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**ASSESSMENT REPORT**

describing

**GEOCHEMICAL SAMPLING AND PROSPECTING**

at the

**ROSY PROPERTY**

Rosy 1-20	YC18054-YC18073
21-30	YC18159-YC18168
31-90	YC83534-YC83593

NTS 105C/13

Latitude 60°56'N; Longitude 133°45'W

located in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**ATAC RESOURCES LTD.**  
and  
**BONAPARTE CAPITAL CORP.**

by

H. Smith, B.Sc. Geology, GIT  
January 2010

## **CONTENTS**

	<b><u>PAGE</u></b>
INTRODUCTION	1
PROPERTY LOCATION, CLAIM DATA AND ACCESS	1
HISTORY	1
GEOMORPHOLOGY	3
REGIONAL GEOLOGY	3
PROPERTY GEOLOGY AND MINERALIZATION	5
ROCK GEOCHEMISTRY	6
SOIL GEOCHEMISTRY	7
DISCUSSION AND CONCLUSIONS	7
REFERENCES	9

## **APPENDICES**

- I STATEMENT OF QUALIFICATIONS
- II ROCK SAMPLE DESCRIPTIONS
- III CERTIFICATES OF ANALYSIS

## **FIGURES**

<u>No.</u>	<u>Description</u>	<u>Follows Page</u>
1	Property Location	1
2	Claim Locations	1
3	Tectonic Setting	3
4	Regional Geology	4
5	Property Geology	5
6	Rock Sample Locations	6
7	Gold Rock Geochemical Compilation	6
8	Silver Rock Geochemical Compilation	6
9	Arsenic Rock Geochemical Compilation	6
10	Soil Sample Locations	7
11	Gold Soil Geochemical Compilation	7
12	Silver Soil Geochemical Compilation	7
13	Arsenic Soil Geochemical Compilation	7

## **TABLE**

<u>No.</u>	<u>Description</u>	<u>Page</u>
I	Regional Lithological Units	4

## **INTRODUCTION**

The Rosy property covers a gold-silver prospect located five kilometres south of the Red Mountain porphyry molybdenum deposit in southern Yukon. The property consists of 90 claims that are owned 100% by ATAC Resources Ltd. subject to an option agreement with Bonaparte Capital Corp.

This report describes prospecting and geochemical sampling conducted by a two person crew between September 12 and 14, 2009. All work was done by Archer, Cathro & Associates (1981) Limited on behalf of ATAC. The author directed the program and her Statement of Qualifications is in Appendix I.

## **PROPERTY LOCATION, CLAIM DATA AND ACCESS**

The Rosy property comprises 90 contiguous mineral claims located 77 km east-northeast of Whitehorse in southern Yukon at latitude 60°56'N and longitude 133°45'W on NTS 105C/13, as shown on Figure 1. The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Claim data are listed below while the locations of individual claims are illustrated on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Rosy 1-20	YC18054-YC18073	March 21, 2018
21-30	YC18159-YC18168	March 21, 2018
31-90	YC83534-YC83593	March 21, 2013

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

In 2009, the crew stayed in Whitehorse and mobilized to and from the property daily using a Bell 206B helicopter owned and operated by Capital Helicopters (1995) Inc. of Whitehorse.

The closest road access to the property is the Sydney Creek trail, which services placer workings about 25 km southeast of the property. An abandoned winter road extends northwest from the Sydney Creek trail to the Red Mountain Deposit, passing through the east side of the Rosy property. That trail has recently been permitted for upgrade to a road route by the operators of the Red Mountain property, but road construction has not yet begun.

## **HISTORY**

The first recorded activity in the vicinity of the Rosy property occurred in 1935 when silver-lead-zinc veins on the edge of the Red Mountain porphyry molybdenum deposit were staked. These occurrences consist of galena and sphalerite in quartz-carbonate veins cutting metasedimentary rocks. They have been staked and explored by a number of operators over the years and are currently owned by another party.

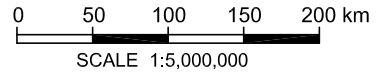
The Red Mountain Deposit is marked by a prominent red gossan and comprises quartz stockwork veining associated with a Late Cretaceous quartz monzonite stock. It was first drilled

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FIGURE 1

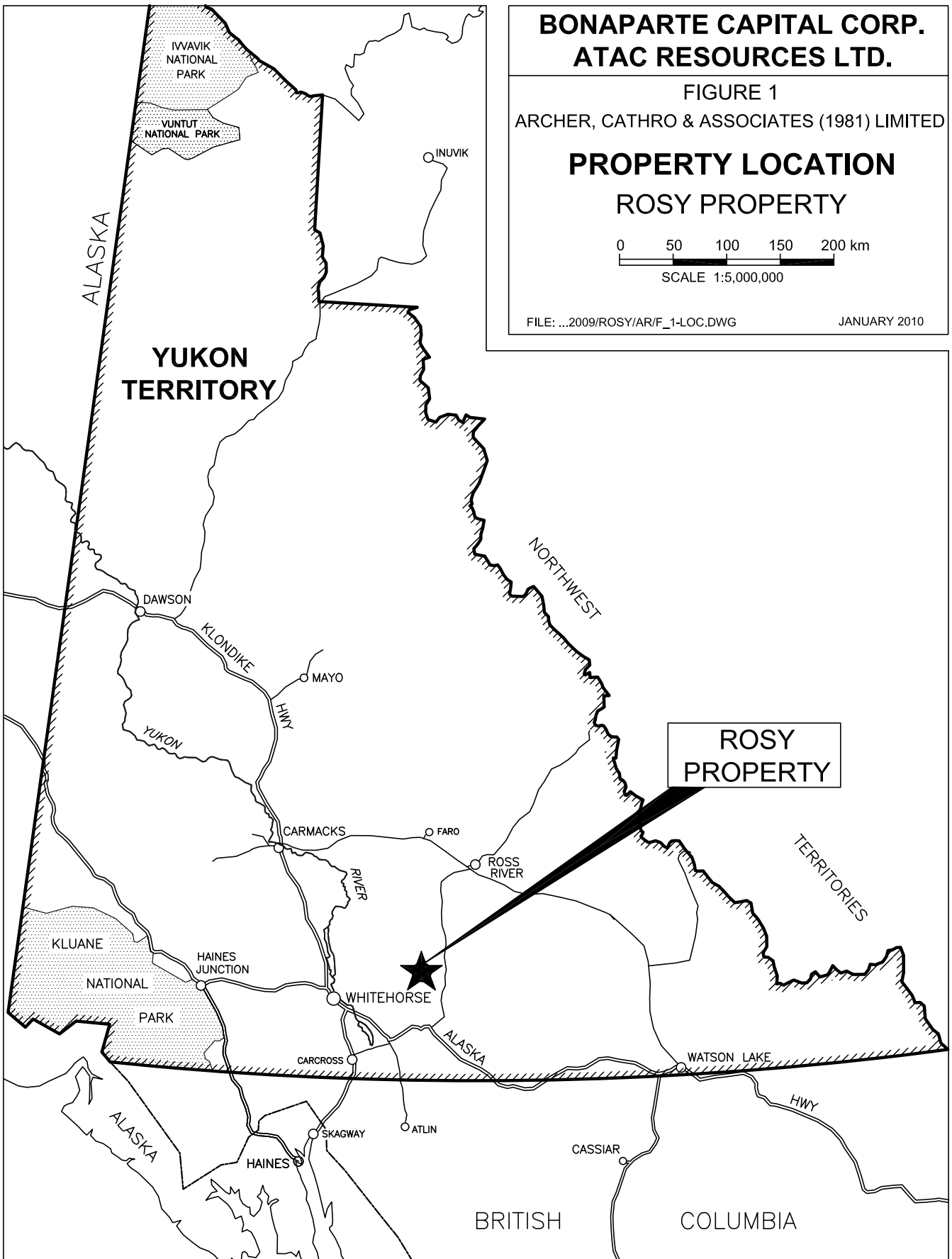
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

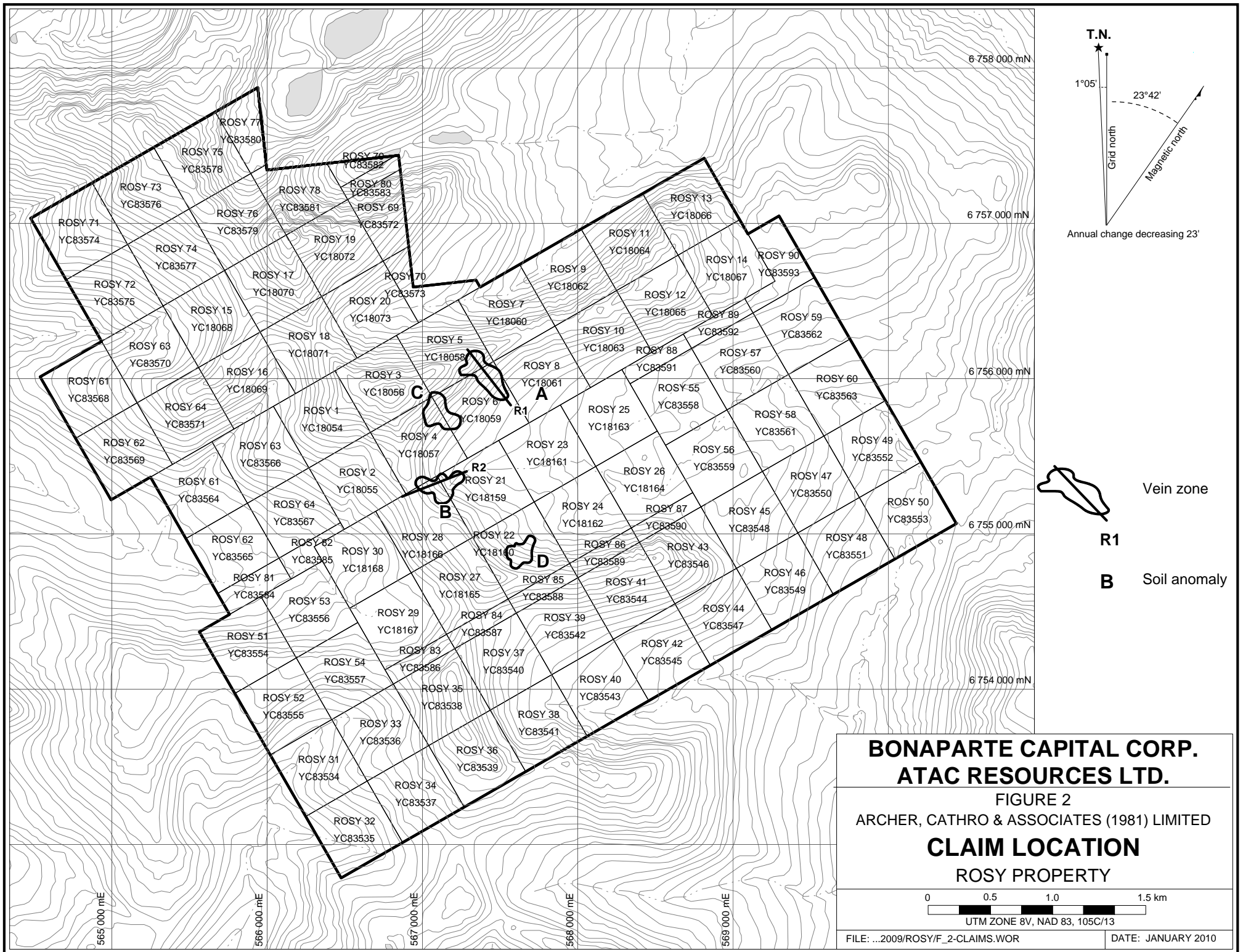
**PROPERTY LOCATION  
ROSY PROPERTY**



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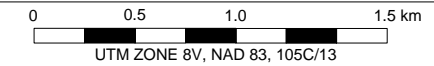
JANUARY 2010





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FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATION**  
ROSY PROPERTY



in 1967 but the main exploration program was conducted in the late 1970s by Amoco Canada, which earned a 50% interest from the owner Tintina Mines. Drill indicated reserves are reported to be 170 million tonnes grading 0.167% MoS<sub>2</sub>, including 19.3 million tonnes averaging 0.293% MoS<sub>2</sub> (Deklerk and Traynor, 2005). Gold content is low in the porphyry deposit and is inversely proportional to molybdenum content.

