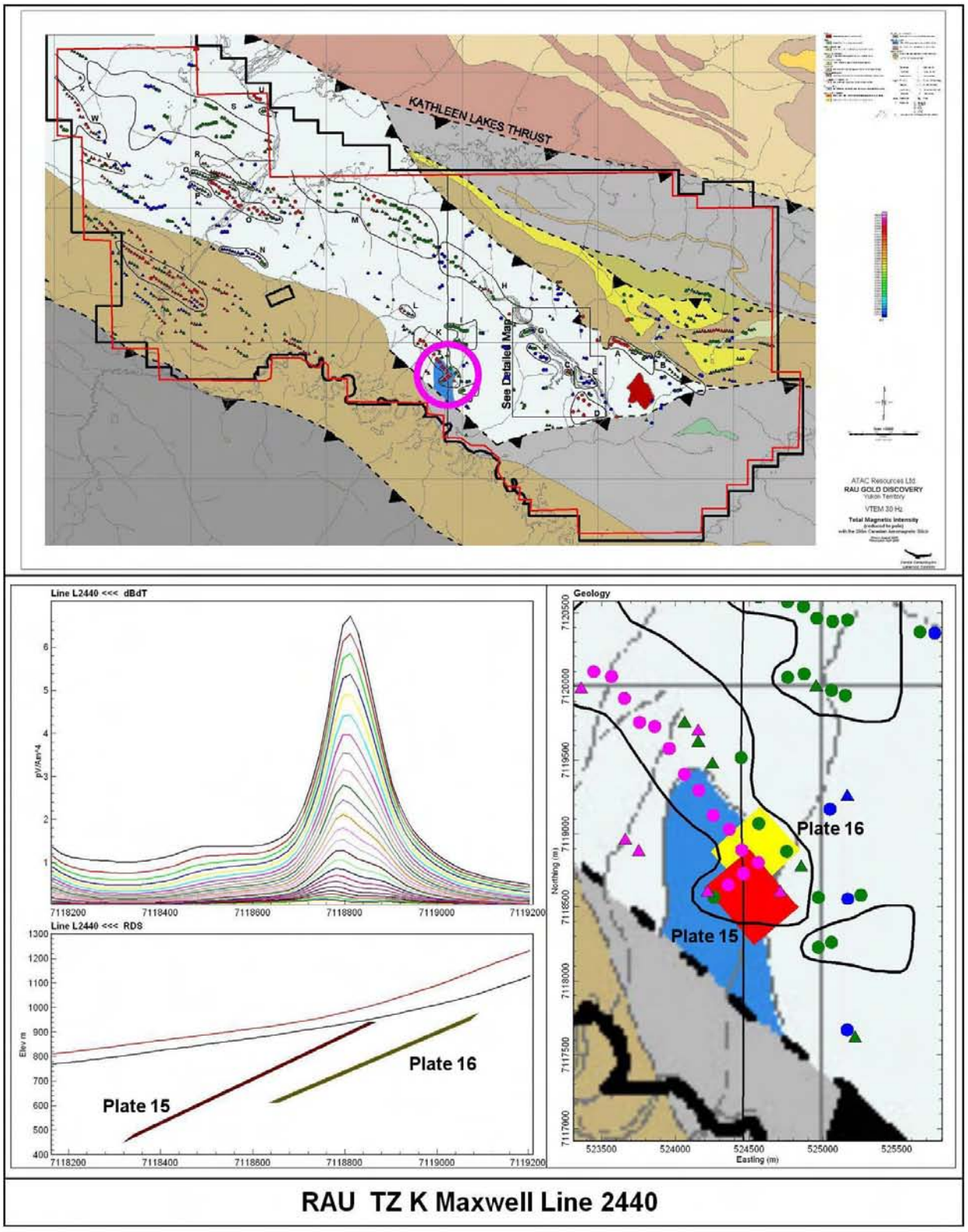
Rau: TZ H, Line 2450 Maxwell modeling.



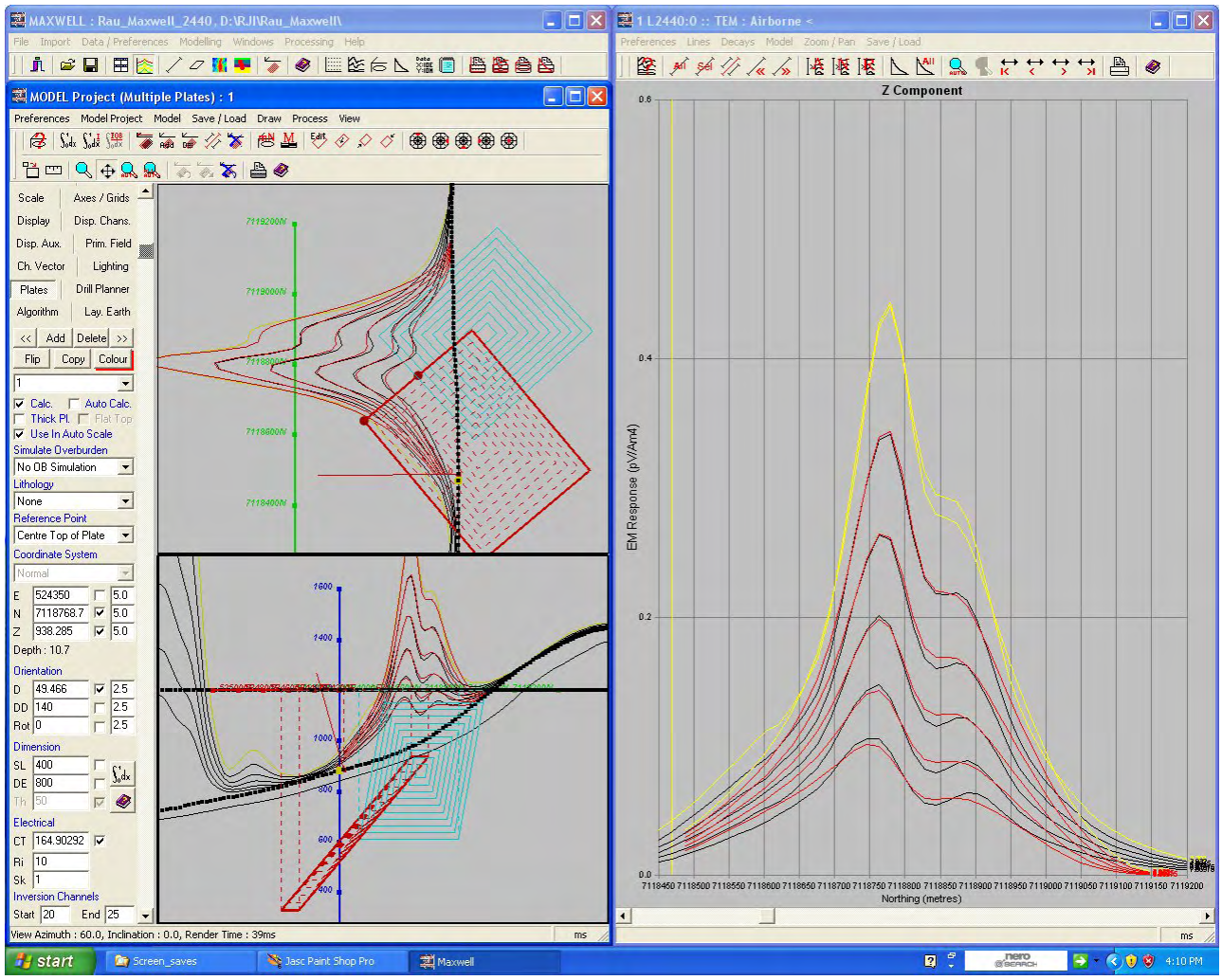
RAU TZ H Maxwell Line 2400



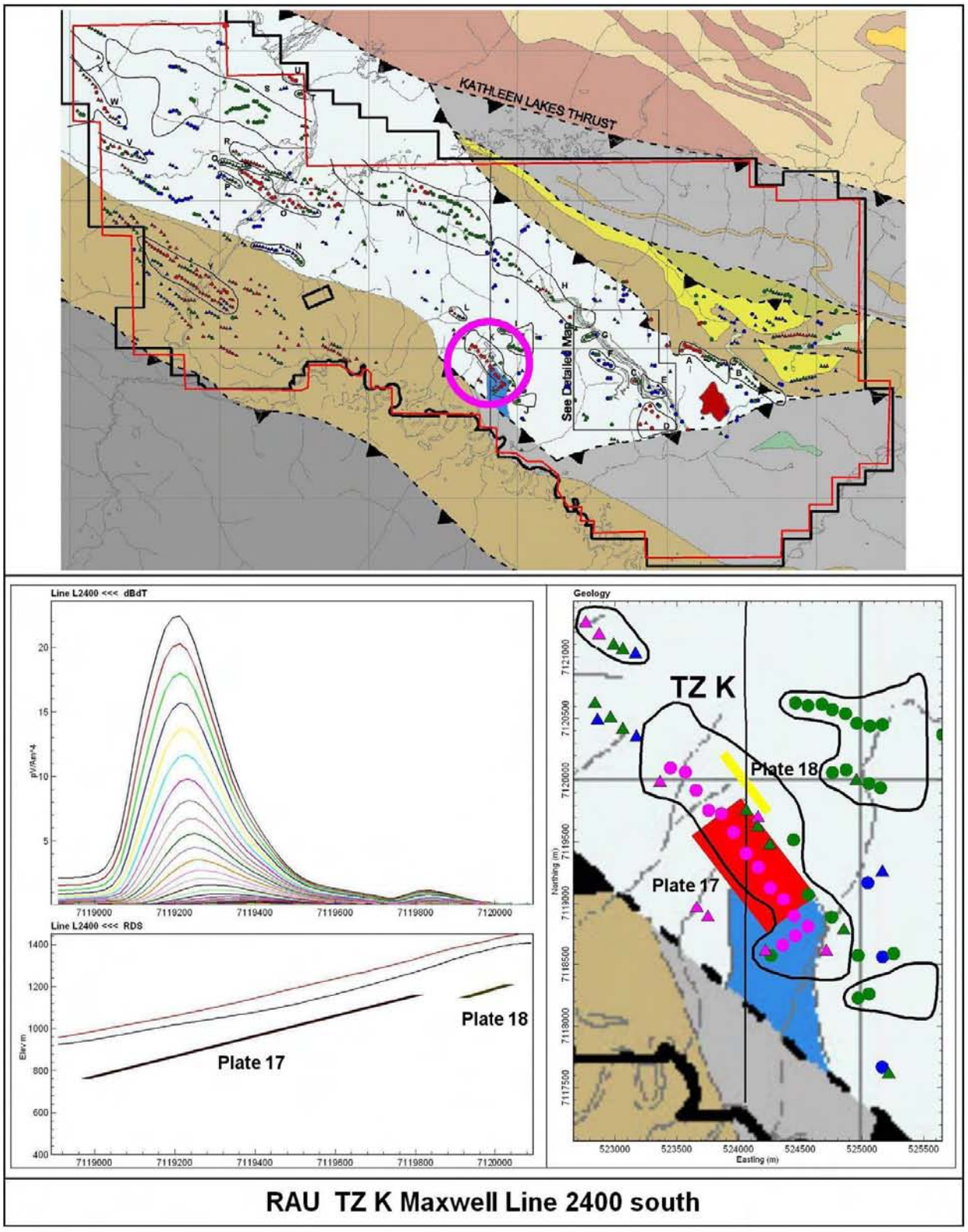
Rau: TZ H, Line 2400 Maxwell modeling.