Recent prospecting on the Rosy property discovered numerous very old claim posts that likely date from the 1930s or 1940s. There is no record of this staking or any exploration related to it.

The first reported staking on what is now the Rosy property occurred in July 1986 immediately following the release of geochemical results from a reconnaissance stream sediment sampling program conducted by the Geological Survey of Canada (Open File 517). All-North Resources staked the Was 1-6 claims in the headwaters of a creek, which returned 95<sup>th</sup> percentile values for gold (36 ppb), arsenic (121 ppm) and antimony (2.8 ppm). Concurrently, Noranda Exploration Company Limited staked the Saw 1-6 claims on a north-facing slope further downstream to cover another part of the anomalous drainage.

Both All-North and Noranda conducted reconnaissance mapping and soil sampling in 1987. All-North reported quartz vein float that assayed up to 1.3 g/t gold and 102 g/t silver associated with a soil anomaly containing values up to 145 ppb gold and 9 ppm silver (Garagan, 1987). Noranda found quartz-carbonate alteration zones, samples of which returned low values. No further work was done on either property and the claims were allowed to lapse.

ATAC restaked the property in summer 1999 and explored later that year with prospecting and soil geochemistry. That work outlined several veins marked by recessive linears and strongly anomalous gold, silver and arsenic soil geochemical results (Eaton, 1999). ATAC conducted further prospecting and soil geochemical sampling in 2004, which discovered additional veins and expanded the area of anomalous geochemistry (Eaton, 2004).

In September 2007, a property wide helicopter-borne total field magnetic and versatile time domain electromagnetic (VTEM) survey was conducted on behalf of ATAC. Neither geophysical survey defined specific targets. Total field magnetics showed a strong correlation to geological units (Wengzynowski, 2008). VTEM produced a few discrete conductors, some of which are in the vicinity of mineralized veins, but none of those features is well defined.

Valere optioned the property in spring 2008. The 2008 exploration program comprised geochemical sampling, geological mapping and prospecting. This work identified one new vein zone (R1), followed up a known vein zone (R2) and highlighted four gold-in-soil anomalies labelled A to D, respectively (Figure 2).

R1 is a 15 to 20 m wide by 20 m long area of rusty orange soil containing quartz-carbonate vein float and minor amounts of altered intrusive rock. Quartz vein material is typically grey and has rare chalcedonic clots. Mineralization consists of finely disseminated pyrite and arsenopyrite, millimetre-scale stringers of arsenopyrite, minor pyrite cubes and rare limonitic pits. Samples of this vein material returned values ranging from 2140 to 4420 ppb gold while samples of altered intrusive rock hosting centimetre thick clear to white quartz veinlets with minor disseminated

pyrite and trace disseminated arsenopyrite yielded 1090 and 1790 ppb gold. R2 is a 20 m wide area of orange-brown rusty soil containing scattered quartz-carbonate float. The highest historical value from R2 is 35,920 ppb gold. In 2008, five samples from R2 returned between 2410 and 5840 ppb gold (Smith, 2008). Each of the gold-in-soil anomalies are summarized below.

Anomaly A is 500 m long and forms a linear northwesterly trending band that corresponds to the R1 vein. Eight soil samples taken on a south-facing sidehill returned greater than 500 ppb gold and six of those exceeded 1000 ppb, to a maximum of 1820 ppb gold. To the north, this anomaly extends across a ridge crest onto a cliff-face, which could not be sampled, and from there under a talus- and till- covered valley. To the south, the anomaly projects into a broad silt covered valley. Anomaly B is 350 m long and coincides with the R2 vein. Part of this anomaly is defined by results from a pre-2008 detail grid. The three best soil samples from that grid averaged 670 ppb, with a peak value of 835 ppb gold (Eaton, 2004). The highest value from samples taken in 2008 was 581 ppb gold. Anomaly C lies between Anomalies A and B. It is 250 m long and exhibits a northwest trend, sub-parallel to Anomaly A. The maximum value is 648 ppb gold. This anomaly is located near two anomalous rock samples collected during a previous program but a bedrock source has not been identified. Anomaly D comprises a cluster of five soil samples spread over a 300 by 150 m area. The highest sample yielded 571 ppb gold. This anomaly is located in a part of the property where little prospecting and mapping have been done (Smith, 2008).

Bonaparte optioned the property in spring 2009.

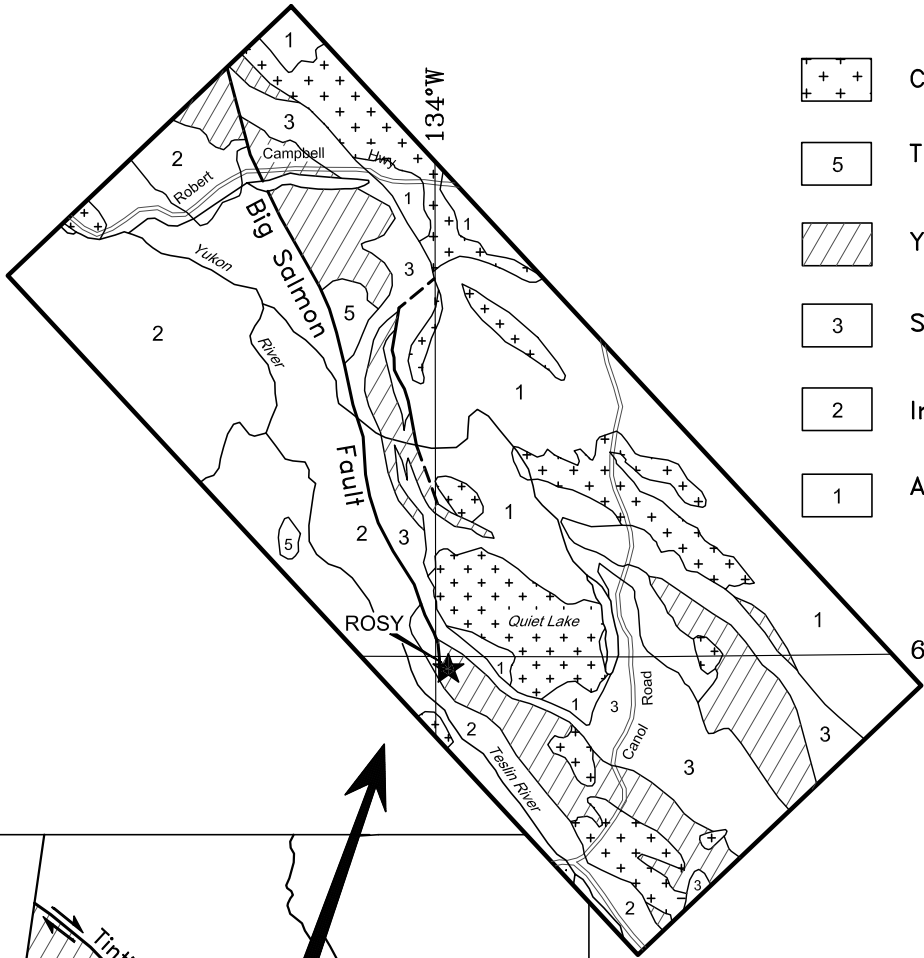
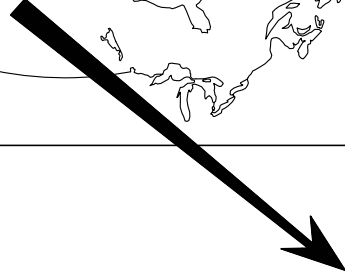
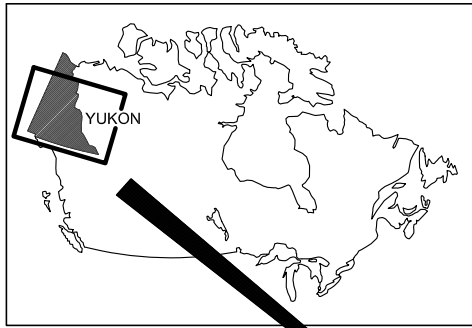
### **GEOMORPHOLOGY**

The claims cover a series of ridges and glacial valleys, most of which are above tree line. The highest point on the property is a prominent peak located in the northern part of the property, which reaches 2094 m. Elevations elsewhere range between 1300 and 1900 m. North facing slopes are characterized by cliffs and unstable talus. South facing slopes are steep but relatively accessible and feature outcrops separated by grass- or buckbrush-stabilized talus.

Valley floors are generally narrow in their headwaters, where talus encroaches from surrounding slopes, but become broad and relatively flat bottomed further downstream, where they are blanketed by glacial and fluvial material. In the southeast part of the property there is an extensive upland marsh that appears to have formed where an old tarn lake has completely filled with silt. Creeks draining the property all ultimately drain into the Teslin River, which is part of the Yukon River watershed.