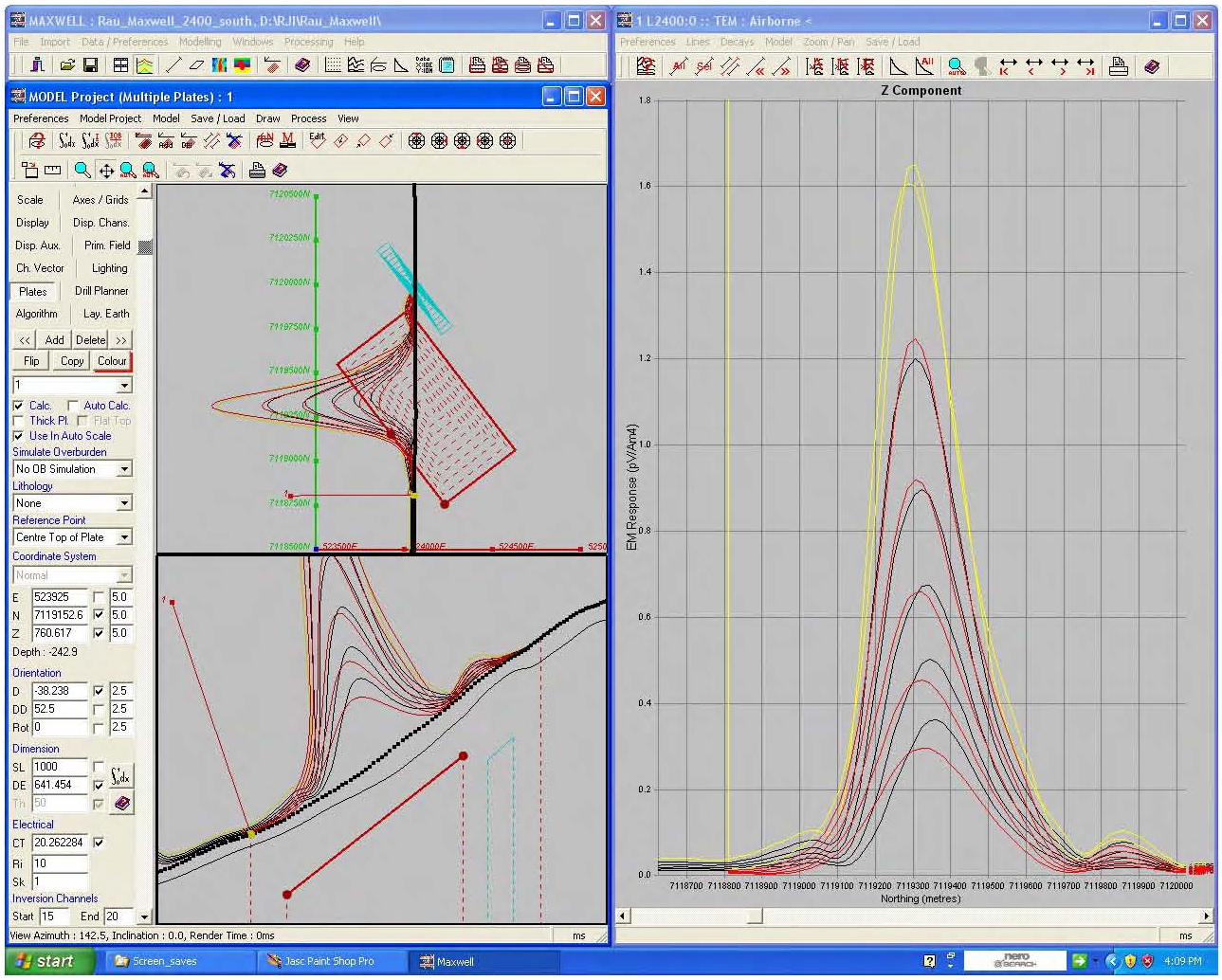
RAU TZ K Maxwell Line 2440



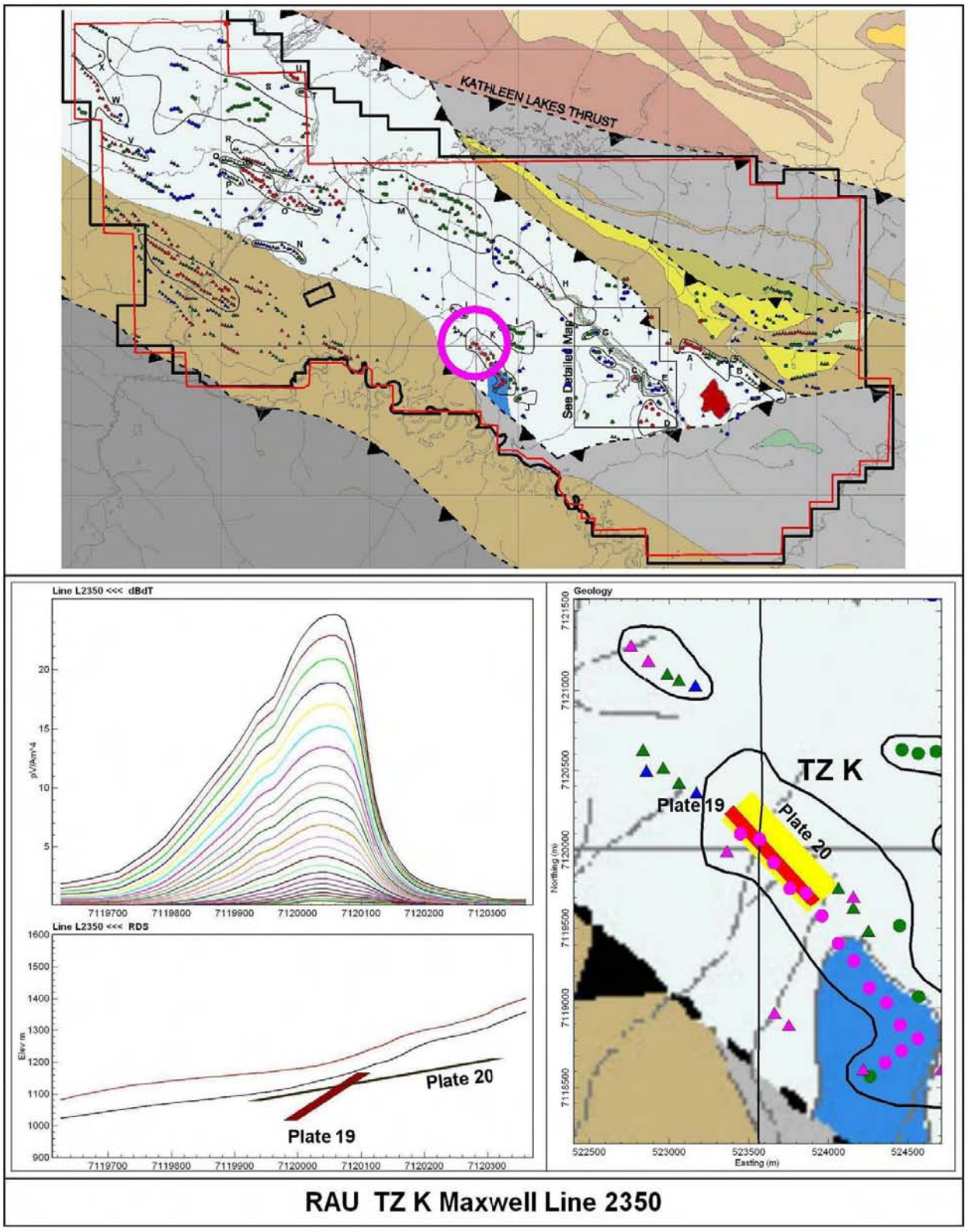
Rau: TZ K, Line 2440 Maxwell modeling.

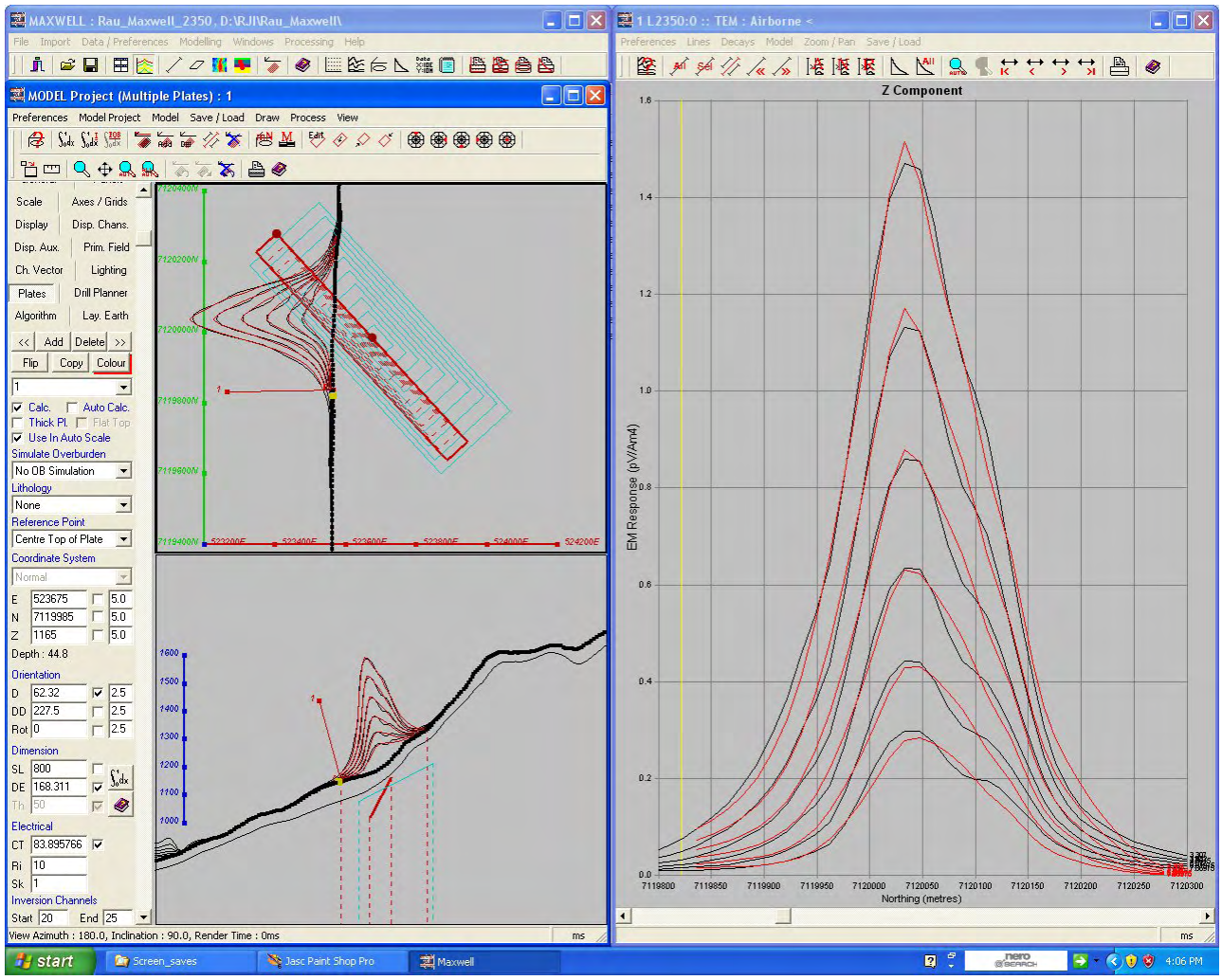


RAU TZ K Maxwell Line 2400 south

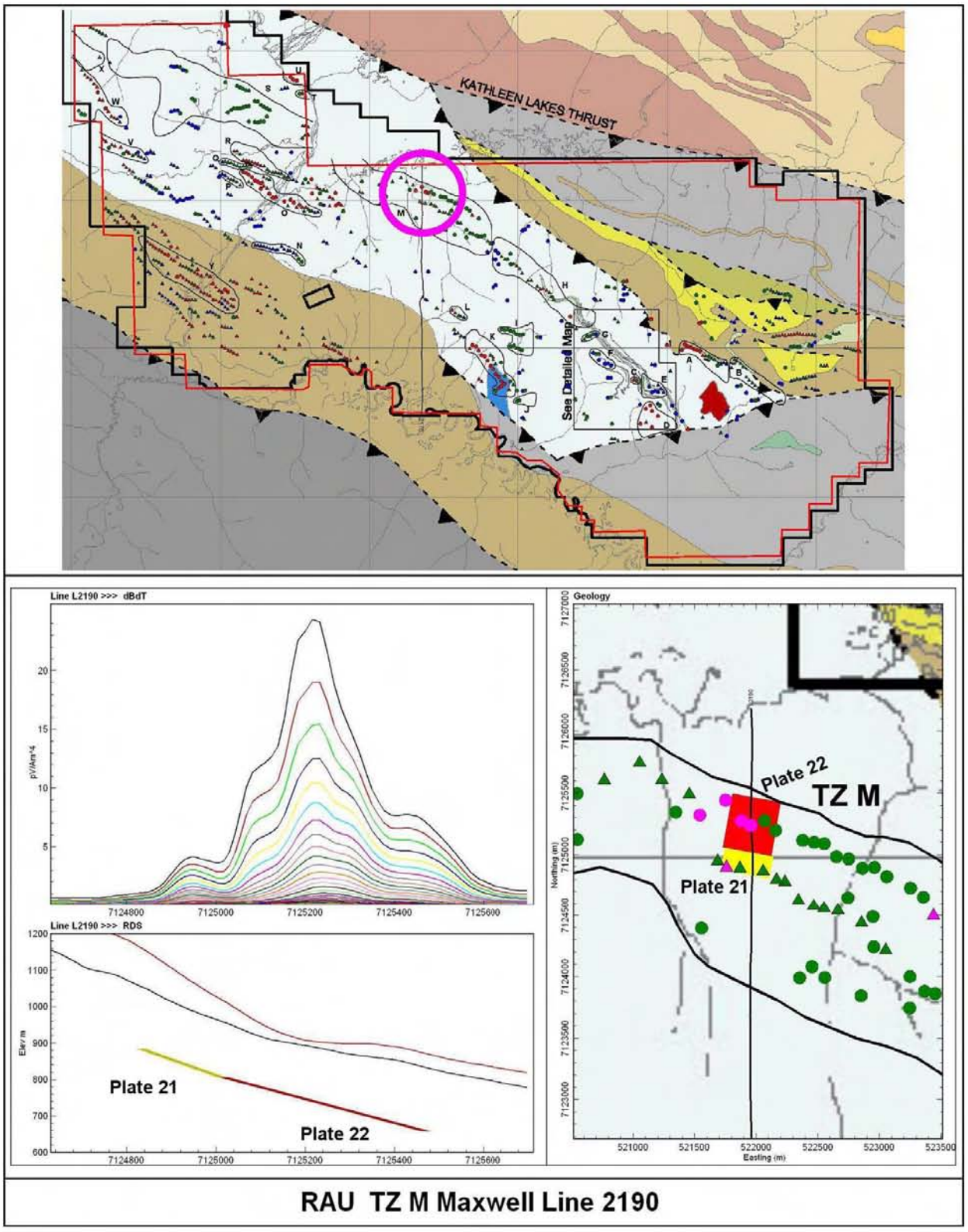


Rau: TZ K, Line 2400 South Maxwell modeling.

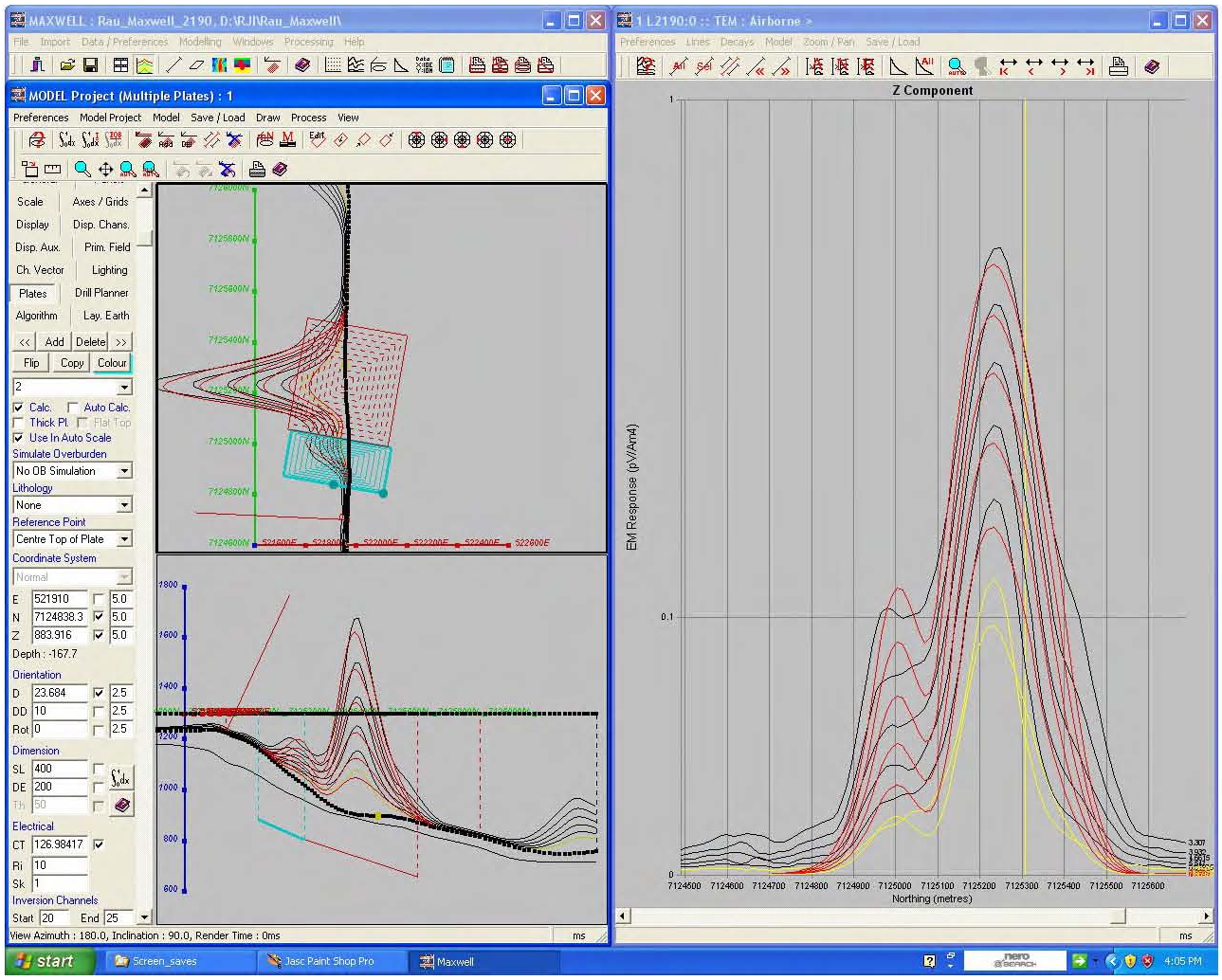

KATHLEEN LAKES THRUST
See Detailed Map
Line L2350 <<< dBdT
pV/Am^4
Line L2350 <<< RDS
Elev m
Plate 19
Plate 20
Geology
TZ K
Plate 19
Plate 20
Northing (m)
Easting (m)
RAU TZ K Maxwell Line 2350



Rau: TZ K, Line 2350 Maxwell modeling.



RAU TZ M Maxwell Line 2190



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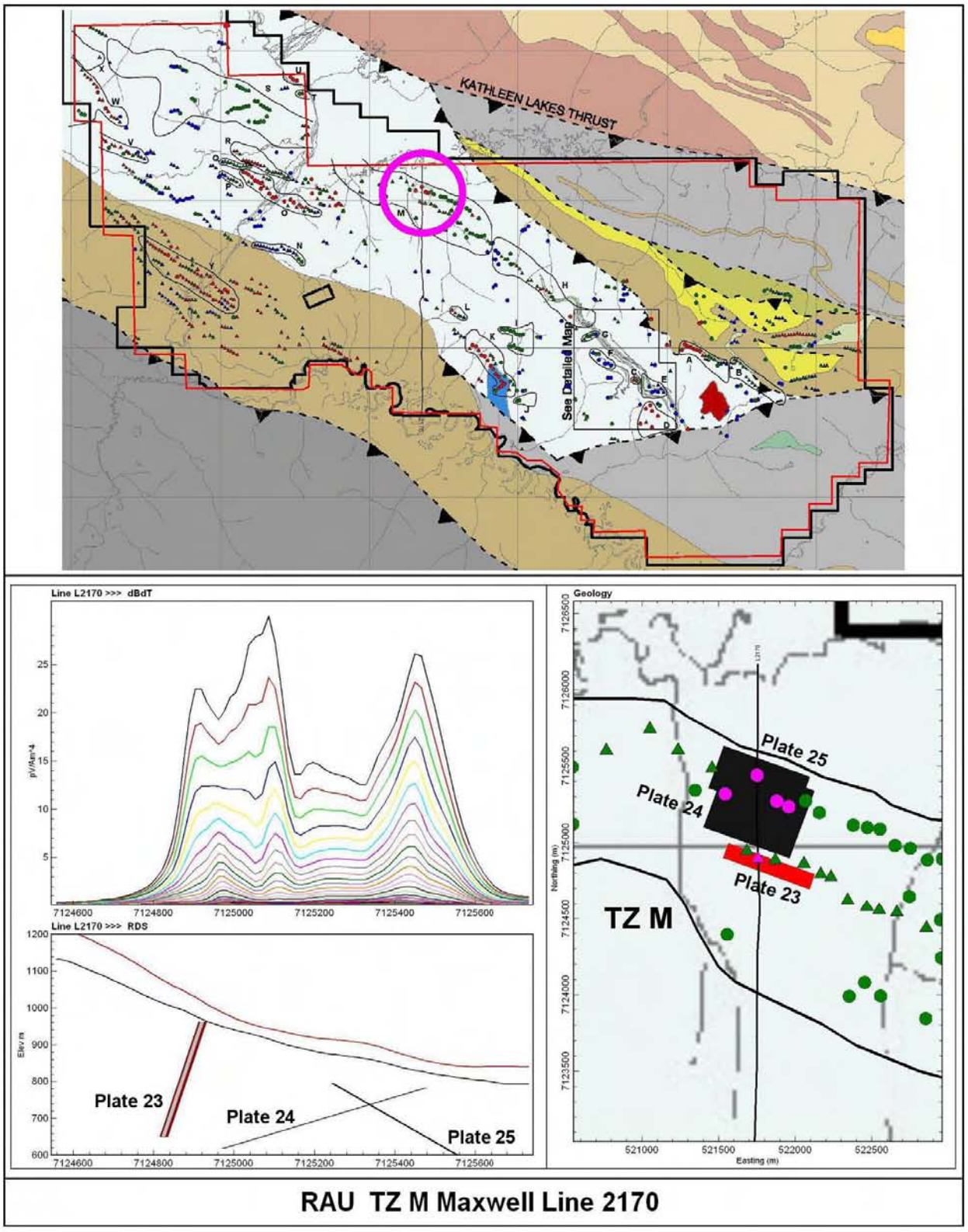
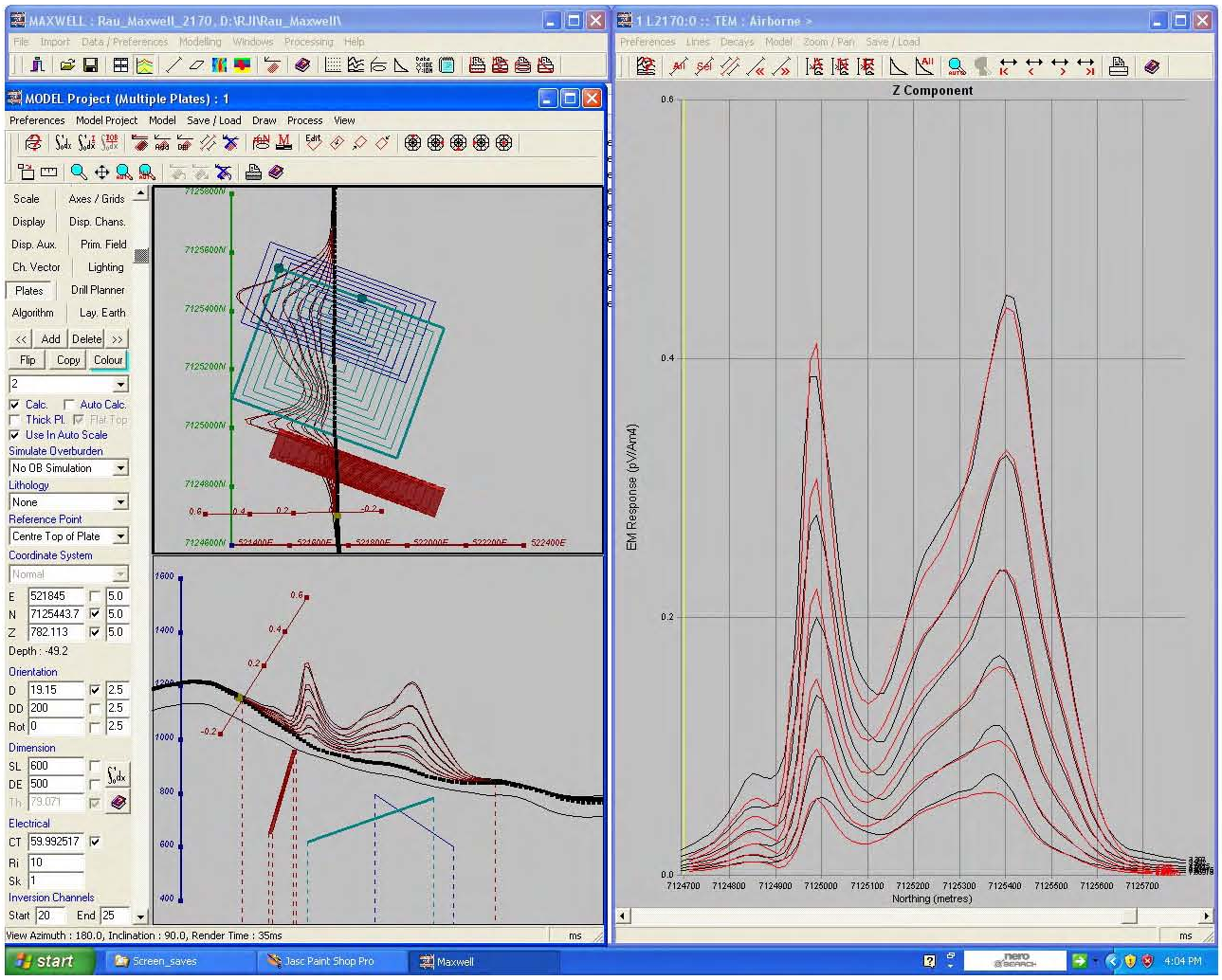

KATHLEEN LAKES THRUST
See Detailed Map
Line L2170 >>> dBdT
pV/Am^4
Line L2170 >>> RDS
Elev m
Plate 23
Plate 24
Plate 25
Geology
Plate 25
Plate 24
Plate 23
TZ M
Northing (m)
Easting (m)
RAU TZ M Maxwell Line 2170



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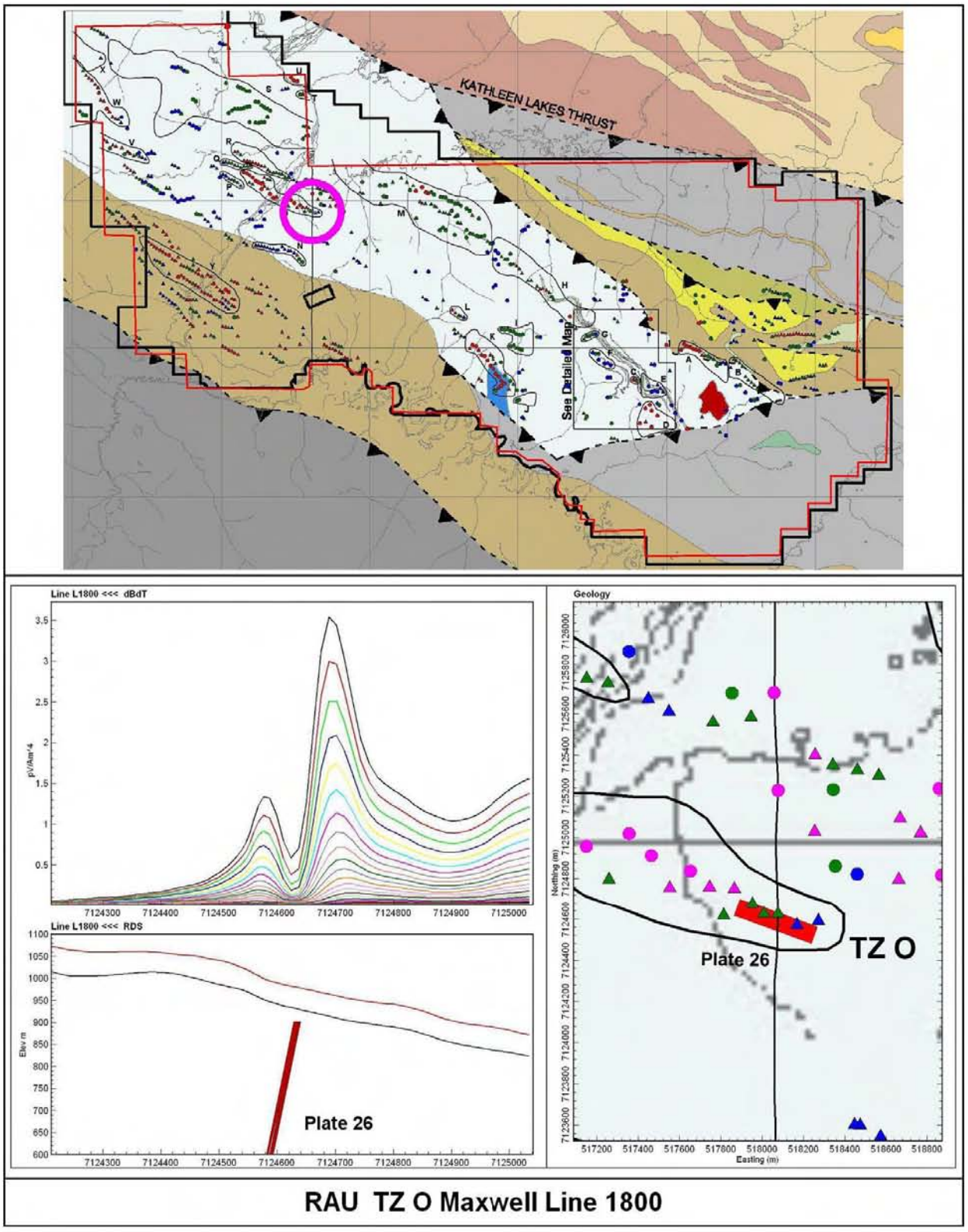
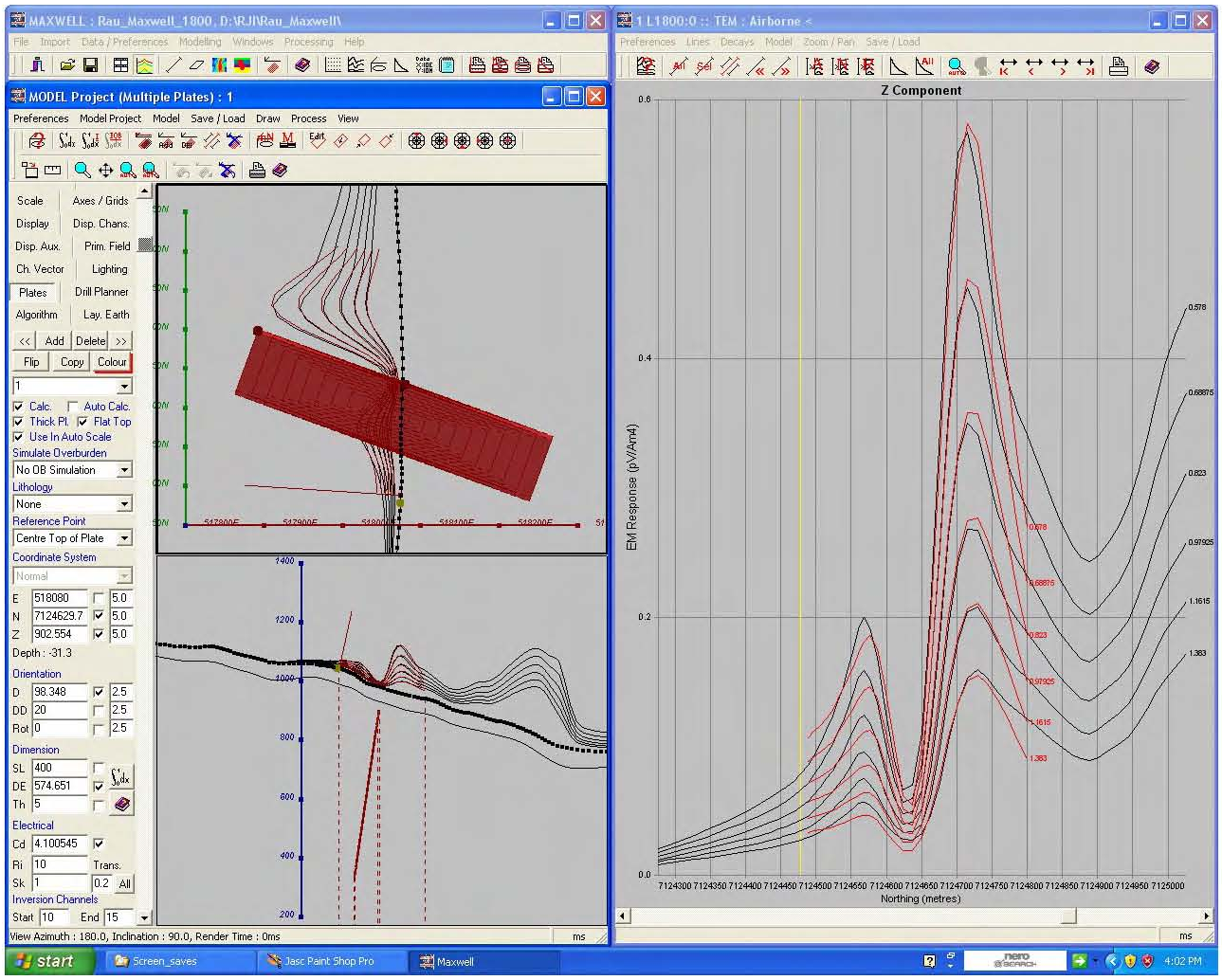