### **REGIONAL GEOLOGY**

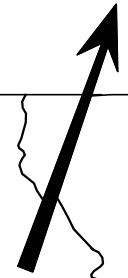
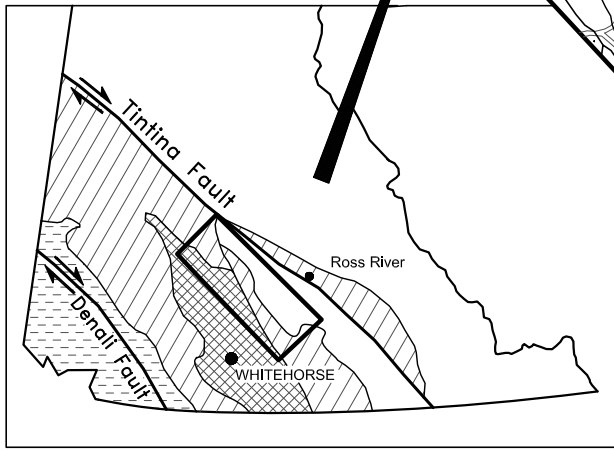
The Rosy property lies in a structurally complex area where large faults have juxtaposed various metamorphosed volcanic, sedimentary and intrusive rocks, belonging to the Yukon-Tanana, Slide Mountain, Cassiar, and Stikinia terranes (Figure 3). Previous mappers have interpreted this area to be a steeply dipping suture zone marking accretion of an island arc to North America during Jurassic times (Tempelman-Kluit, 1979). Recent detailed structural mapping led to



-  Cretaceous Plutons
-  Triassic and Jurassic Plutons
-  Yukon-Tanana Terrane
-  Slide Mountain Terrane
-  Intermontane Belt
-  Ancestral North America including Cassiar Terrane

SCALE 1:2,000,000  
0 50  
km

-  Coastal and Insular Belts
-  Intermontane Belt
-  Yukon-Tanana Terrane and Slide Mountain Terrane
-  Ancestral North America including Cassiar Terrane



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FIGURE 3  
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**TECTONIC SETTING**  
**ROSY PROPERTY**

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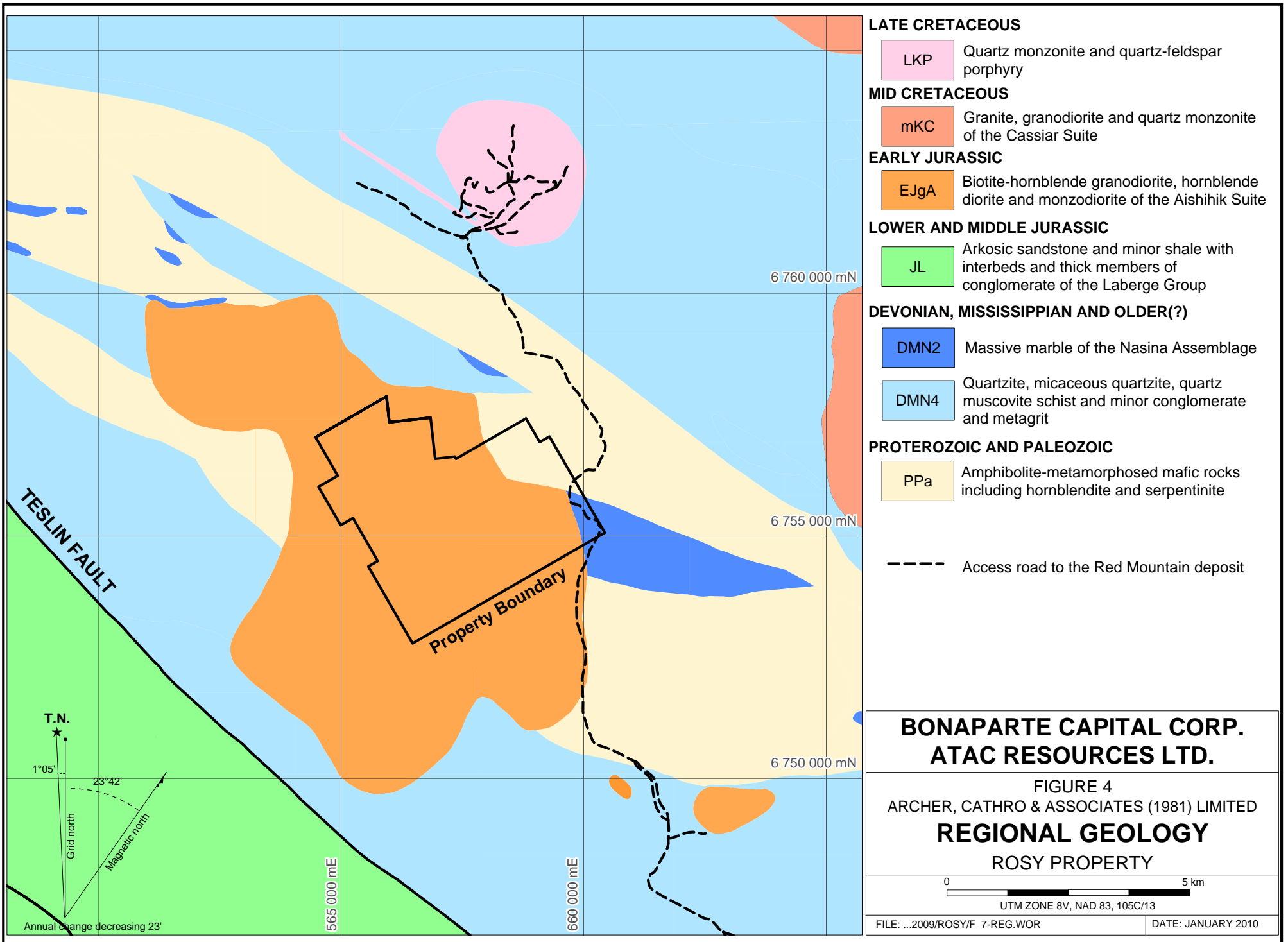
reinterpretation, which indicates that the steep dips are the result of a large-scale fold (de Keijzer, et al., 1999). Figure 4 illustrates regional geology based on a compilation done by Gordey and Makepeace (1999). Units observed on the Rosy property are assigned to the Nasina Subterrane of the Yukon-Tanana Terrane, an unnamed amphibolite subterrane of the Slide Mountain Terrane and a suite of post-accretion plutons (Gordey and Makepeace, 1999).

The metamorphic rocks are schist, gneiss, quartzite and marble that are believed to be Devonian or earlier in age (Gordey and Stevens, 1994). They are intruded by Early Jurassic and Cretaceous plutons. The youngest rocks are a Late Cretaceous quartz monzonite stock and related miarolitic quartz-feldspar porphyry dykes. The stock hosts the Red Mountain Deposit. The main lithologies are briefly described in the following table.

**Table I - Regional Lithological Units (after Gordey and Stevens, 1994)**

<u>Age</u>	<u>Unit Name</u>	<u>Description</u>
Pleistocene to recent	Overburden	Glacial till and moraines; glaciofluvial outwash and more recent talus and fluvial material
Late Cretaceous	LKP	Quartz monzonite and quartz-feldspar porphyry
Mid-Cretaceous	mKC	Medium- to coarse-grained, equigranular to porphyritic granite, granodiorite and quartz monzonite of the Cassiar Suite
Early Jurassic	EJgA	Medium-to coarse-grained, foliated biotite-hornblende granodiorite, foliated hornblende diorite and monzodiorite of the Aishihik Suite
Lower and Middle Jurassic	JL	Poorly sorted, medium bedded to massive arkosic sandstone and minor shale with interbeds and thicker members of heteroclastic pebble- and boulder-conglomerate of the Laberge Group
Devonian, Mississippian and older(?)	DMN	Graphitic quartzite and muscovite- and quartz-rich schist with interspersed marble of the Nasina Assemblage
	DMN2	Massive marble of the Nasina Assemblage
Paleozoic or Proterozoic	PPa	Amphibolite consisting of metamorphosed mafic rocks, including hornblendite and serpentinite

The main structural trend in the area is northerly to northwesterly. The Teslin Fault, a regional-scale, post-accretionary, high angle structure is located about five kilometres southwest of the



**LATE CRETACEOUS**

**LKP** Quartz monzonite and quartz-feldspar porphyry

**MID CRETACEOUS**

**mKC** Granite, granodiorite and quartz monzonite of the Cassiar Suite

**EARLY JURASSIC**

**EJgA** Biotite-hornblende granodiorite, hornblende diorite and monzodiorite of the Aishihik Suite

**LOWER AND MIDDLE JURASSIC**

**JL** Arkosic sandstone and minor shale with interbeds and thick members of conglomerate of the Laberge Group

**DEVONIAN, MISSISSIPPIAN AND OLDER(?)**

**DMN2** Massive marble of the Nasina Assemblage

**DMN4** Quartzite, micaceous quartzite, quartz muscovite schist and minor conglomerate and metagrit

**PROTEROZOIC AND PALEOZOIC**

**PPa** Amphibolite-metamorphosed mafic rocks including hornblende and serpentinite

--- Access road to the Red Mountain deposit

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FIGURE 4  
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**REGIONAL GEOLOGY**  
ROSY PROPERTY

0 5 km

UTM ZONE 8V, NAD 83, 105C/13

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DATE: JANUARY 2010

property (Figure 4). Rocks on the southwest side of the Teslin Fault are quite different from those on the northeast side. They belong to the Whitehorse Trough, part of the Stikinia Terrane.

### **PROPERTY GEOLOGY AND MINERALIZATION**

The property is predominantly underlain by weakly foliated metadiorite (EJgA) with lesser quartz-hornblende and quartz-feldspar-hornblende gneiss (DMN), as shown on Figure 5. A fault-bounded package of coarse grained, unfoliated, amphibolite (PPa) outcrops on the ridge in the northeastern part of the property. The southern fault contact of PPa juxtaposes it against a wedge of massive marble belonging to the Nasina Assemblage (DMN2).

The primary structural features on the property are a series of strong north-south trending linears and a less obvious, secondary set of northeast-southwest trending linears that cuts orthogonally across the main structural trend. Individual linears in both sets range from 1 to 10 m wide and exhibit moderate to steep dips to the southeast. Sharp breaks separate unaltered resistant-weathering wallrocks from altered recessive-weathering rocks in the linears. The linear features are most evident on ridge crests and cliffs because blocky, unaltered wallrock talus tends to obscure them on normal hillsides.

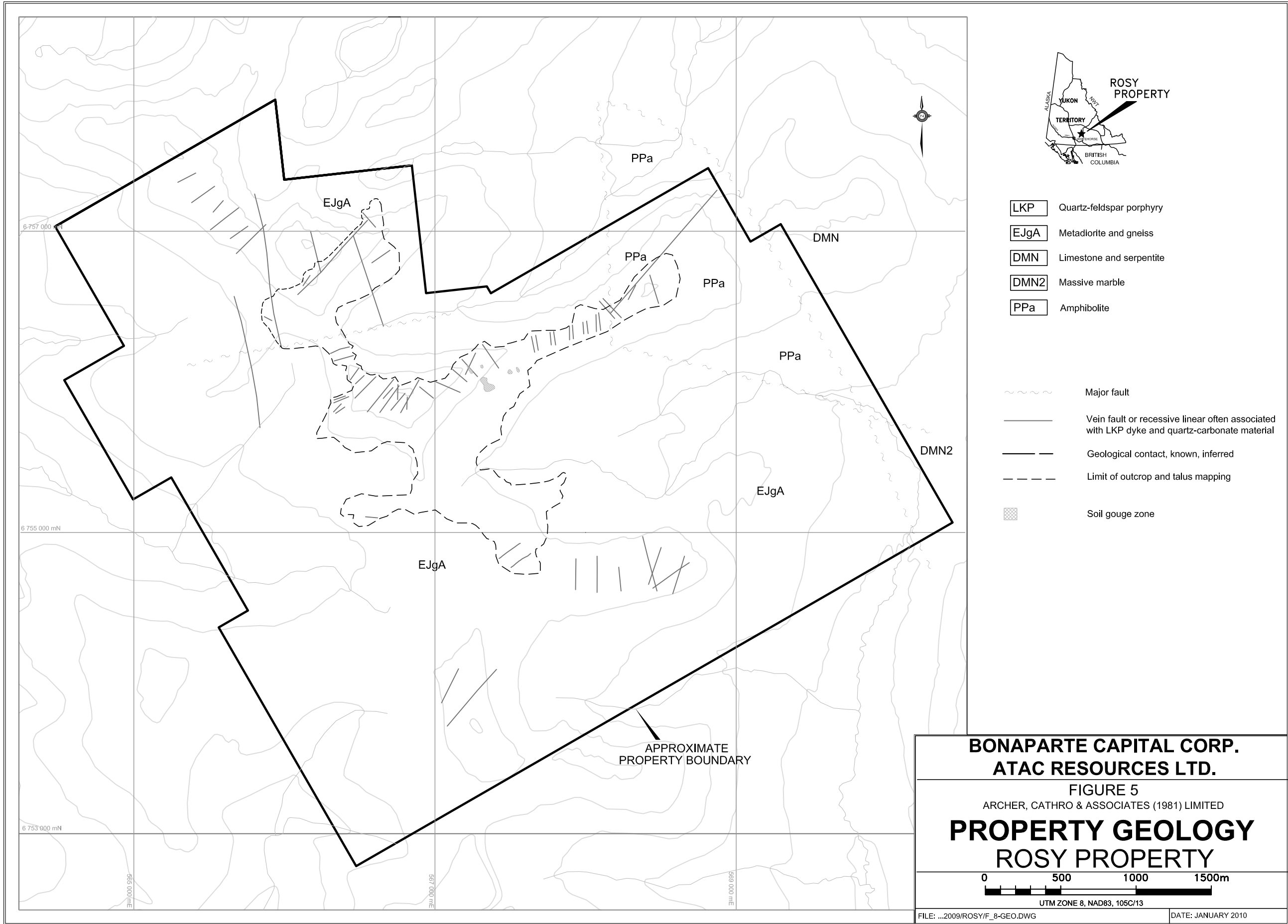
Numerous cream to pink weathering, quartz-feldspar porphyry dykes (LKP) have been identified on the property. These dykes are generally less than 10 m thick and can be traced along strike for tens to a few hundred metres. They exhibit a variety of strikes but all dip steeply. Many of the dykes have strong recessive linears associated with them and are flanked by quartz-carbonate veins and/or carbonate altered wallrocks.

More than 35 quartz-carbonate veins have been mapped on the property. They occur with gouge zones, quartz-feldspar porphyry dykes and carbonate altered wallrocks, usually within the recessive linears. They are rarely seen in outcrop. Where the veins are exposed in bedrock, they are typically less than 80 cm wide and contain milky white to light grey, often chalcedonic, quartz. Carbonate normally occurs with the quartz. It weathers orange to red-brown and is likely a mixture of ankerite and dolomite. The veins often exhibit differential weathering that highlights delicate interbanding of quartz and carbonate. Most of the quartz-carbonate veins are hosted by EJgA and are surrounded by one to three metre wide alteration envelopes. These envelopes exhibit rusty weathering surfaces and pervasive yellow to green clay alteration. Angular fragments of altered wallrock are occasionally seen within vein zones.

A number of late-stage, barren, white quartz veins crosscut all units on the property.

The Rosy property hosts two main types of mineralization. The first occurs within quartz-carbonate veins and the second is found in altered intrusive rocks.

Primary mineralization within the veins consists of pyrite, lesser arsenopyrite, and rare chalcopyrite. These sulphides typically total 1 to 10% of the veins. They occur as fine disseminations, blebs and stringers hosted in medium grey quartz. There is a weak positive correlation between the abundance of pyrite and that of arsenopyrite. Arsenopyrite and chalcopyrite abundance is also strongly correlated, but there is little apparent correlation between



pyrite and chalcopyrite. On weathered surfaces, the primary sulphide minerals have been oxidized and leached to produce limonitic pits. Alteration envelopes peripheral to veins are generally riddled with white quartz veinlets. These quartz veinlets contain 1 to 5% sulphides, consisting of finely disseminated pyrite and arsenopyrite.

The other type of mineralization is found in intrusive rocks of EJgA. In most parts of the property, EJgA contains trace pyrite and rare arsenopyrite, which weather to give the unit a weakly gossanous appearance.

### **ROCK GEOCHEMISTRY**

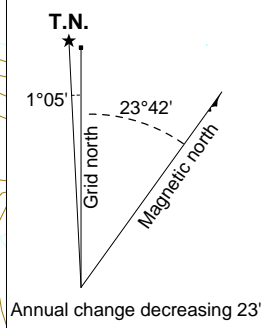
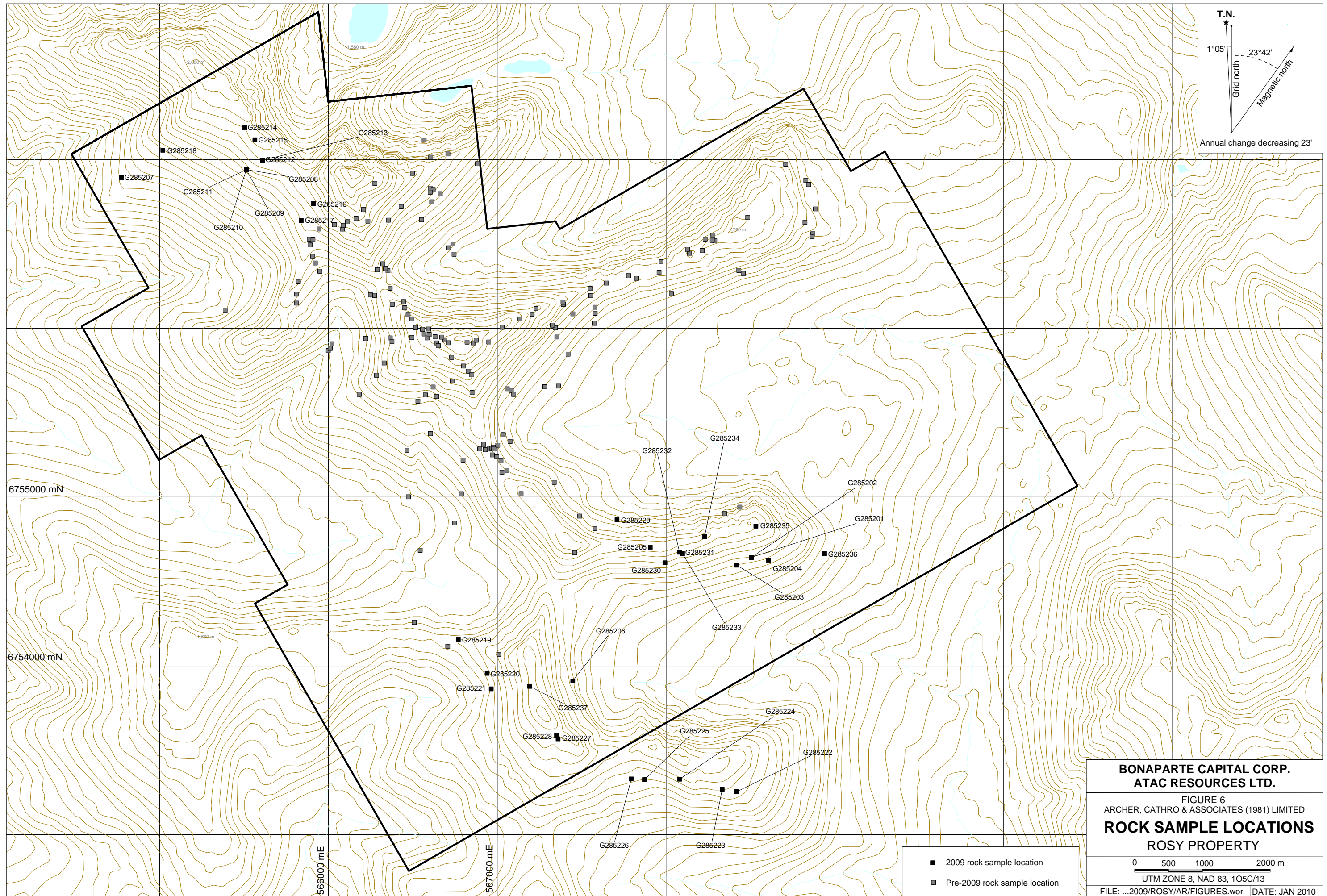
In 2009, prospecting was done simultaneously with contour soil sampling. This work focussed on identifying rusty, recessive linear zones and mineralized vein material in previously unprospected areas on the property. Thirty-seven rock samples were taken, and their locations are illustrated on Figure 6. Multi-element analyses (Au-ICP21 and ME-ICP41) for rock samples were carried out at ALS Chemex in North Vancouver, B.C. Each sample was dried, fine crushed to better than 70% passing -2 mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay followed by atomic absorption (AA) finish and for 35 other elements using a nitric acid-aqua regia digestion and ICP analysis. Rock sample descriptions can be found in Appendix II. Certificates of Analysis are provided in Appendix III, while results for gold, silver and arsenic are illustrated thematically on Figures 7, 8 and 9, respectively. Two new showings were discovered; R3 and R4, and they are described in the following paragraphs.

R3 comprises two samples taken approximately 200 m apart. The first sample was collected from a saddle on a ridge. It is a two centimetre wide quartz vein with trace calcite and 10% dark brown limonite in fractures. Mineralization in the vein consists of 0.5% disseminated arsenopyrite altering to scorodite. This sample yielded 1.45 g/t gold, 7.7 g/t silver and 8100 ppm arsenic. The other sample was found 200 m west of the ridge crest on a west facing talus slope. It is a quartz-carbonate vein with disseminated pyrite and arsenopyrite that returned 0.536 g/t gold, 1.7 g/t silver and 2260 ppm arsenic.

R4 is situated about 3000 m northwest of R3 in the northwestern part of the property. A talus sample of white quartz vein with a limonitic surface and a core of scorodite with very fine grained disseminated pyrite and arsenopyrite yielded 0.609 g/t gold, 2.5 g/t silver and 2910 ppm arsenic. A second sample of this vein material returned low gold, 39.1 g/t silver and 2040 ppm arsenic.

Historical and 2009 analytical results show strong correlations between gold, arsenic and antimony, and weak correlations between gold and silver.

No samples of intrusion hosted mineralization were collected in 2009.