RAU TZ O Maxwell Line 1800



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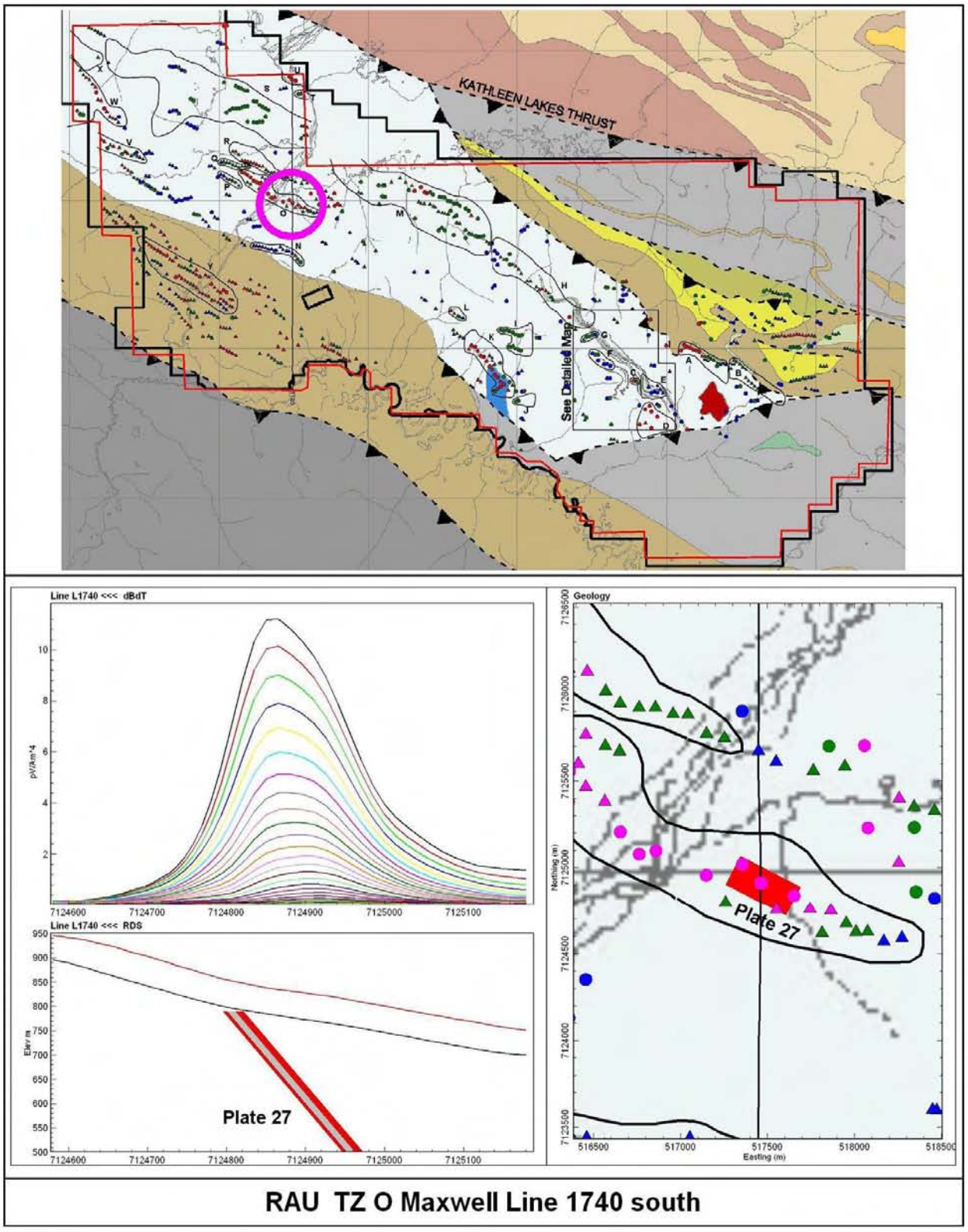
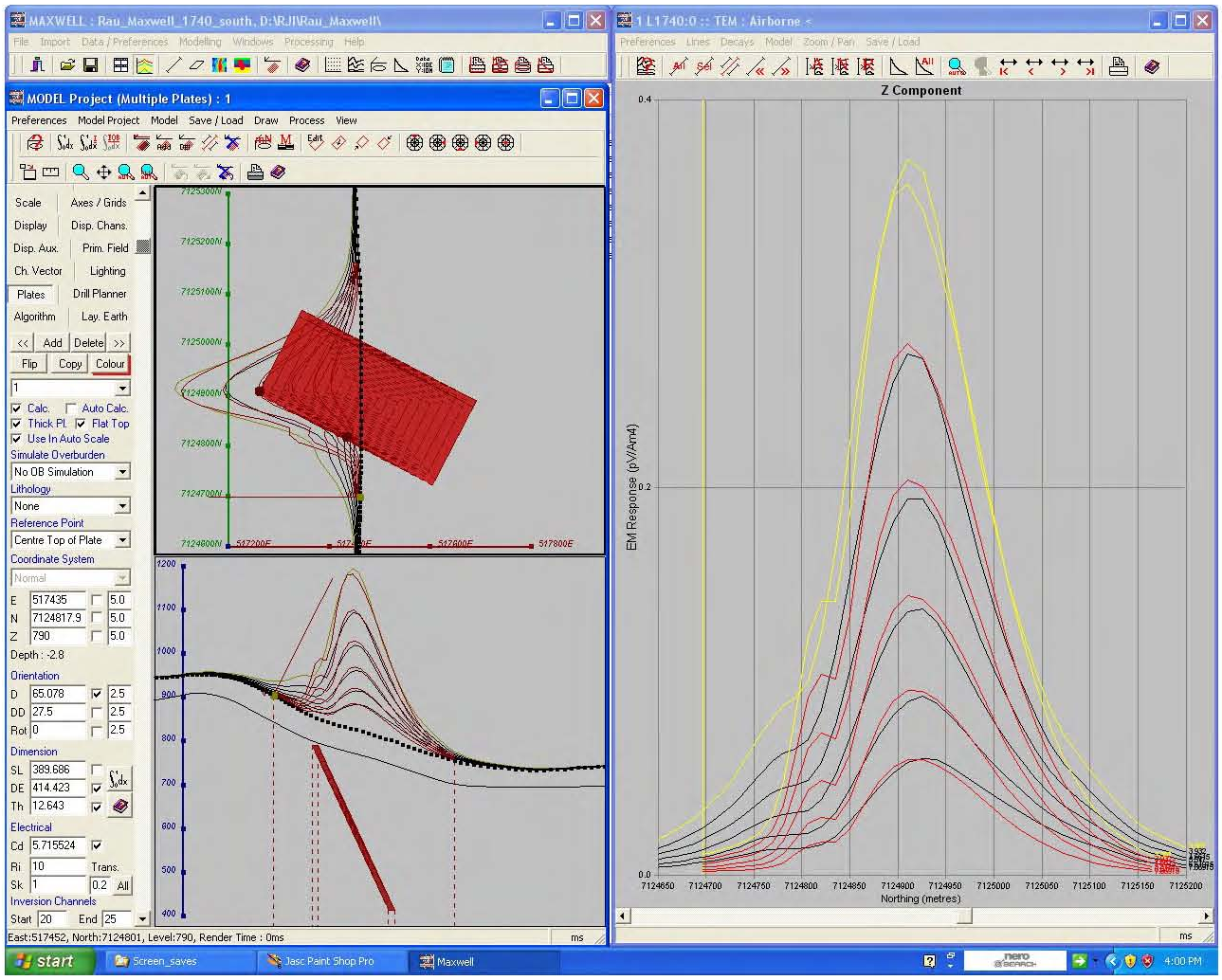


RAU TZ O Maxwell Line 1740 south



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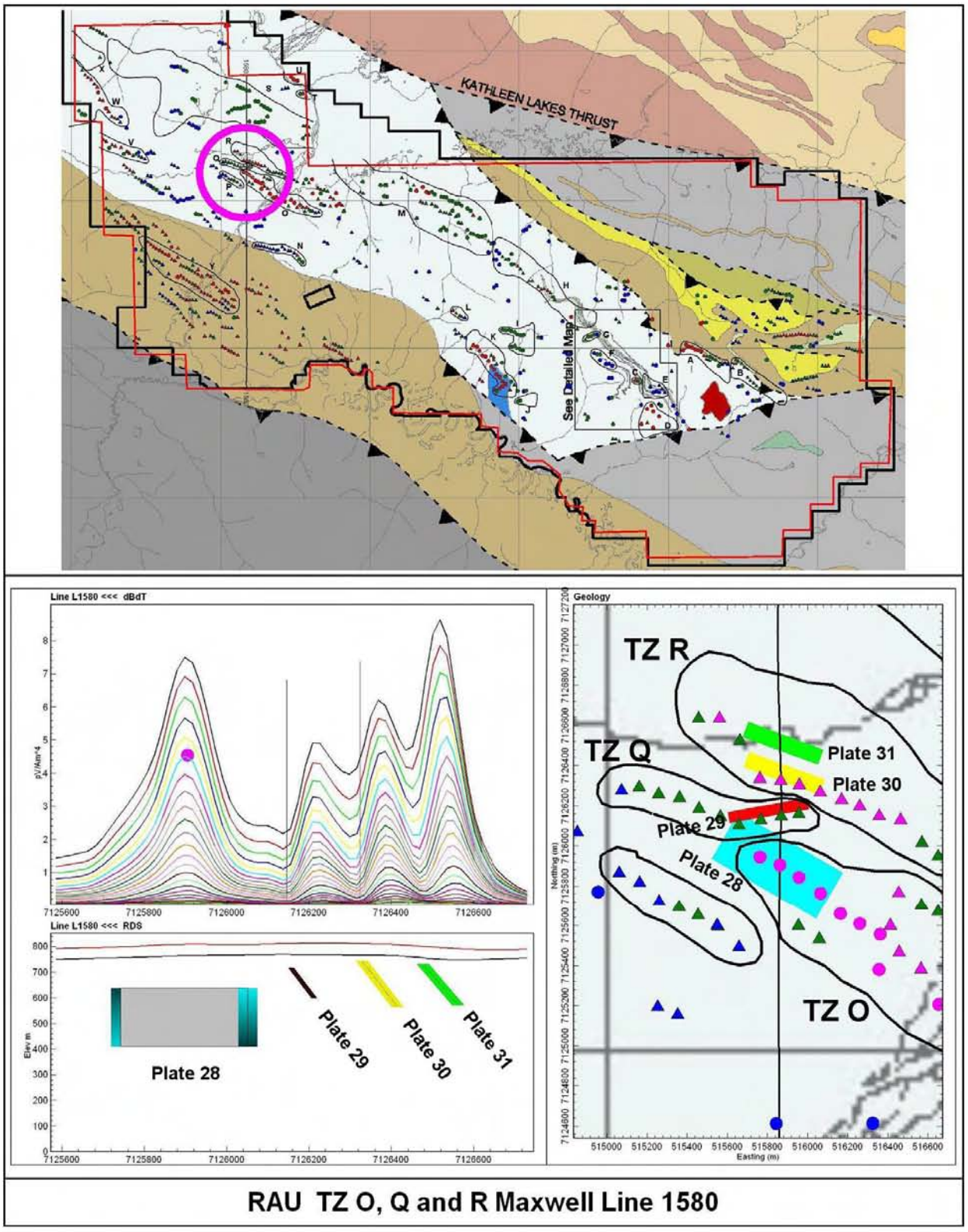
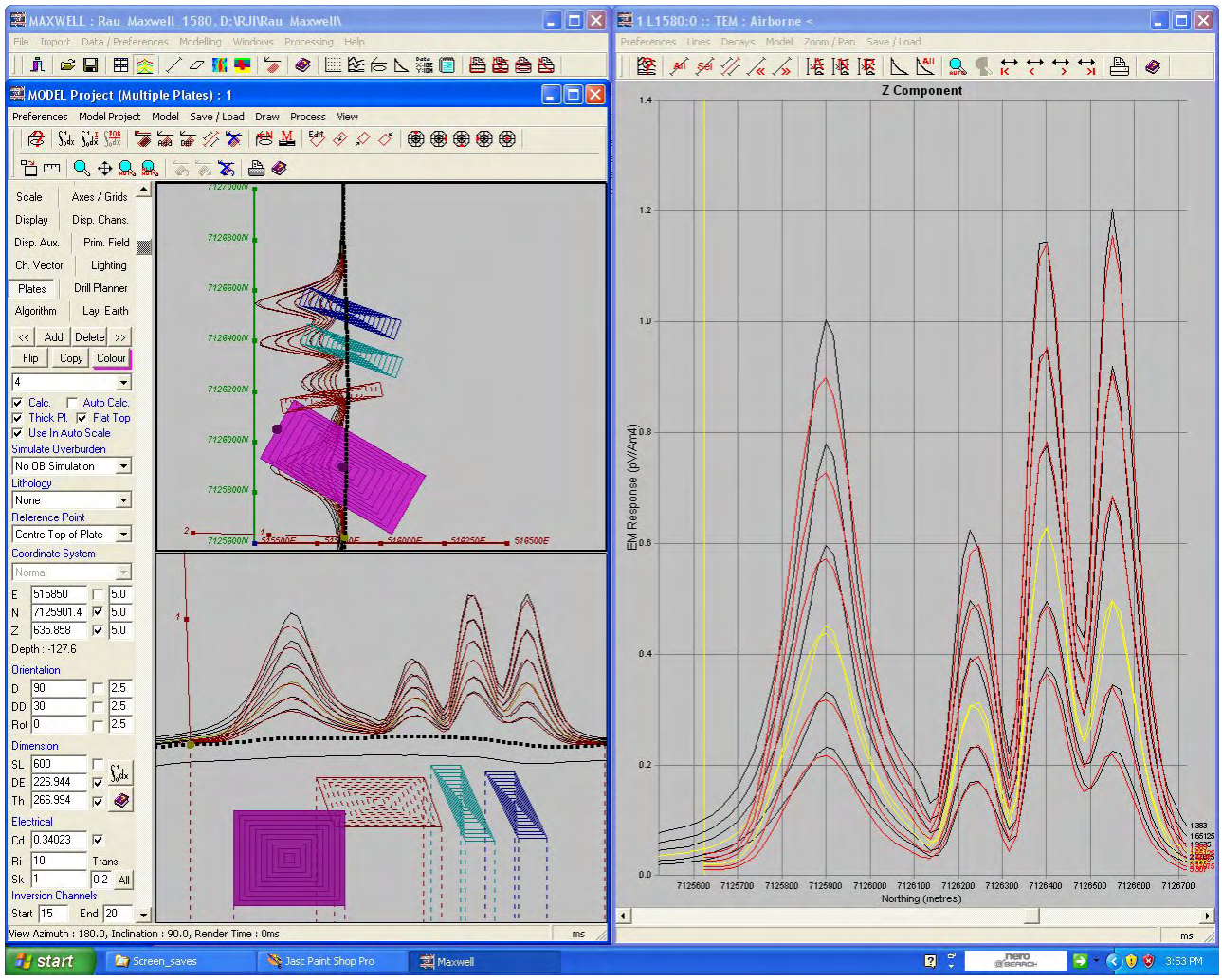


RAU TZ O, Q and R Maxwell Line 1580



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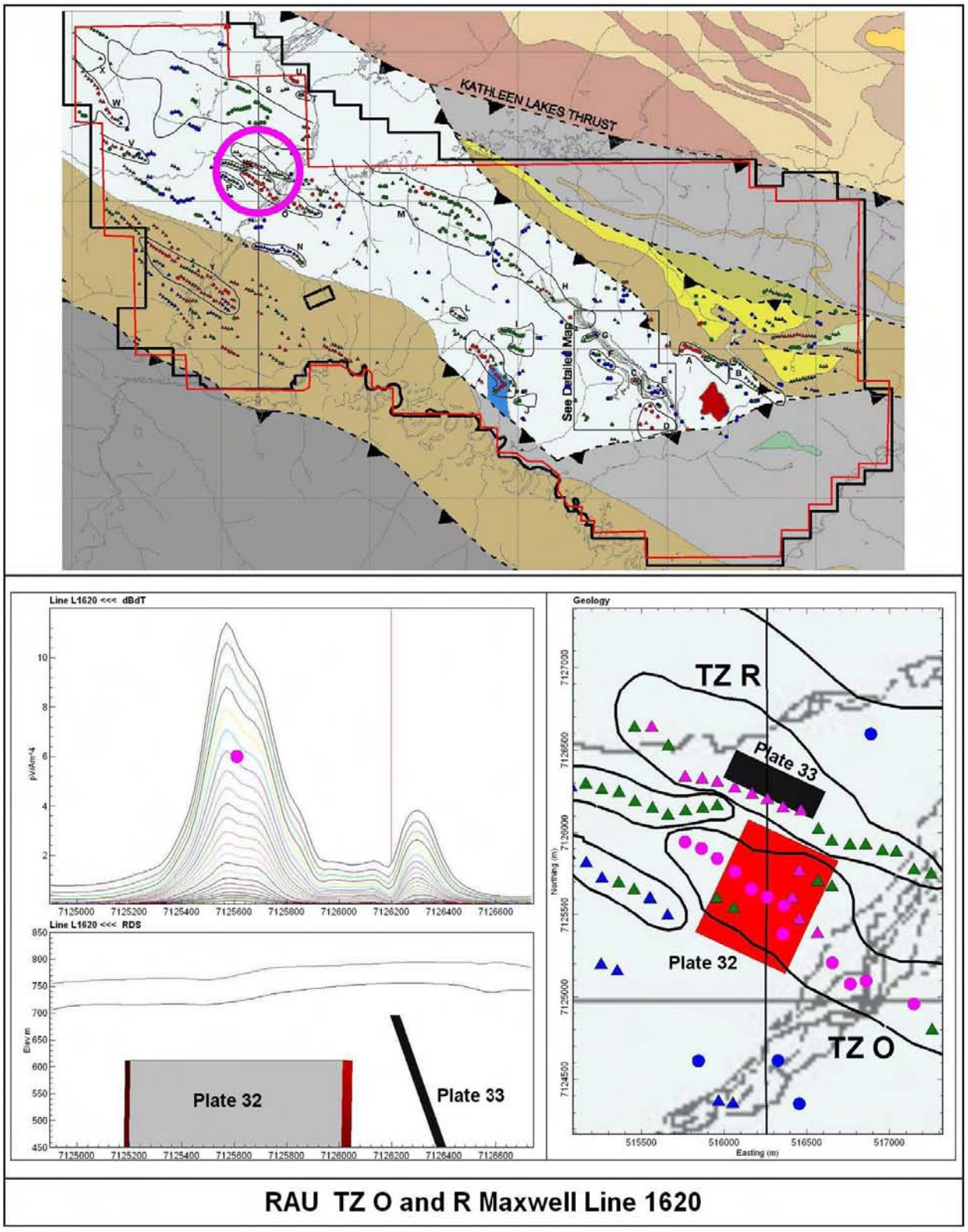