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FIGURE 6  
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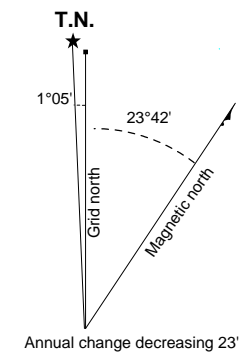
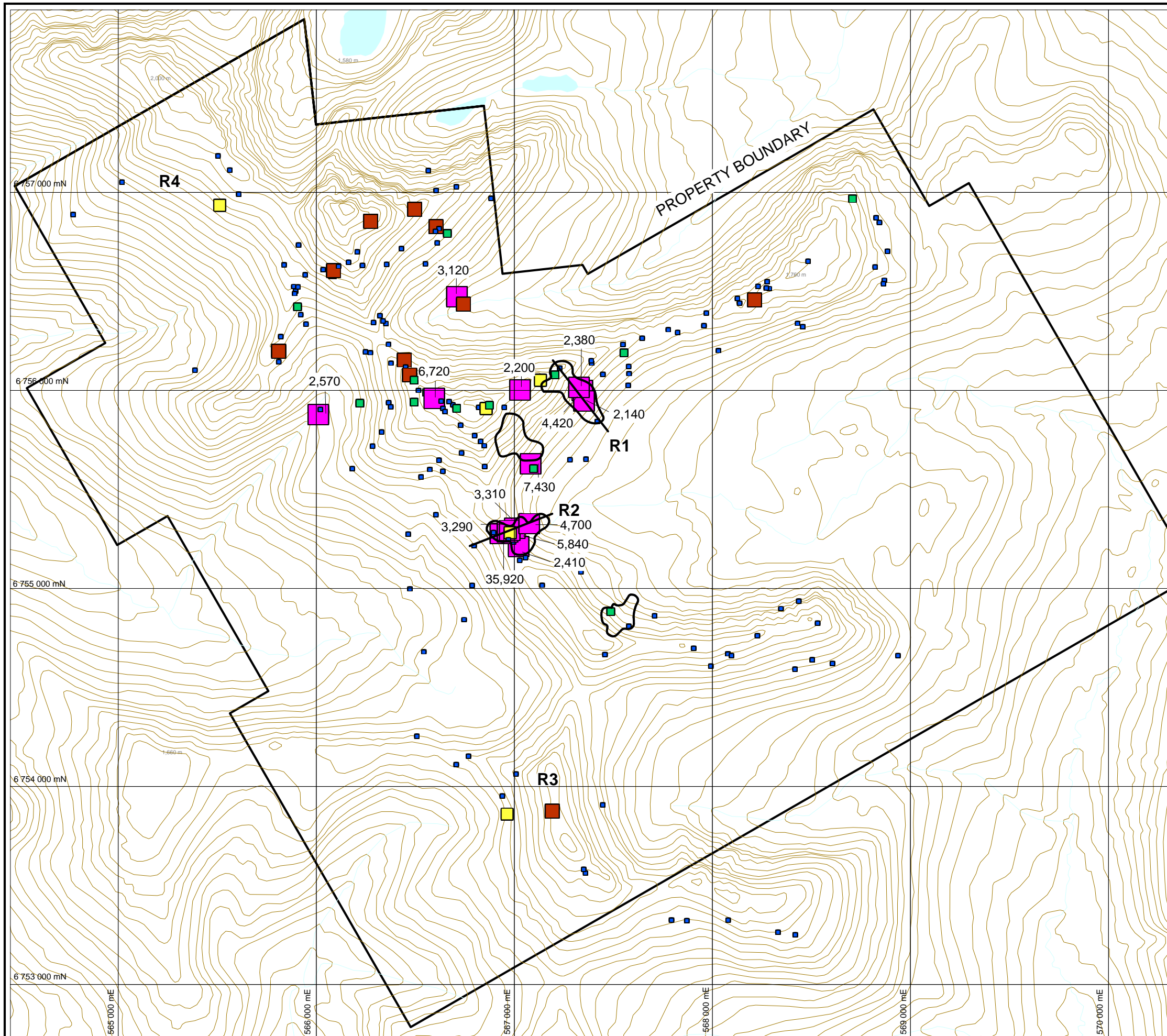
**ROCK SAMPLE LOCATIONS  
ROSY PROPERTY**

0 500 1000 2000 m

UTM ZONE 8, NAD 83, 105C/13

FILE: ...2009/ROSY/AR/FIGURES.wor DATE: JAN 2010

- 2009 rock sample location
- Pre-2009 rock sample location



- 2,380 Au value (ppb)
- Soil anomaly
- R1** Vein zone

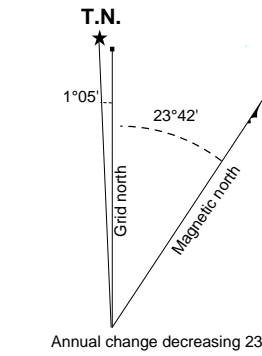
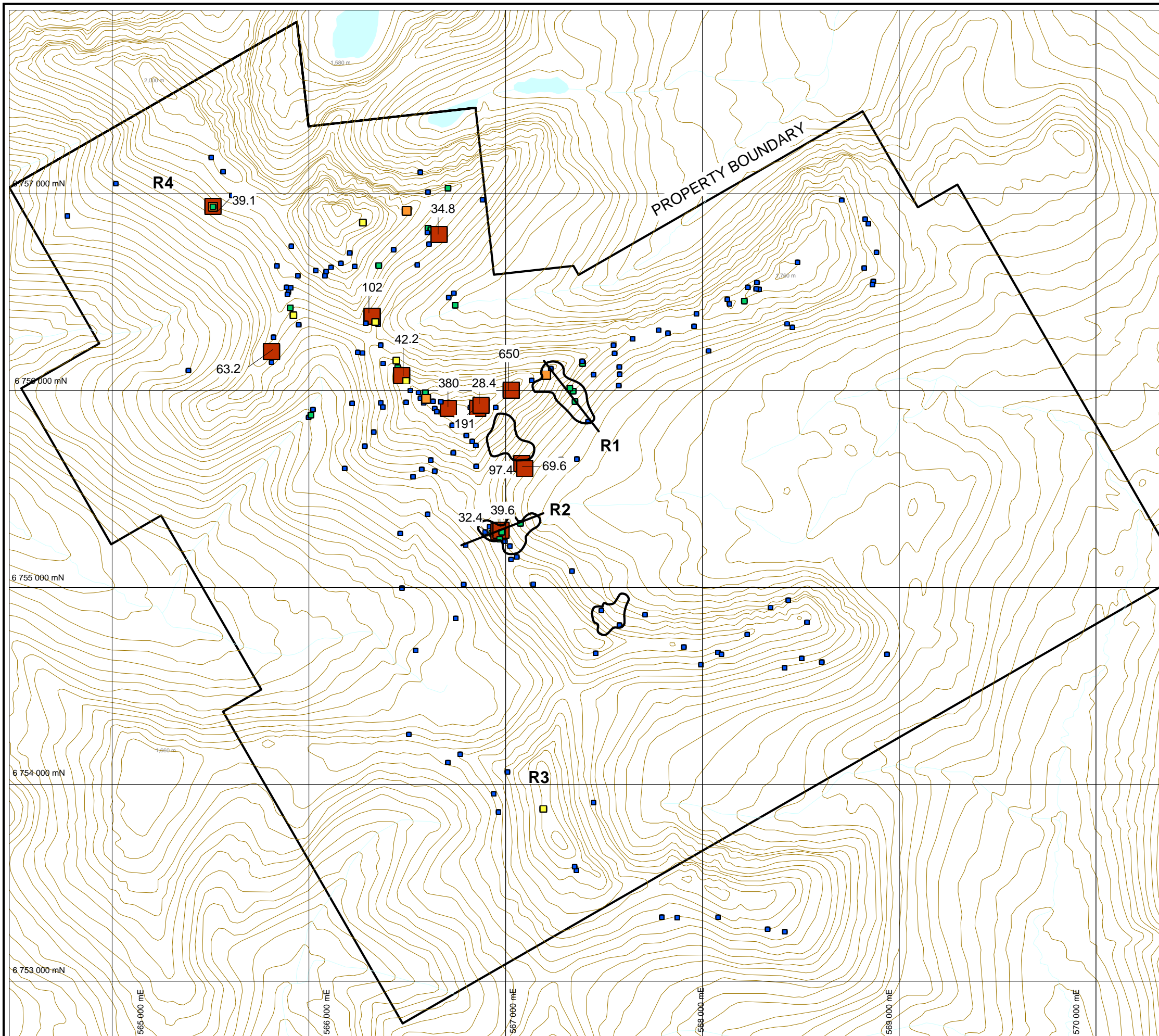
- Au Geochemistry (ppb)**
- ≥2,000
  - ≥1,000 <2,000
  - ≥500 <1,000
  - ≥200 <500
  - ≥0 <200

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**FIGURE 7**  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD ROCK GEOCHEMISTRY  
COMPILATION**  
ROSY PROPERTY

0 1 km  
UTM Zone 8, NAD83, NTS 105C/13

FILE: 2009/ROSY/Au GEOCHEM.WOR DATE: JANUARY 2010



- 63.2 Ag value (ppb)
- Soil anomaly
- R1** Vein zone

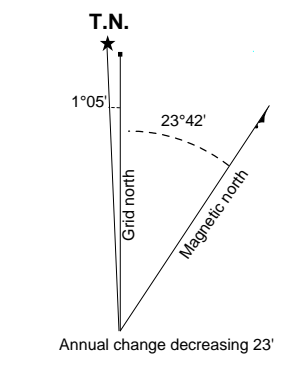
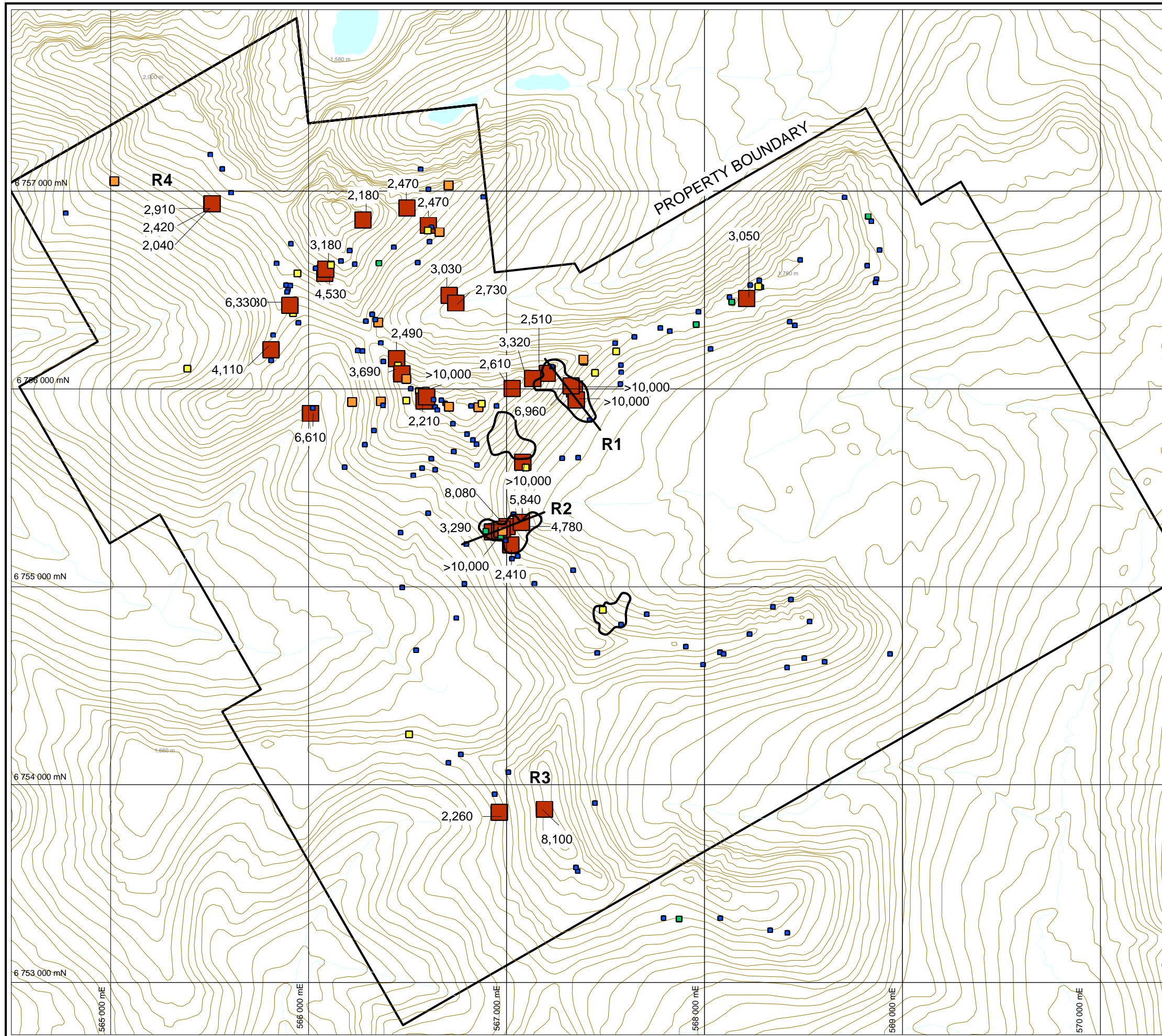
- Ag Geochemistry (ppm)**
- ≥25
  - ≥10 <25
  - ≥5 <10
  - ≥2 <5
  - ≥0 <2