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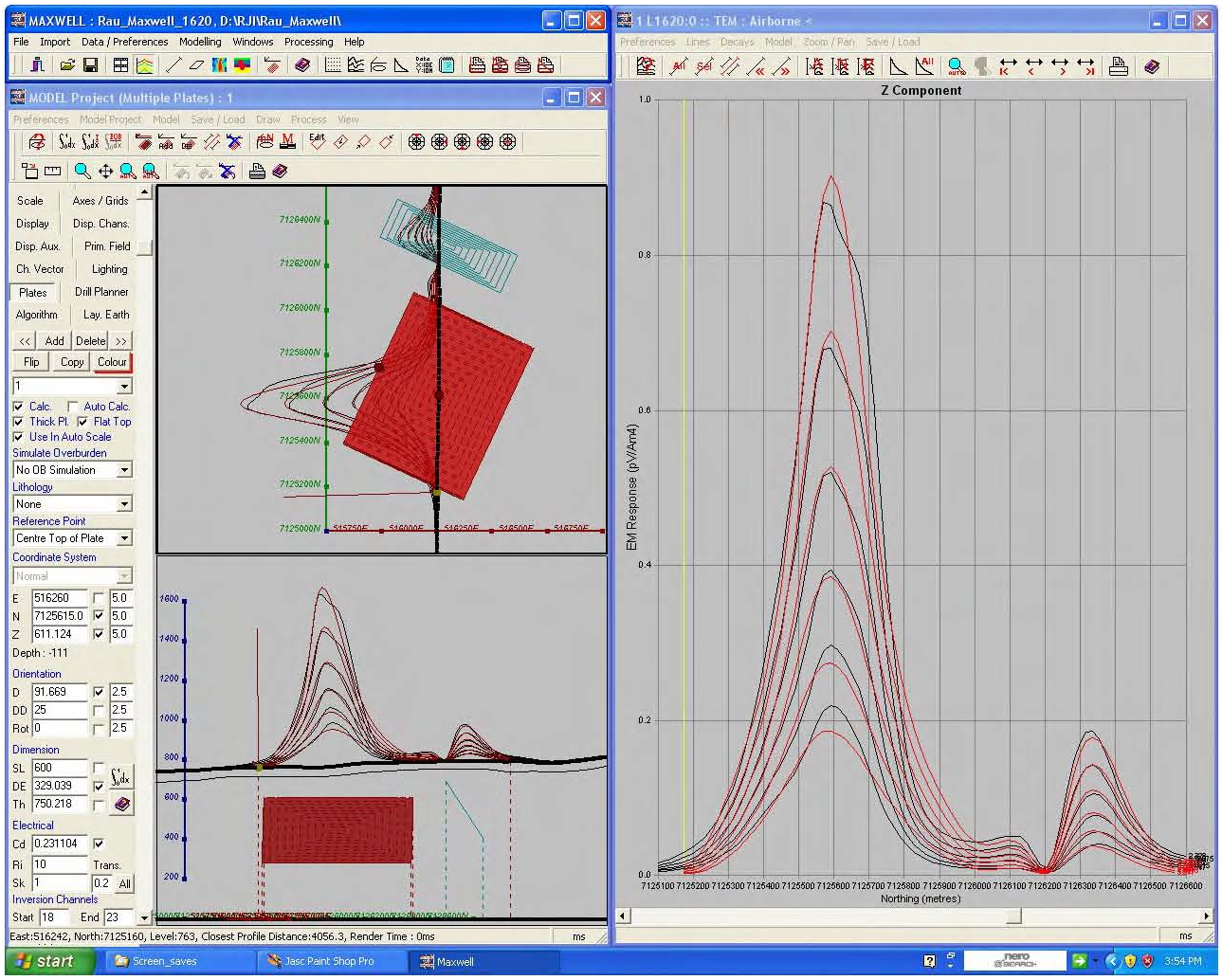

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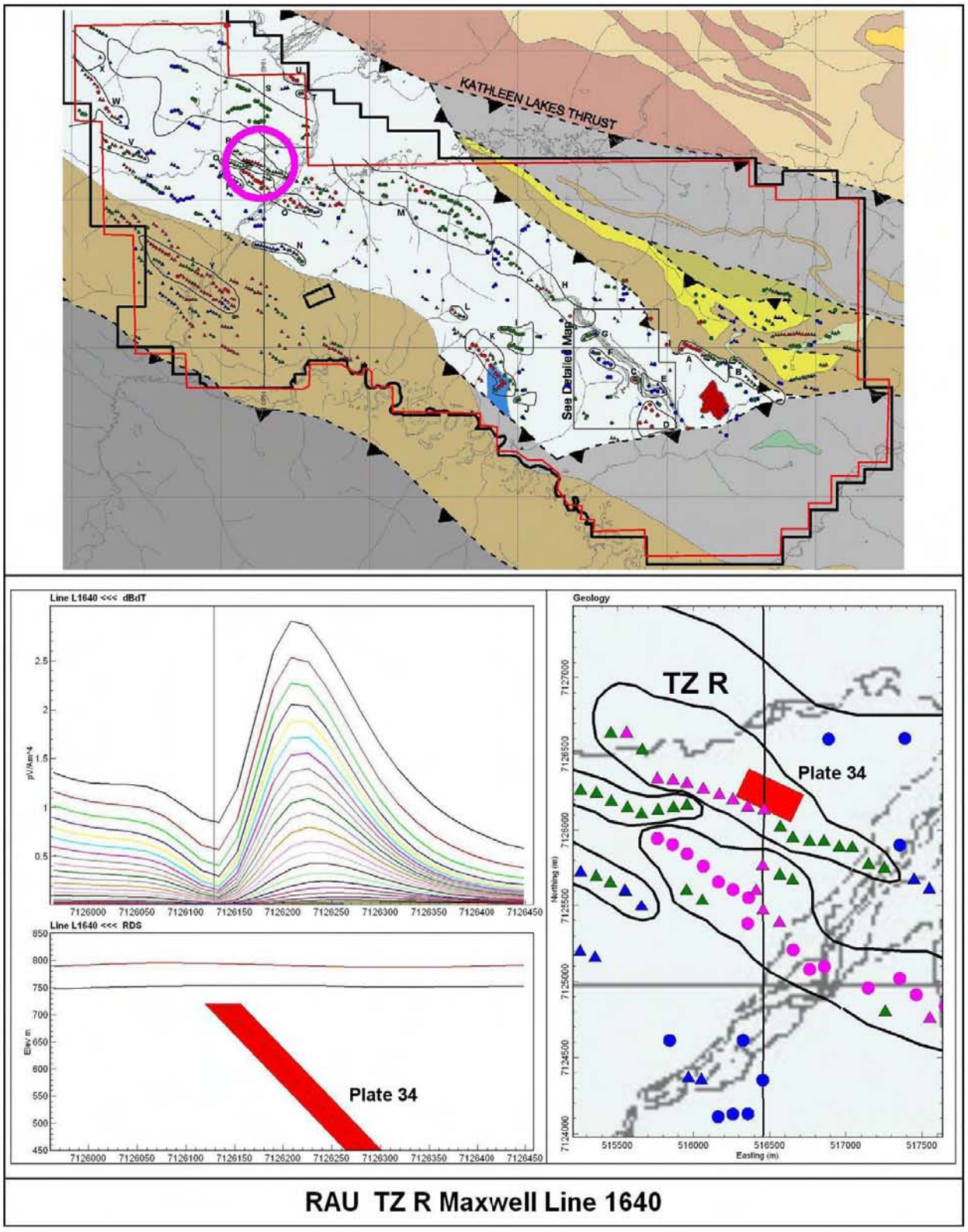

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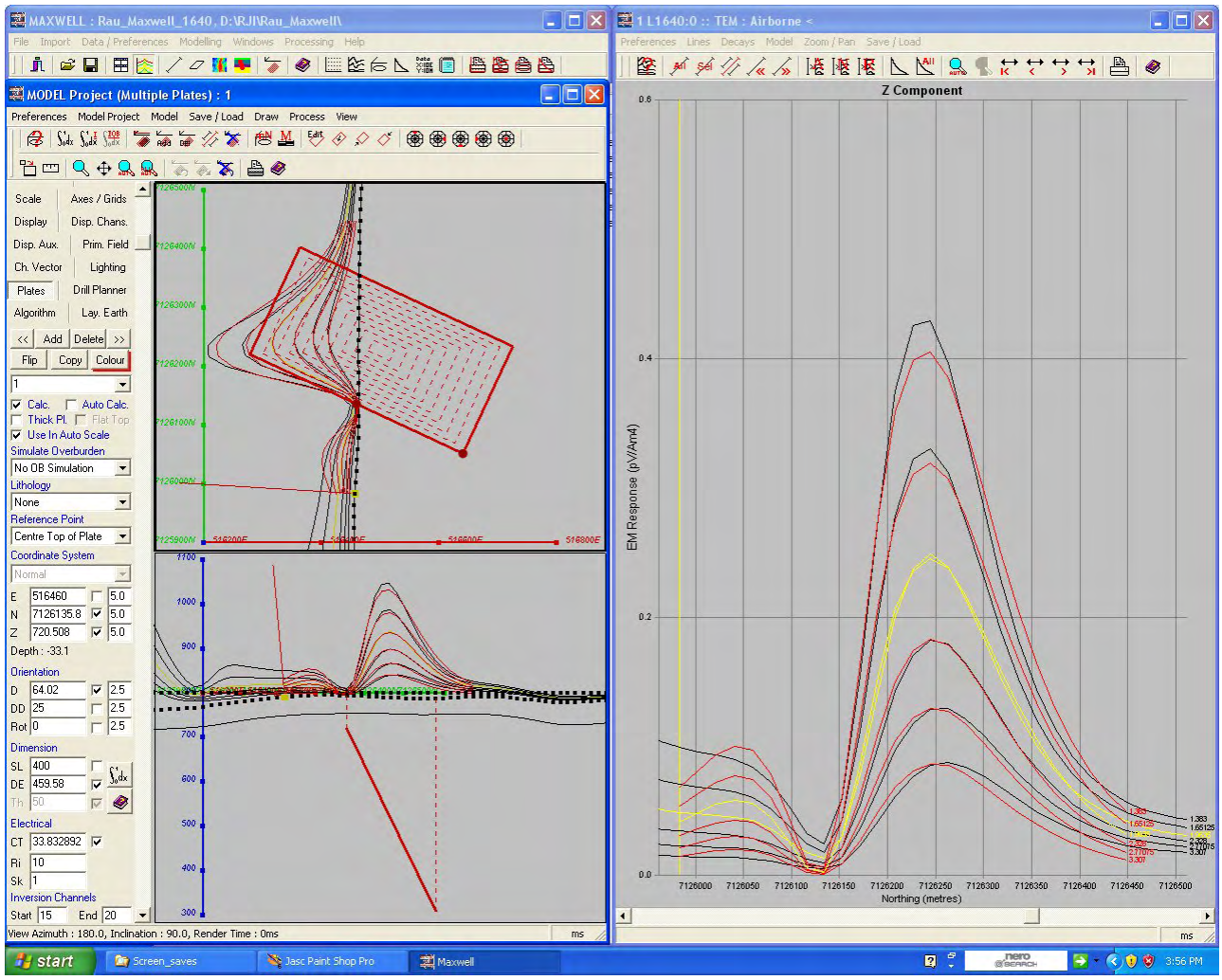
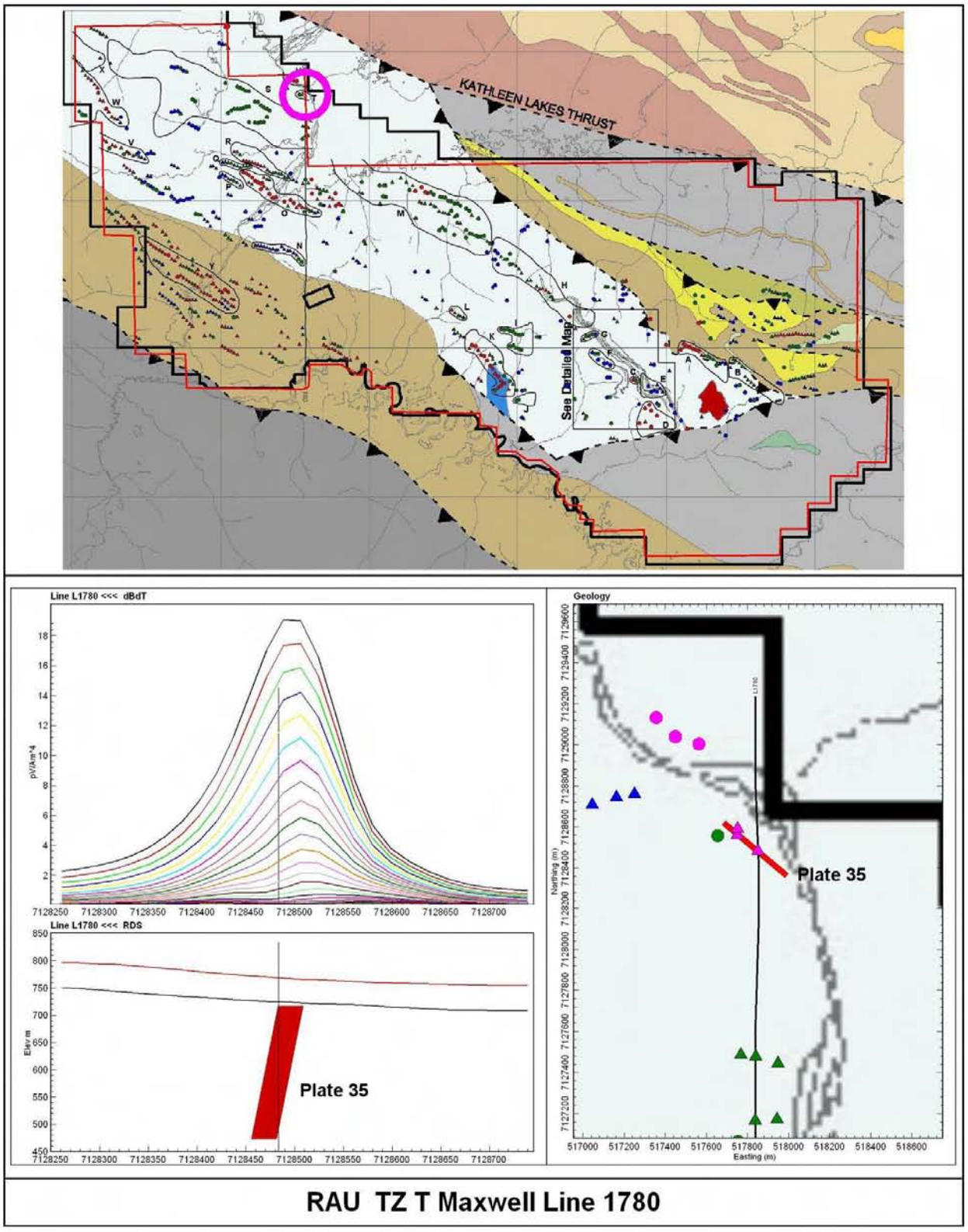


Rau: TZ R, Line 1640 Maxwell modeling.