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**FIGURE 8**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 SILVER ROCK GEOCHEMISTRY  
 COMPILATION  
 ROSY PROPERTY

0  1 km  
 UTM Zone 8, NAD83, NTS 105C/13

FILE: 2009/ROSY/Ag GEOCHEM.WOR      DATE: JANUARY 2010

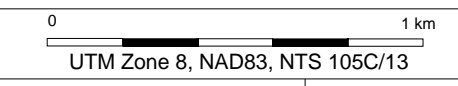


- 2,380 As value (ppb)
- Soil anomaly
- R1** Vein zone

- As Geochemistry (ppm)**
- ≥2,000
  - ≥1,000 <2,000
  - ≥500 <1,000
  - ≥250 <500
  - ≥0 <250

**BONAPARTE CAPITAL CORP.  
ATAC RESOURCES LTD.**

**FIGURE 9**  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC ROCK GEOCHEMISTRY  
COMPILATION**  
ROSY PROPERTY



## **SOIL GEOCHEMISTRY**

Pre-2009 grid soil sampling was performed at 50 m spacings on lines positioned 50 m apart over the centre of the property. These samples were mostly taken from shallow (20 to 30 cm) holes dug with mattocks. In addition, contour soil samples were taken at 50 to 100 m spacings on lines 100 to 200 m apart in the northern and northeastern parts of the property. Anomalies A to D lie within these sampled areas.

During the 2009 program, a total of 279 soil samples were collected from a number of contour soil lines in previously un-sampled parts of the property. Soil sample locations are illustrated on Figure 10. All soil sample sites were located by means of hip chain surveys with frequent checks using handheld GPS units. The sites were marked with two pieces of orange flagging labelled with the corresponding sample number. Certificates of Analysis are provided in Appendix III. Gold, silver and arsenic results are illustrated thematically on Figures 11, 12 and 13, respectively. These figures also illustrate soil geochemical values obtained from previous programs, which were the subjects of earlier assessment reports (Garagan, 1987, Eaton 1999 and 2004 and Smith, 2008).

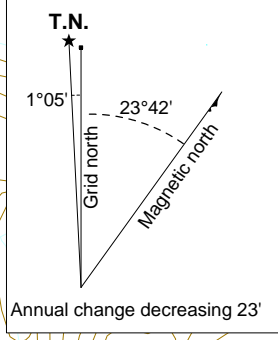
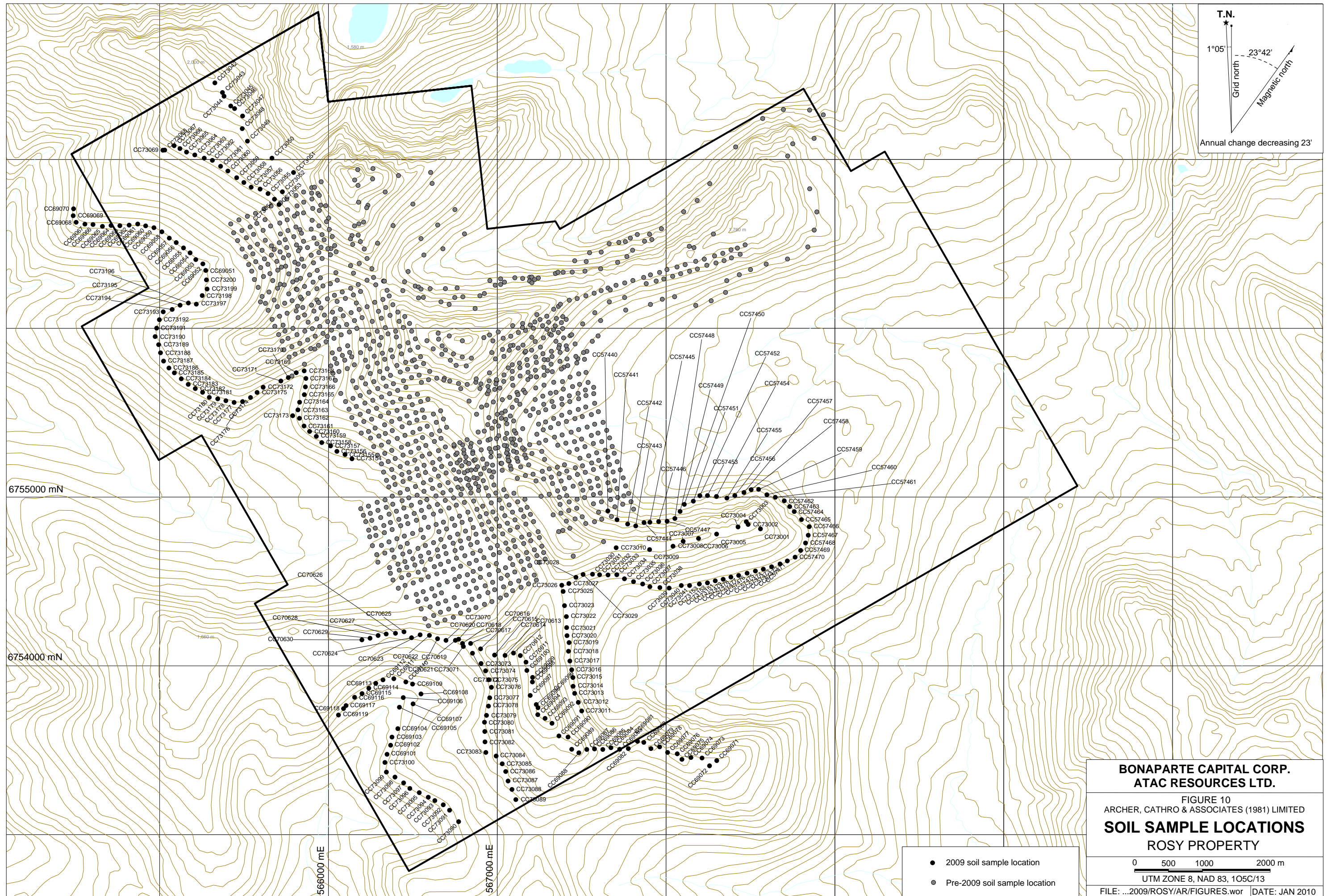
The compiled soil geochemical data have identified anomalous gold values in several areas of the property. Many of the anomalous values coincide with known veins or linears suspected to mark vein traces, but others are unexplained. Some of the anomalies are open to extension into untested areas. There is a strong positive correlation between gold, silver and arsenic values and a weak correlation between gold and silver. Thresholds for strongly anomalous values have been set at 200 ppb for gold, 10 ppm for silver and 1000 ppm for arsenic. Peak values are 1820 ppb, 30.9 ppm and >10,000 ppm, respectively.

Soil sample results from 2009 were generally low. Of the samples taken only one yielded strongly anomalous gold. This sample lies 150 m northwest of R3 and returned 621 ppb gold, low silver and 1410 ppm arsenic. Other soil samples collected in the vicinity of this sample and R3 returned low values for gold, silver and arsenic. No soil samples were collected in the immediate vicinity of R4 in 2009, but historical samples taken in that area yielded background to moderate gold values.

## **DISCUSSION AND CONCLUSIONS**

The Rosy property hosts widespread gold-and-silver bearing veins that appear to be spatially and temporally associated with Late Cretaceous intrusive activity. The litho-geochemical signature and textural features observed in veins and vein float, suggests that they are developed in a distal part of a large hydrothermal system, probably in a low sulphidation, epithermal setting. The nearby Red Mountain porphyry deposit is likely part of the same system. It exhibits a pronounced lithophile signature, which is characteristic of many Cretaceous age intrusions that are related to precious metal deposits elsewhere in Yukon.

The two best mineralized zones discovered to date on the property are the R1 and R2 veins. Neither is well exposed and both are open to extension along strike into talus-, till- and silt-