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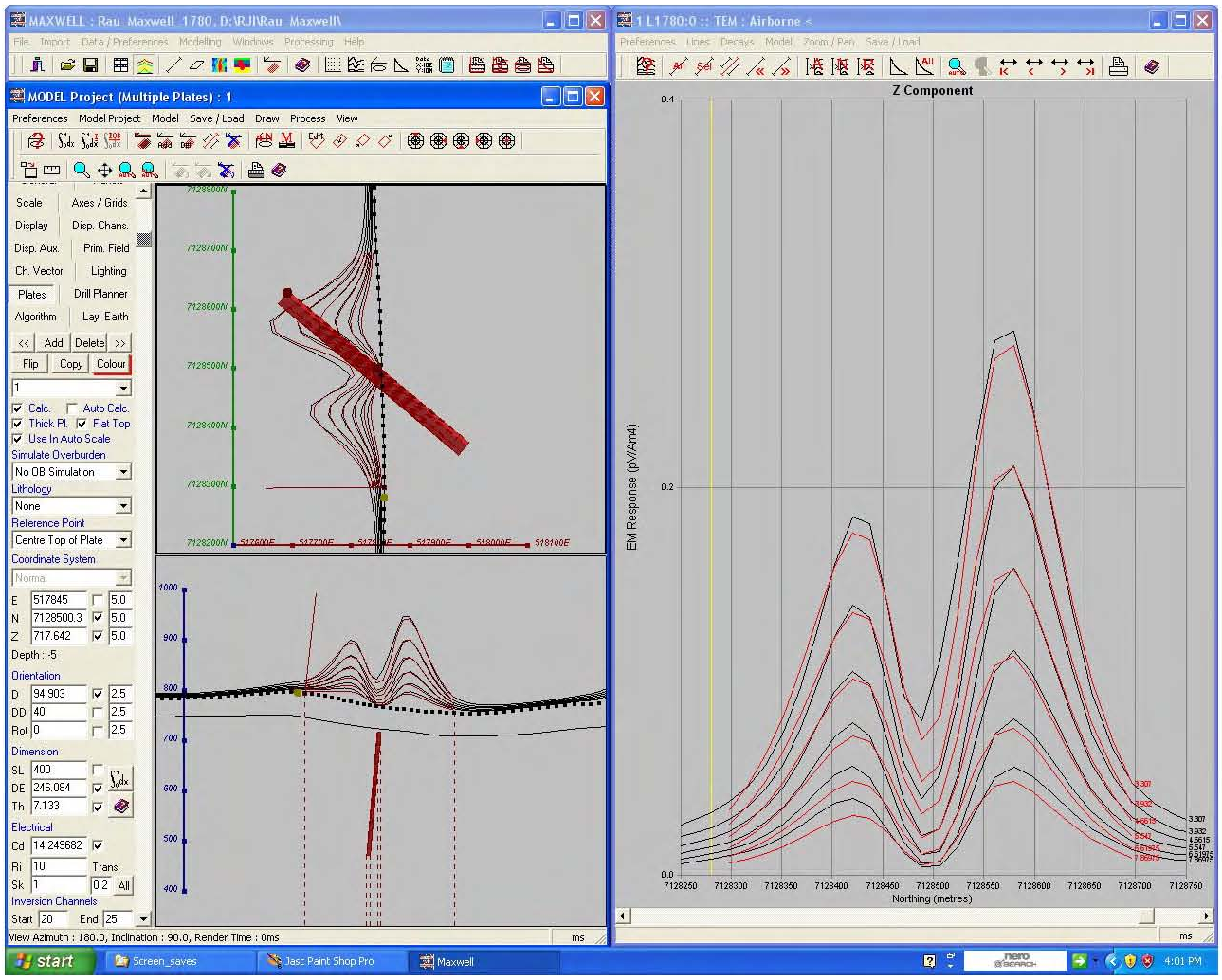

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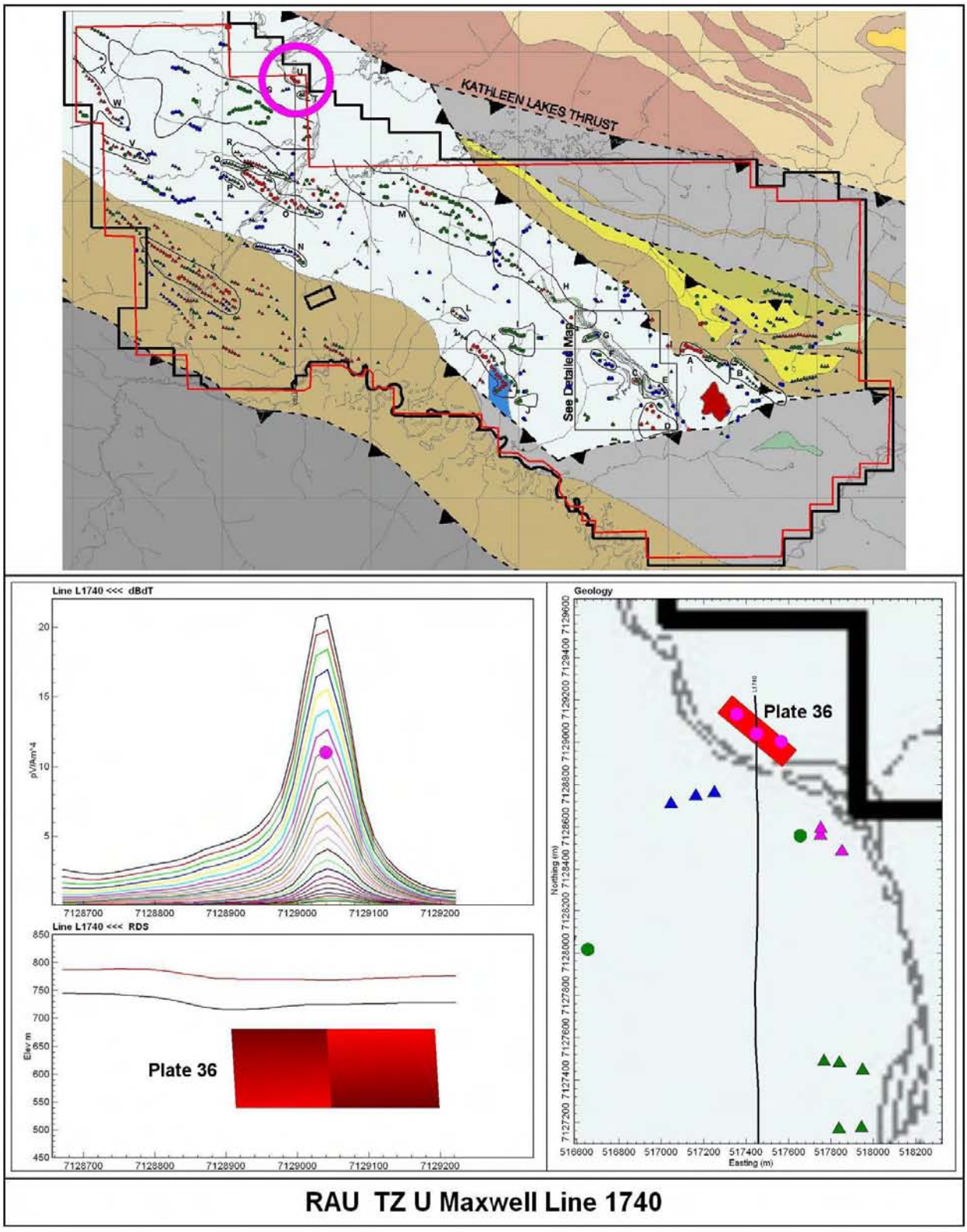

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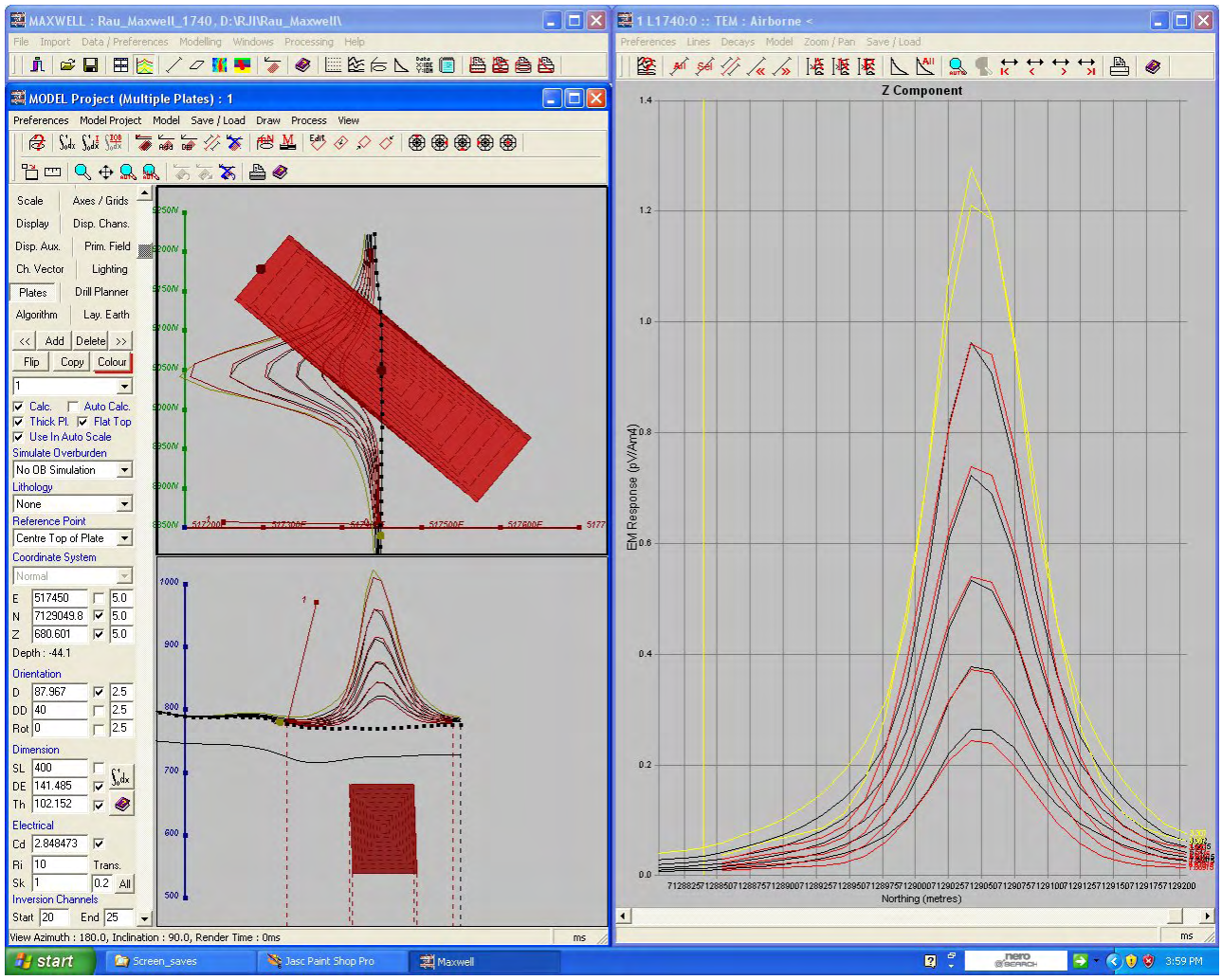

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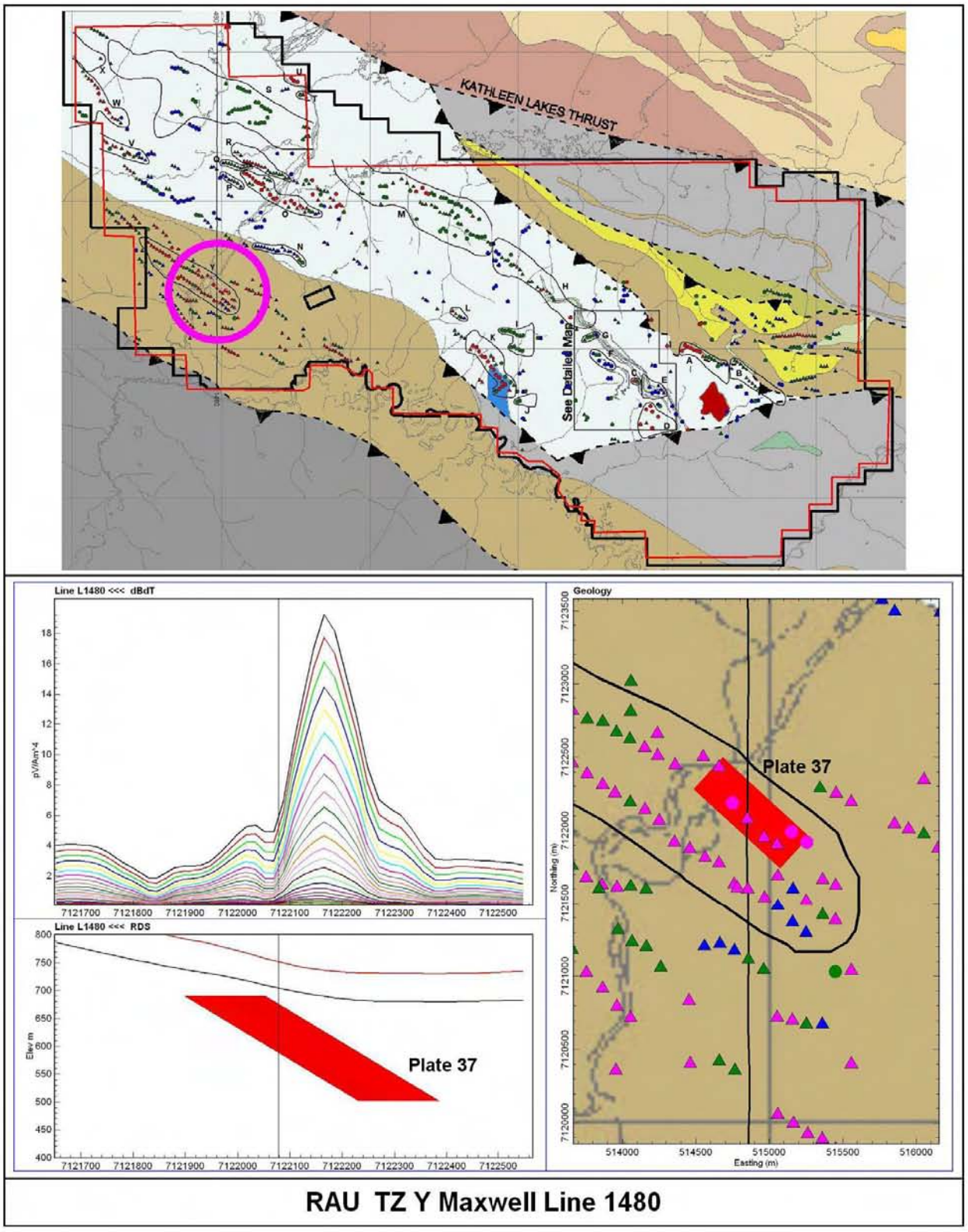
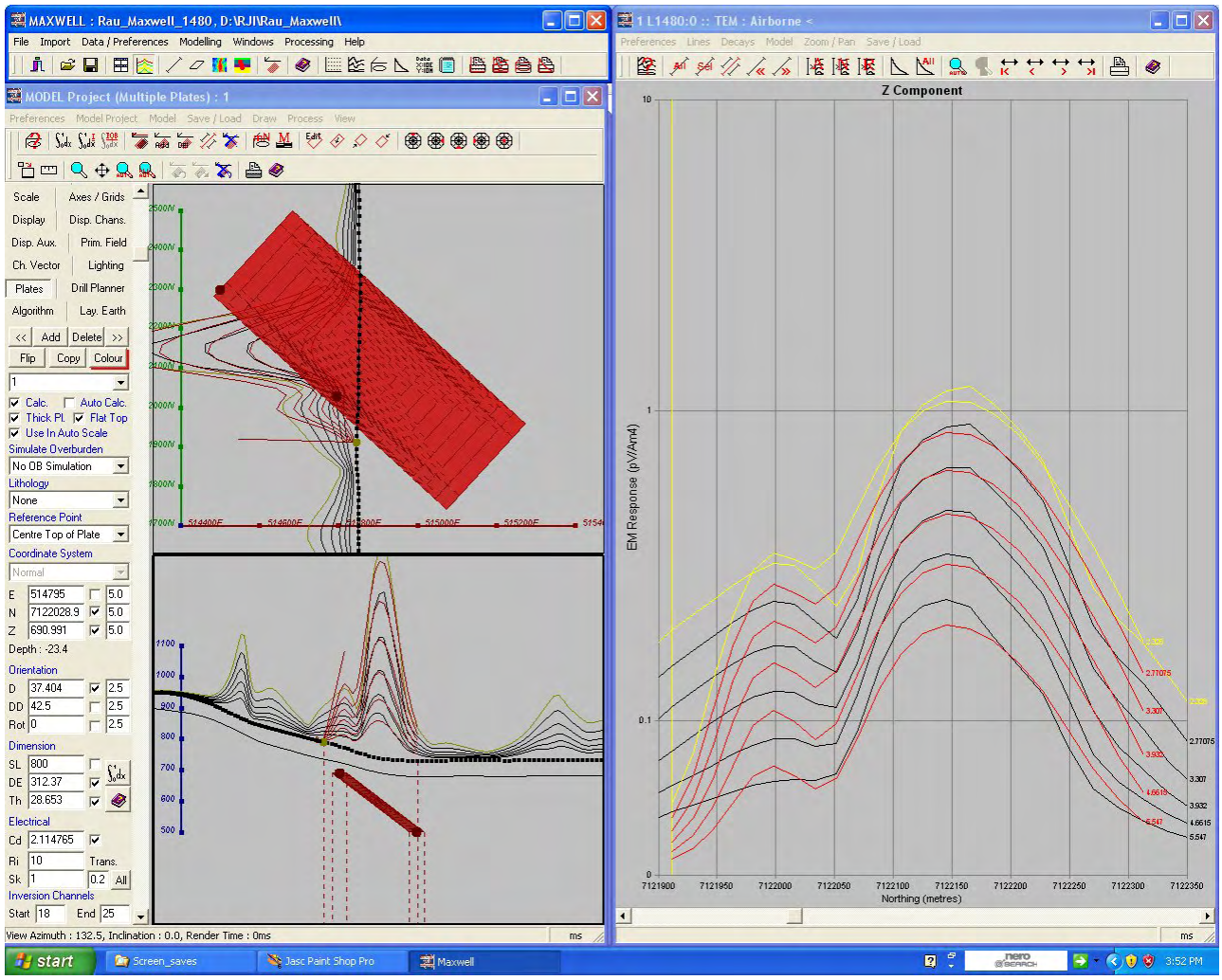

KATHLEEN LAKES THRUST
See Detailed Map
Line L1480 <<< dBdT
pV/Am^4
Line L1480 <<< RDS
Elev m
Plate 37
Geology
Plate 37
Northing (m)
Easting (m)
RAU TZ Y Maxwell Line 1480



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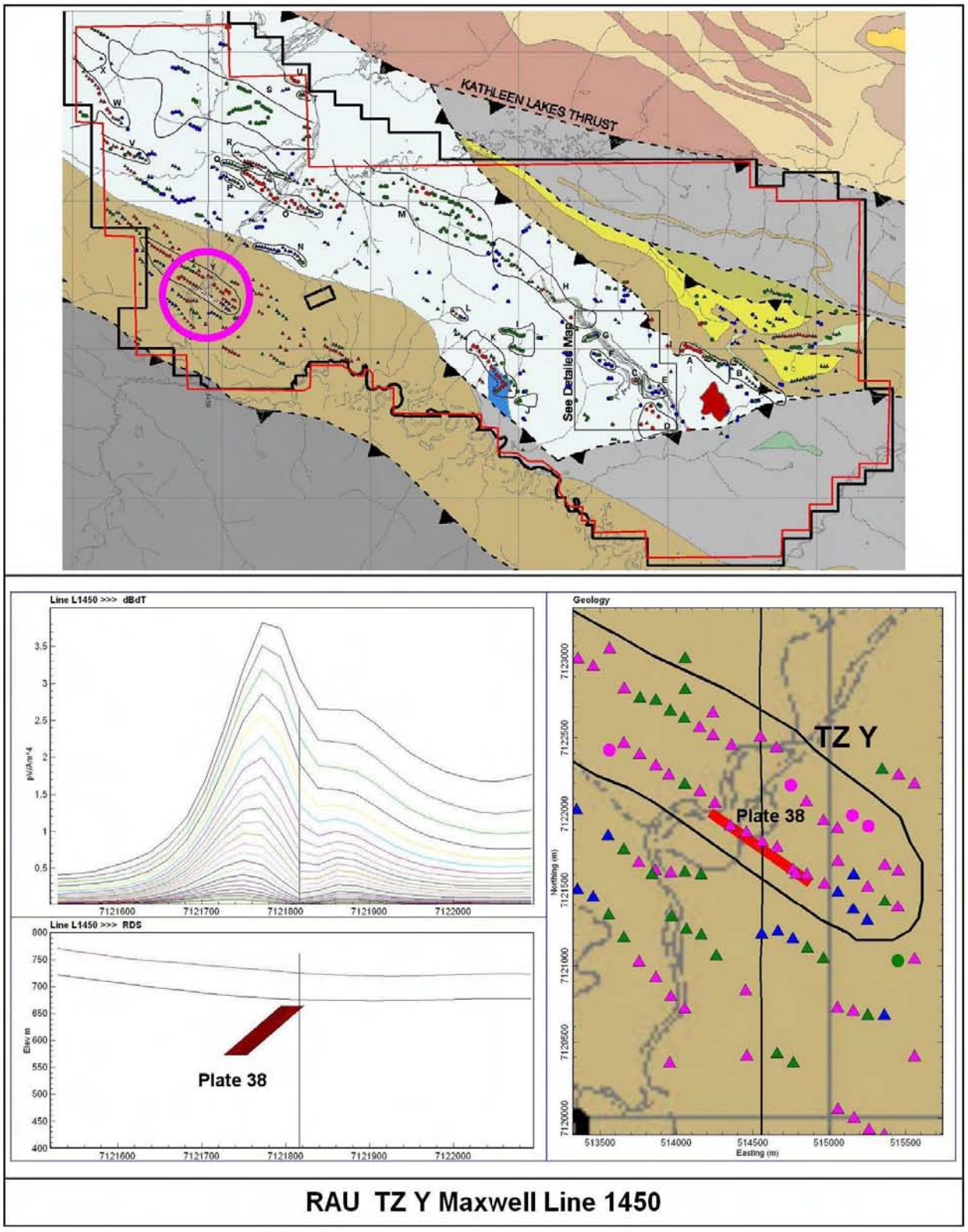

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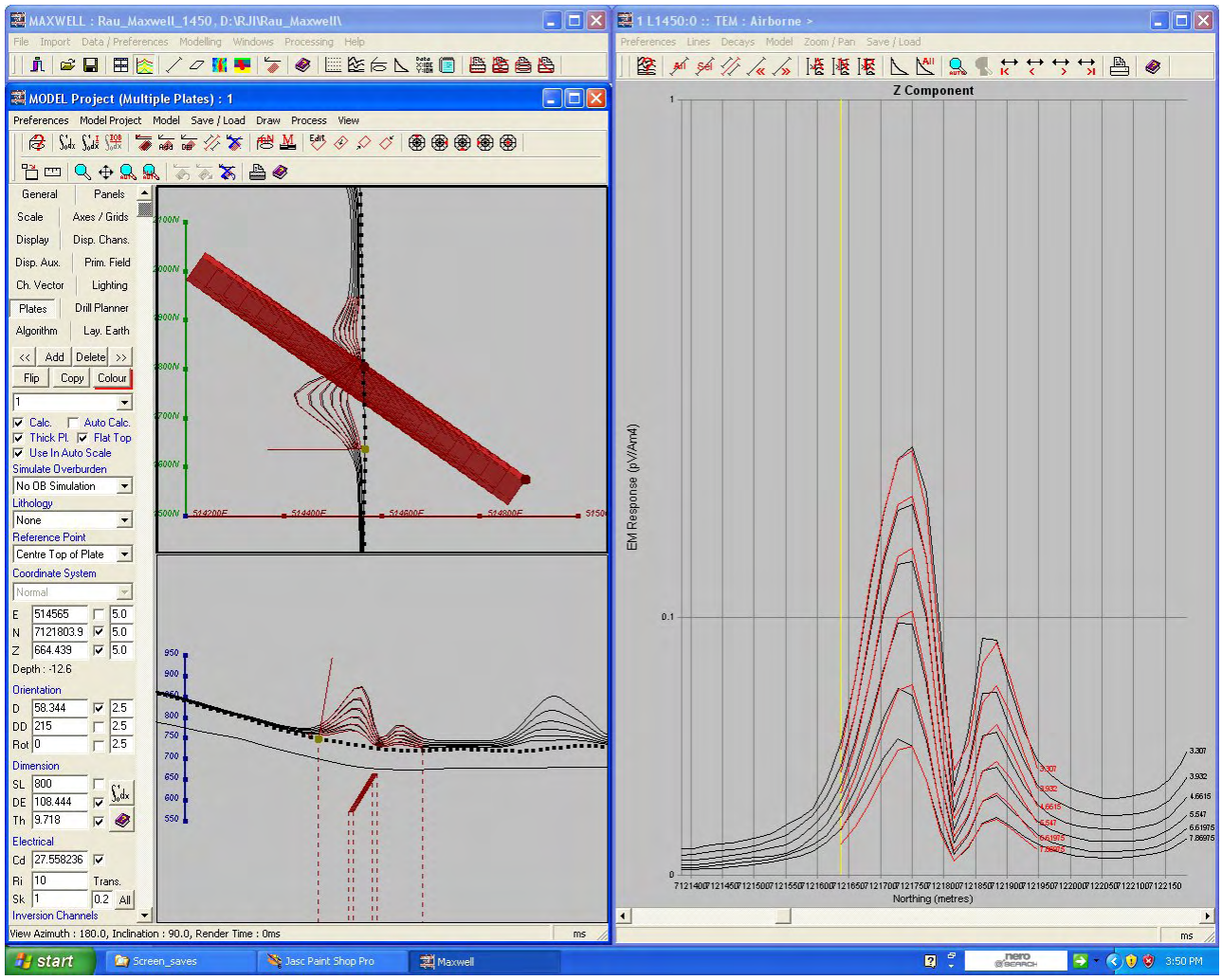

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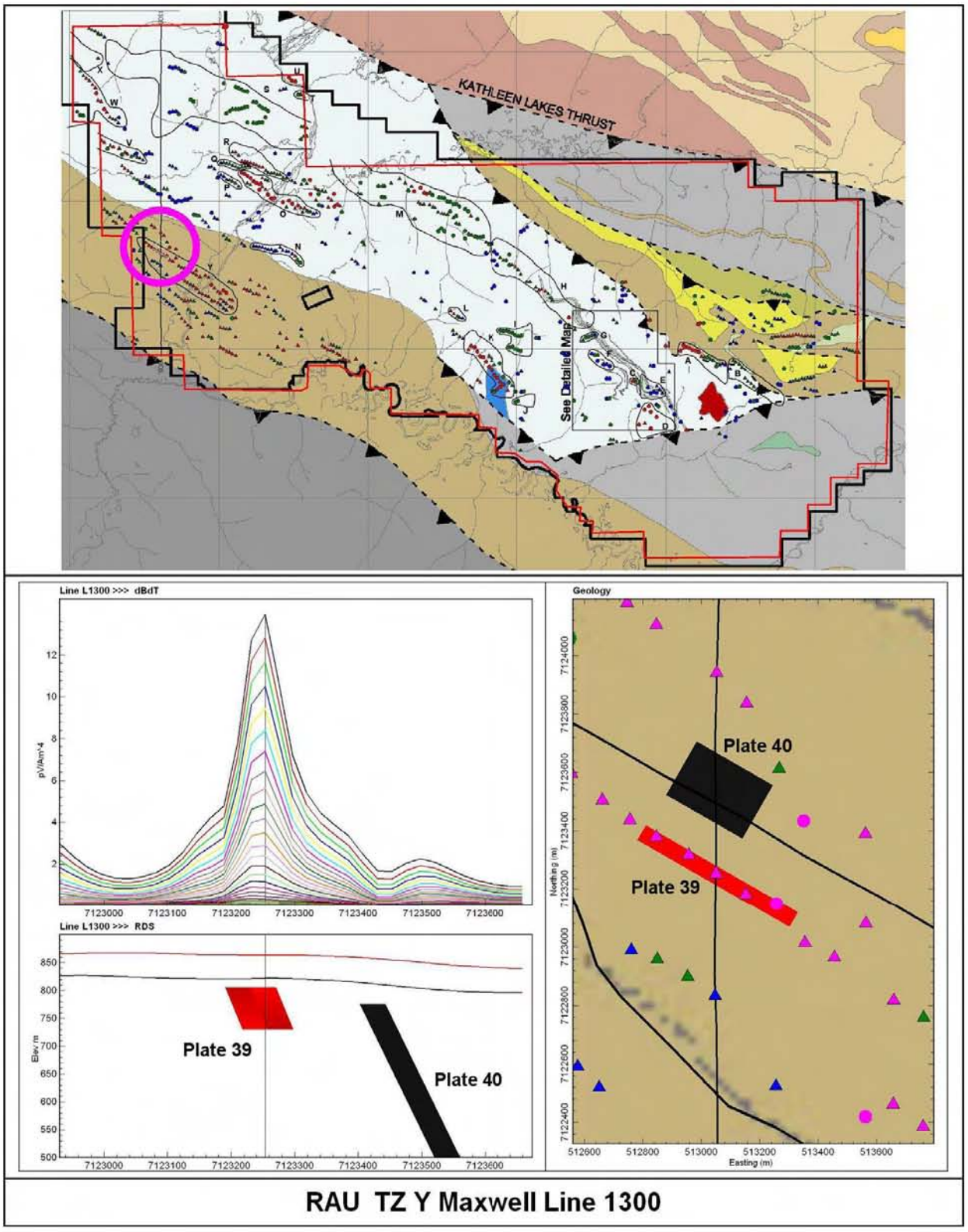