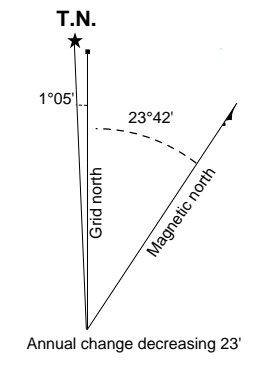
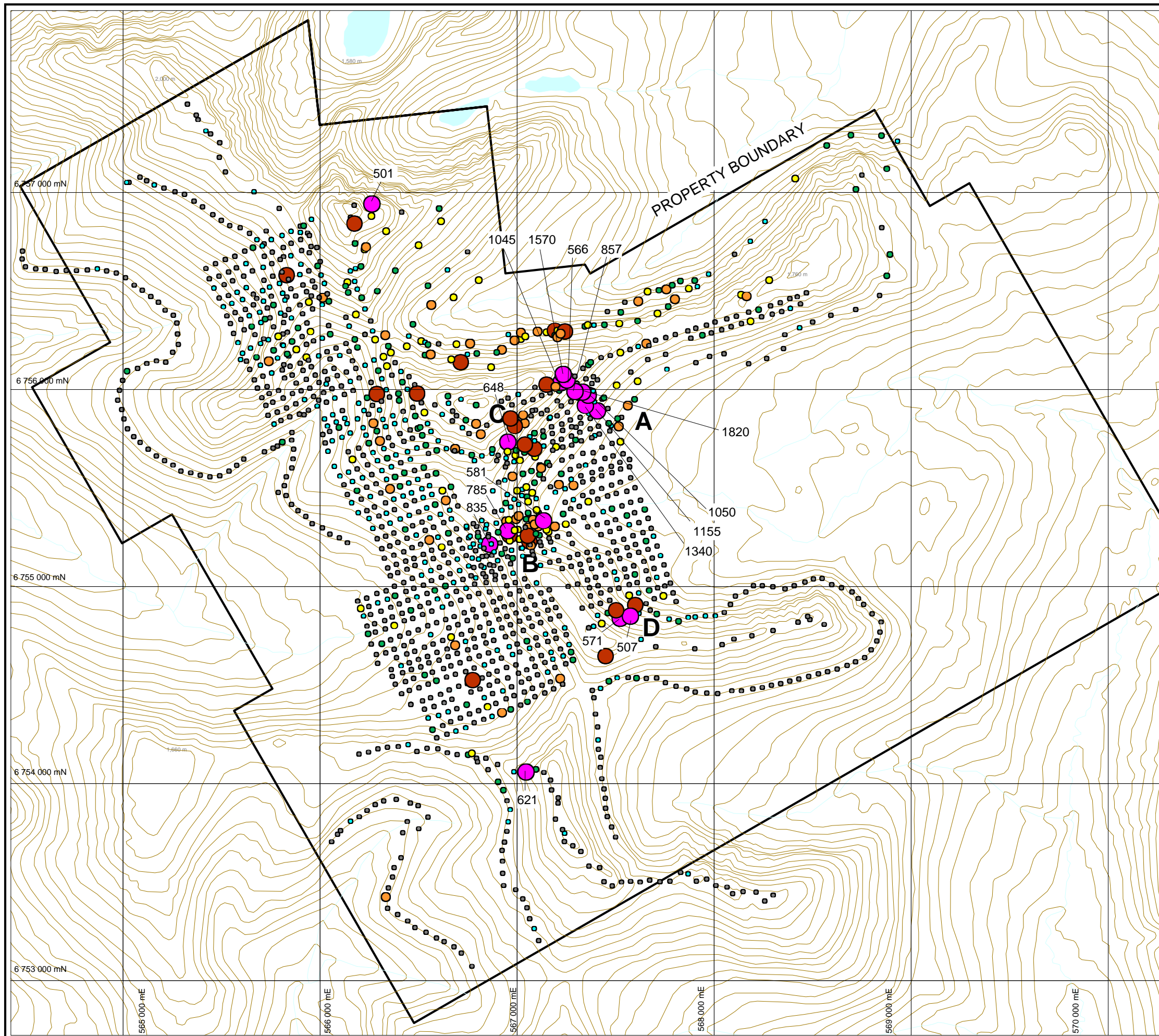


**BONAPARTE CAPITAL CORP.  
ATAC RESOURCES LTD.**

FIGURE 10  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SOIL SAMPLE LOCATIONS**  
ROSY PROPERTY

0 500 1000 2000 m  
UTM ZONE 8, NAD 83, 105C/13  
FILE: ...2009/ROSY/AR/FIGURES.wor DATE: JAN 2010

- 2009 soil sample location
- Pre-2009 soil sample location



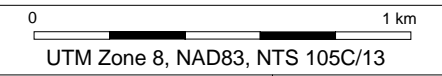
● 555 Au value (ppb)  
B Anomaly

**Au Geochemistry (ppb)**

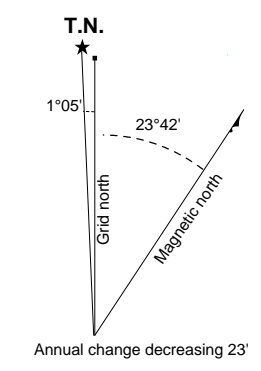
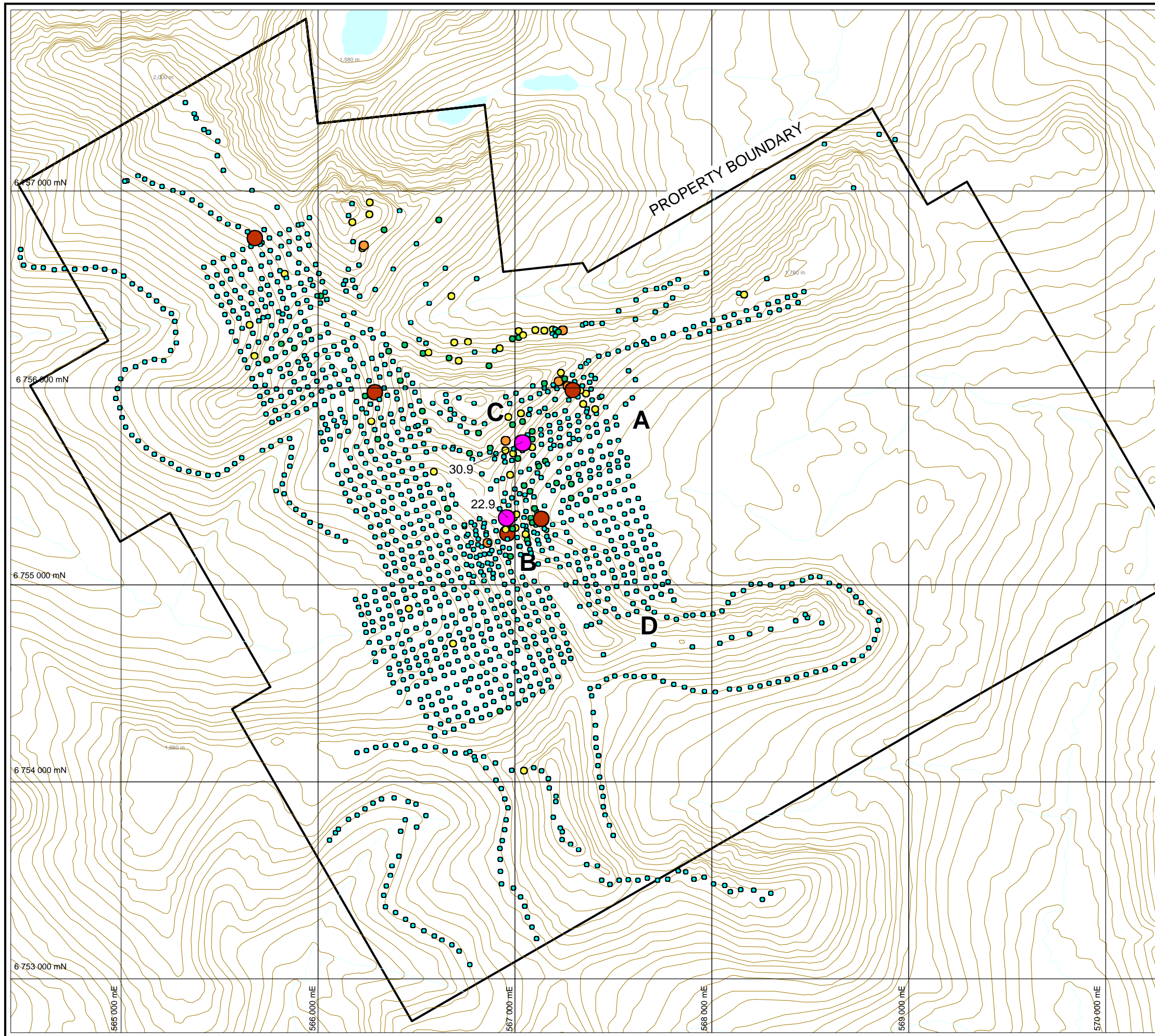
- ≥500
- ≥200 <500
- ≥100 <200
- ≥50 <100
- ≥20 <50
- ≥10 <20
- ≥0 <10

**BONAPARTE CAPITAL CORP.  
ATAC RESOURCES LTD.**

**FIGURE 11**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD SOIL GEOCHEMISTRY  
 COMPILATION**  
 ROSY PROPERTY



FILE: 2009/ROSY/Au GEOCHEM.WOR      DATE: JANUARY 2010



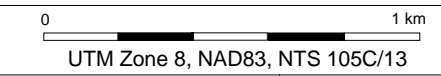
● 30.9 Ag value (ppm)  
● B Anomaly

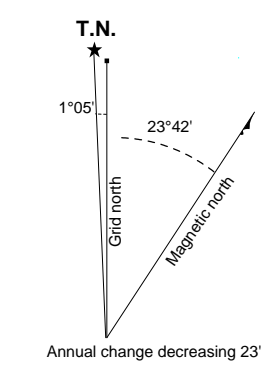
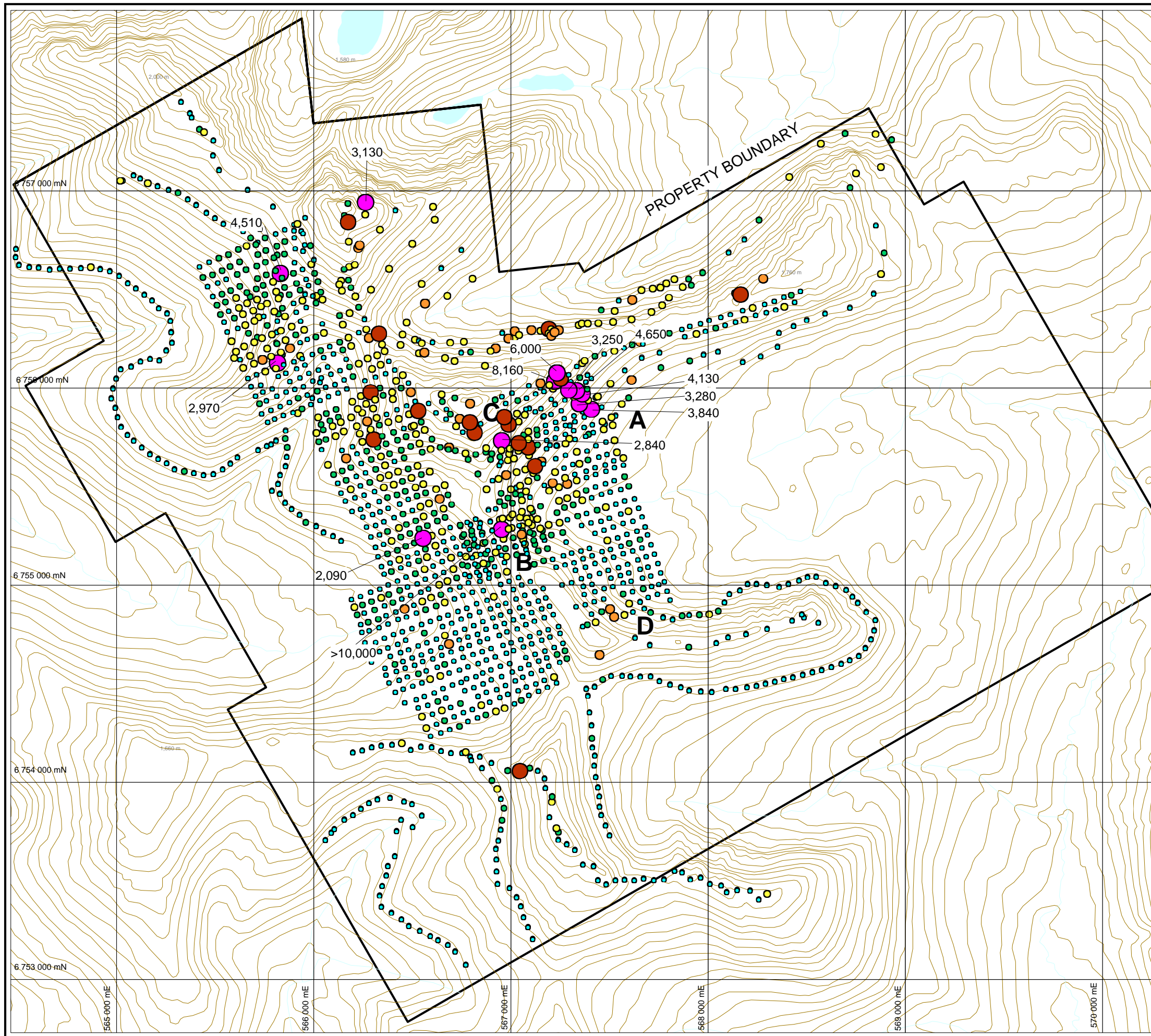
**Ag Geochemistry (ppm)**