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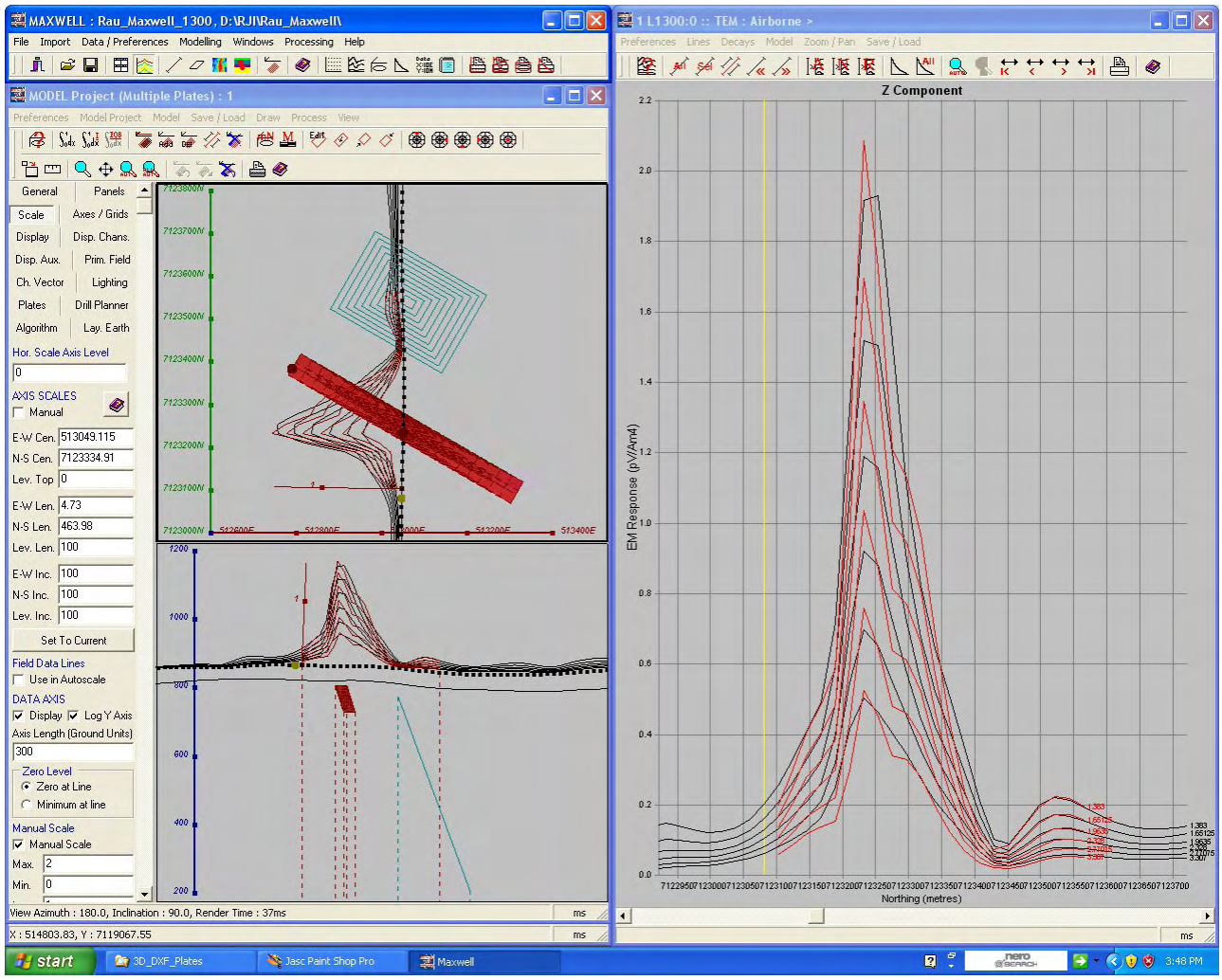
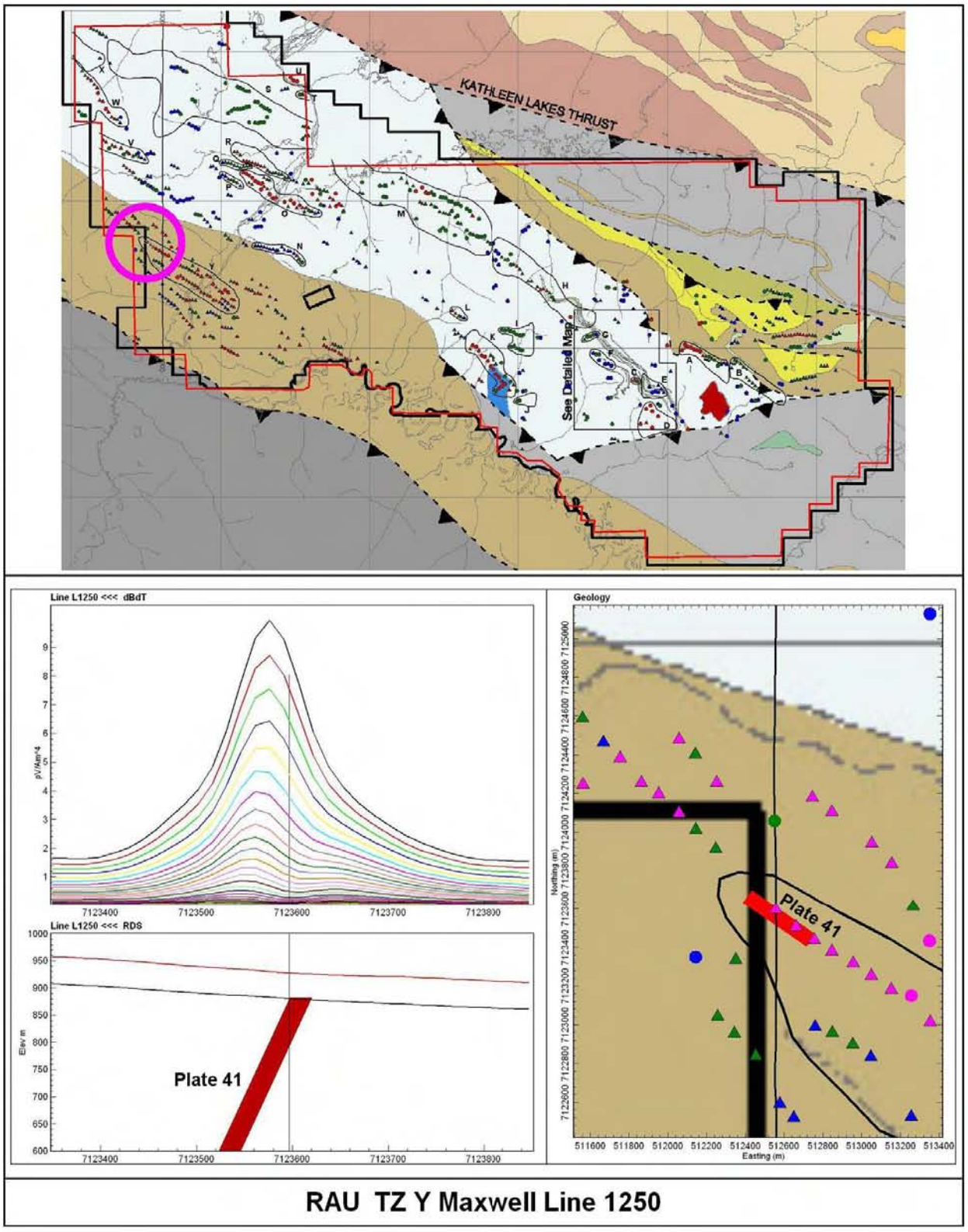
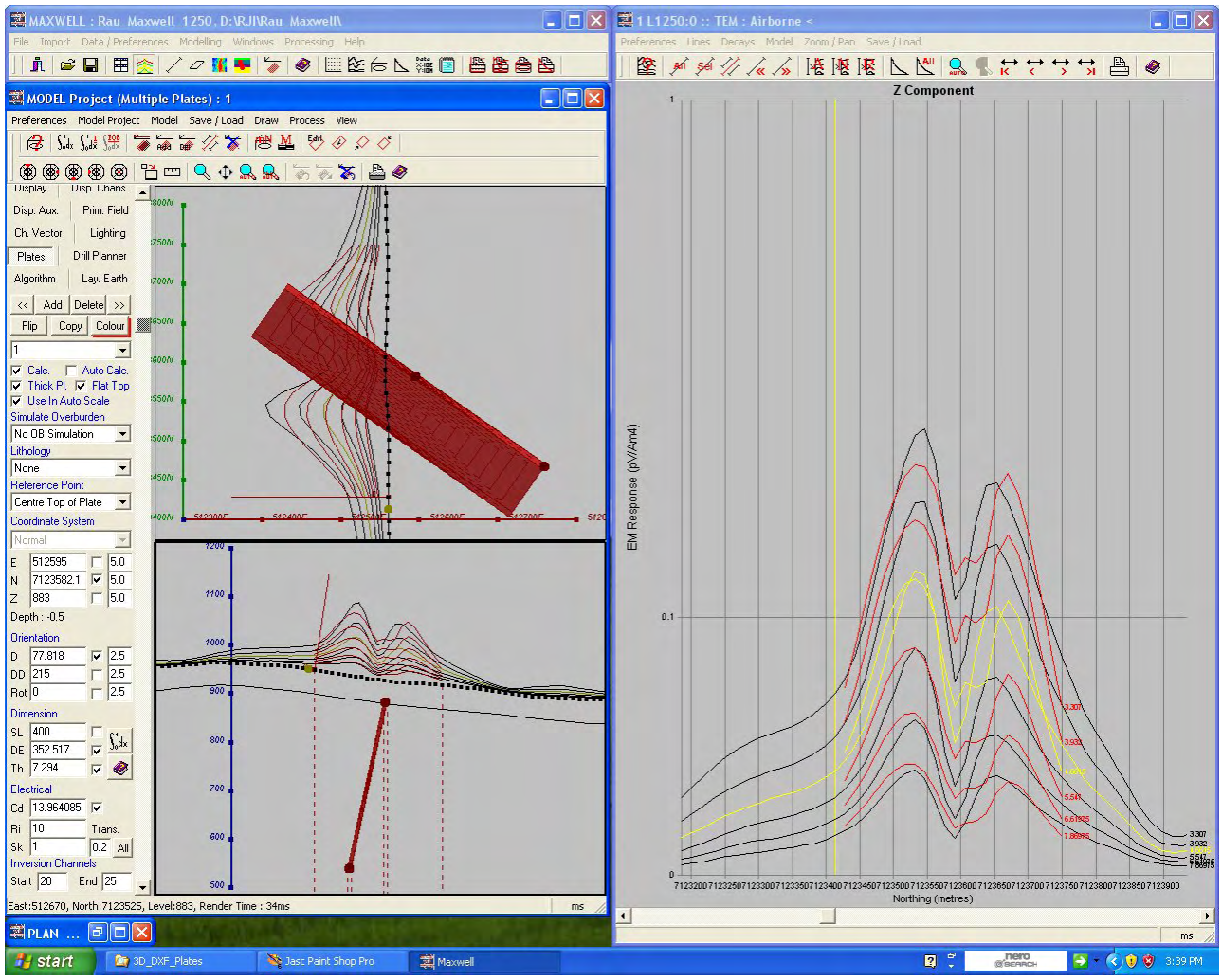


Rau: TZ Y, Line 1300 Maxwell modeling.



RAU TZ Y Maxwell Line 1250



Rau: TZ Y, Line 1250 Maxwell modeling.

APPENDIX D: ARCHIVE DVD

APPENDIX XII

GEOPHYSICAL REPORT BY AURORA GEOSCIENCES

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Whitehorse, YT Y1A 5Y9
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www.aurorageosciences.com

AURORA GEOSCIENCES

MEMORANDUM

To: Rob Cairns, Graham Downs **Date:** September 03, 2009

From: Dave Hildes

Re: Rau 2009 Induced Polarization Survey Field Report

FIELD

This memorandum is a field report describing geophysical surveys conducted on the Rau property. The induced polarization (IP) surveys included modified pole-dipole IP on 3 lines over and around the mineralization found to date on the property. The survey was conducted from August 4 to August 13, 2009, based out of the Silver Trails Lodge at Halfway Lakes. A full survey log describing day by day operations is attached to this report.

The modified pole-dipole surveyed a total of 4.2 line-km (3 lines) completed over 6 working days on lines put in prior to the arrival of the Aurora IP crew. There were two weather days due to un-flyable conditions. Production was hampered by both poor weather and logistical difficulties (wildlife on the grid, widely spaced lines in steep terrain) but also by very poor ground conditions. Some areas had very thin to no soil making contact resistance high and the central part of the grid was very conductive causing a poor signal to noise ratio. Consequently many repeats were needed and reliable data was not routinely collected to the farthest offsets.

a. Crew and equipment.

The survey was conducted by the following personnel:

Steven Kramar	Crew chief	Aug 4th – 13th, 2009
Andre Lebel	Helper	Aug 4th – 13th, 2009

Ellen Nielsen	Helper	Aug 4th – 13th, 2009
Ben Power	Helper	Aug 4th – 13th, 2009

The crew was equipped with the following instruments and equipment:

IP receiver	1	Iris Elrec Pro
IP transmitter	1	GDD TxII 3.6 kW
Generator	1	Honda 5kW generator
IP equipment	1	Repair tools & spare IP parts
	8 km	18 gauge wire
	4	VHF handheld radios
		Georeels & spools ,and stainless steel electrodes
Other	1	Laptop with Geosoft IP package
	1	Truck

b. Survey specifications.

The modified pole-dipole IP surveys were conducted according to the following specifications:

Array	Modified Pole-Dipole Array
Dipole spacing	50 m on all lines
Dipoles Read	N=1 through 10 when possible
Tx	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.
Stacks	Minimum 15
Rx error	5 mV/V or less, otherwise repeated several times until repeatability assured
Grid registration	Handheld GPS points at line ends and every 400m minimum averaged 60 s or until estimated accuracy < 10 m, whichever was longer. All coordinates in

NAD83 UTM Zone 8N.

c. Data Processing.

Data was downloaded nightly from the receiver and imported into Geosoft Oasis Montaj IP package. Every reading was inspected and readings which did not repeat were rejected from the database. Apparent resistivity was recalculated using a four electrode equation assuming a homogeneous earth. Average apparent resistivity and chargeability were calculated using a weighted mean based on the number of stacks and the standard deviation of the chargeability.

GPS points were dumped from the handheld units and the coordinates for the stations determined by linear interpolation between GPS units. Elevations were determined from a digital elevation model equivalent to NTS 1:50:000 map sheet 115 I/14.

Prior to 2D resistivity modelling, errors in the apparent conductance were assigned to the data. There is no means of directly quantifying these errors because neither the transmitter nor receiver records the error in the current or voltage. Errors were assumed to be 0.001 + 5% S/m. Following error assignment, the data were inverted with a deep mesh due to high topographic relief. Default initial and reference models based on an average of the apparent resistivity were used. After the default run, the data were inverted a second time using initial and reference models of 10000 Ohm-m, a much higher value than the average in the survey area. The purpose of this second run is to generate a model with a background resistivity greatly different than the average values used in the default run. After the second run, the two models were compared and the area where the models differed by a factor more than 30% on lines 9650 and 10400 and 40% on line 10120 was removed from the default run model. These points are not sensitive to the field data and there is no reliable subsurface information. Chi factors were adjusted to 2.0, 12.0 and 9.0 on lines 9650, 10120 and 10400 to ensure convergence and an appropriate level of structure to the model.

Prior to 2D chargeability modelling, the observed standard deviation of chargeability was used as a measure of error for apparent chargeability. To avoid zero errors, a minimum of 0.2 mV/V was added to each error measurement. The IP data were first inverted using default values (initial and reference model of a 0 mV/V half-space), with the same mesh as the resistivity modelling, using the default recovered resistivity model. After the first run, the data were inverted a second time using initial and reference models of 100 mV/V (a much higher value than the average in the survey area). The two models were then compared and regions in the default model which varied more than 20% were removed in the final models. In these regions, the final model is not sensitive to the field data and there is no reliable subsurface information. Chi factors were adjusted to 4.0, 5.0 and 1.0 on lines 9650, 10120 and 10400

respectively ensure convergence and an appropriate level of structure to the model.

Pseudosections of apparent resistivity, apparent chargeability, and apparent chargeability error, draped over topography, were produced with Oasis Montaj along with the recovered models plotted at the same scale.

d. **Products**.

The following files are appended to the digital version of this report:

Data\Rau_IP_final.gdb Data\Rau_IP_final.xyz Data\channels.txt Data\Rau_GPS.xyz	Final data in Geosoft ASCII xyz and gdb format. The GPS files have all GPS coordinates taken in NAD83, UTM zone 8N coordinates. The file channels.txt describes the columns of Rau_IP_final.xyz file.
Images\2D inversion Images\L9650_Composite_section.pdf Images\L10120_Composite_section.pdf Images\L10400_Composite_section.pdf	2D inverision images of the models with convergence curves and predicted versus observed data. The composite section show pseudosections of apparent resistivity, apparent chargeability and apparent chargeability error and recovered models of resistivity and chargeability all at a scale of 1:5000.
Raw	A folder with all the raw instrument dump files.
Rau 2009 IP Field Report.pdf	A PDF of this report.
ATC-9544-YT Rau IP Daily Report.pdf	Survey log

e. **Results**.

L10400 – There is a well defined chargeability high situated at station 9900, elevation 1300 m that is in between two conductive zones. This is suggestive of a further sulphide zone south of baseline 10000.

L10120 – A chargeability high is centered at station 10075 at an elevation of 1250 m. This matches fairly well with the known sulphide mineralization as described on the ATAC website. The very conductive zone immediately to the NE of the chargeability high could represent the volcanics package.

L9650 – A conductive zone is centered at station 10000 approximately 100 metres below surface. A broad zone of elevated chargeability extends from station 9900 to 10600 with several small near surface local highs within the broader zone.

If infill lines were to be surveyed, a 3D inversion could be performed to recover a 3D resistivity and chargeability model.

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Dave Hildes
Geophysicist

FIELD