- ≥20
- ≥10 <20
- ≥5 <10
- ≥2 <5
- ≥1 <2
- ≥0 <1

**BONAPARTE CAPITAL CORP.  
 ATAC RESOURCES LTD.**

**FIGURE 12**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 SILVER SOIL GEOCHEMISTRY  
 COMPILATION  
 ROSY PROPERTY





● 3,130 As value (ppm)  
**B** Anomaly

**As Geochemistry (ppm)**

- ≥2,000
- ≥1,000 <2,000
- ≥500 <1,000
- ≥100 <500
- ≥50 <100
- ≥0 <50

**BONAPARTE CAPITAL CORP.  
ATAC RESOURCES LTD.**

**FIGURE 13**  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC SOIL GEOCHEMISTRY  
COMPILATION**  
ROSY PROPERTY

0  1 km  
UTM Zone 8, NAD83, NTS 105C/13

FILE: 2009/ROSY/As GEOCHEM.WOR    DATE: JANUARY 2010

covered areas. These veins and their associated soil geochemical anomalies (A and B) should be tested with a few shallow drill holes.

While drilling is underway the other main soil geochemical anomalies (C and D) should receive further exploration including detailed mapping, prospecting and possibly hand trenching. Additionally, closer spaced geochemical sampling, mapping and prospecting should be conducted in lightly explored parts of the property to try and indentify additional vein zones.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Heather Smith B.Sc. Geology, GIT

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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address at #604-175 West 1 Street, North Vancouver, British Columbia, V7M 3N9 do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 150000).
4. I have personally directed the fieldwork reported herein and have interpreted all data resulting from this work.

Heather Smith, B.Sc. Geology, GIT

**APPENDIX II**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**Project: RosyProperty: Rosy

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Sample Number: G285201    Grid East: 568505    E    Grid North: 6754643    N    Type: **Grab**    Dimension:  
UTM: 568505    E    UTM: 6754643    N    Sample Width:    Abundance:  
Elevation: m

Comments: Brown quartz carbonate vein material with brecciated weathered surface. Sample collected within broken/highly fractured vein exposure in linear on ridge

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Sample Number: G285202    Grid East: 568505    E    Grid North: 6754643    N    Type: **Grab**    Dimension:  
UTM: 568505    E    UTM: 6754643    N    Sample Width:    Abundance:  
Elevation: m

Comments: White quartz vein phase of intrusion/separate intrusion along selvage of H285201 vein structure.

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Sample Number: G285203    Grid East: 568407    E    Grid North: 6754626    N    Type: **Grab**    Dimension:  
UTM: 568407    E    UTM: 6754626    N    Sample Width:    Abundance:  
Elevation: m

Comments: White-orange quartz vein boulder hosting a high concentration of limonitic pits.

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Sample Number: G285204    Grid East: 568407    E    Grid North: 6754626    N    Type: **Float**    Dimension:  
UTM: 568407    E    UTM: 6754626    N    Sample Width:    Abundance:  
Elevation: m

Comments: Composite sample of three float boulders in deep linear where dyke intrusion exists.

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Sample Number: G285205    Grid East: 568024    E    Grid North: 6754518    N    Type: **Grab**    Dimension:  
UTM: 568024    E    UTM: 6754518    N    Sample Width:    Abundance:  
Elevation: m

Comments: Orange fine grained qtz-carbonate vein hosting strong pitting. Brecciated texture on weathered surface.

---

---

Sample Number: G285206    Grid East: 567566    E    Grid North: 6753727    N    Type: **Float**    Dimension:  
UTM: 567566    E    UTM: 6753727    N    Sample Width:    Abundance:  
Elevation: m

Comments: Brown qtz-carb vein hosting disseminated py. Float sample around numerous others com from recessive linear on saddle on ridge above soil line.

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**Rock Sample Descriptions**Project: RosyProperty: Rosy

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Sample Number: G285207    Grid East: 564892    E    Grid North: 6756709    N    Type: Float    Dimension:  
UTM: 564892    E    UTM: 6756709    N    Sample Width:    Abundance:  
Elevation: m

Comments: Quartz-carbonate float boulder found on frost boil while hiking up to ridge. Boulder is a brown quartz-carb with large angular pits on weathered surface and limonite filled on fresh surface.

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Sample Number: G285208    Grid East: 565513    E    Grid North: 6756940    N    Type: Float    Dimension:  
UTM: 565513    E    UTM: 6756940    N    Sample Width:    Abundance:  
Elevation: m

Comments: Very strong limonite altered vein material hosting large pits. Samples G285208-G285211 are essentially grab samples from subcrop vein material.

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Sample Number: G285209    Grid East: 565513    E    Grid North: 6756940    N    Type: Float    Dimension:  
UTM: 565513    E    UTM: 6756940    N    Sample Width:    Abundance:  
Elevation: m

Comments: Limonite stained quartz-carb vein material

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Sample Number: H285210    Grid East: 565513    E    Grid North: 6756940    N    Type: Float    Dimension:  
UTM: 565513    E    UTM: 6756940    N    Sample Width:    Abundance:  
Elevation: m

Comments: Milky white quartz vein with local limonitic pits.

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Sample Number: G285211    Grid East: 565513    E    Grid North: 6756940    N    Type: Float    Dimension:  
UTM: 565513    E    UTM: 6756940    N    Sample Width:    Abundance:  
Elevation: m

Comments: White quartz vein with limonite alteration that is pervasive untilat the centre of the sample where scorodite alteration exists with very fine grained py and arsenopy.

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Sample Number: G285212    Grid East: 565609    E    Grid North: 6756996    N    Type: Float    Dimension:  
UTM: 565609    E    UTM: 6756996    N    Sample Width:    Abundance:  
Elevation: m

Comments: Milky white quartz vein with strong limonitic pits.

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**Rock Sample Descriptions**Project: RosyProperty: Rosy

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Sample Number: G285213    Grid East: 565609    E    Grid North: 6756996    N    Type: Float    Dimension:  
UTM: 565609    E    UTM: 6756996    N    Sample Width:    Abundance:  
Elevation: m

Comments: Brown quartz-carb vein float boulder

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Sample Number: G285214    Grid East: 565504    E    Grid North: 6757189    N    Type: Float    Dimension:  
UTM: 565504    E    UTM: 6757189    N    Sample Width:    Abundance:  
Elevation: m

Comments: Quartz vein float boulder discovered in well developed linear. Parellel fractures developed along boulders with limonitic staining. Very minor sulphides observed.

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Sample Number: G285215    Grid East: 565564    E    Grid North: 6757117    N    Type: Float    Dimension:  
UTM: 565564    E    UTM: 6757117    N    Sample Width:    Abundance:  
Elevation: m

Comments: Quartz-Carb vein material in subcrop. Minor pyrite and abundant pits. Host linear @ 057

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Sample Number: G285216    Grid East: 565911    E    Grid North: 6756738    N    Type: Float    Dimension:  
UTM: 565911    E    UTM: 6756738    N    Sample Width:    Abundance:  
Elevation: m

Comments: White chalcedonic qtz vein boulder taken in the base of large saddle. Numerous QV float boulders present.

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Sample Number: G285217    Grid East: 565838    E    Grid North: 6756639    N    Type: Float    Dimension:  
UTM: 565838    E    UTM: 6756639    N    Sample Width:    Abundance:  
Elevation: m

Comments: Quartz-carb vein float boulder in scree slope.

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Sample Number: G285218    Grid East: 564488    E    Grid North: 6756667    N    Type: Grab    Dimension:  
UTM: 564488    E    UTM: 6756667    N    Sample Width:    Abundance:  
Elevation: m

Comments: Brown limonite altered float vein material within distinct vein boulder trail. Large weathered out pits throughout vein material

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**Rock Sample Descriptions**Project: RosyProperty: Rosy

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Sample Number: G285219    Grid East: 566887 E    Grid North: 6753973 N    Type: Grab    Dimension:  
UTM: 566887 E    UTM: 6753973 N    Sample Width:    Abundance:  
Elevation: m

Comments: Milky brown-white qtz carbonate vein emplaced along dyke selvage within highly altered granodiorite. Vein at 050°.

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Sample Number: G285220    Grid East: 567059 E    Grid North: 6753772 N    Type: Float    Dimension:  
UTM: 567059 E    UTM: 6753772 N    Sample Width:    Abundance:  
Elevation: m

Comments: Quartz-carb vein discovered in a high density of vein float boulders.

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Sample Number: G285221    Grid East: 567083 E    Grid North: 6753680 N    Type: Float    Dimension:  
UTM: 567083 E    UTM: 6753680 N    Sample Width:    Abundance:  
Elevation: m

Comments: Quartz-carbonate float containing disseminated sulphides (pyrite and possible arsenopy.).

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Sample Number: G285222    Grid East: 568419 E    Grid North: 6753255 N    Type: specimen    Dimension:  
UTM: 568419 E    UTM: 6753255 N    Sample Width:    Abundance:  
Elevation: m

Comments: Calcite/quartz vein at least 3 cm wide, likely wider, containing 5-8 mm wide clean calcite vein flanked by 1 cm wide extremely limonite calcareous vein material with ~10% void space. Some pieces have 2 of the clean calcite veins parallel separated by a thin limonite horizon.

071A

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---

Sample Number: G285223    Grid East: 568332 E    Grid North: 6753268 N    Type: specimen    Dimension:  
UTM: 568332 E    UTM: 6753268 N    Sample Width:    Abundance:  
Elevation: m

Comments: Very limonitic material with ~10% angular 0.5 - 1.0 cm granodiorite rip-ups and 1 % clots

073A

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---

Sample Number: G285224    Grid East: 568080 E    Grid North: 6753329 N    Type: specimen    Dimension:  
UTM: 568080 E    UTM: 6753329 N    Sample Width:    Abundance:  
Elevation: m

Comments: specimen of at least 1 m wide stockwork zone of ~20% thin limonitic calcite veins with minor pore space. Minor 1-2 mm diameter sulphide, tarnishes dark grey either py or aspy?

078A

---

---

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**Rock Sample Descriptions**Project: Rosy Property: Rosy

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Sample Number: G285225    Grid East: 567872 E    Grid North: 6753326 N    Type: specimen    Dimension:  
UTM: 567872 E    UTM: 6753326 N    Sample Width:    Abundance:  
Elevation: m

Comments: Clay altered G.D. with ~20% cubic 1mm wide limonite clasts  
082A

---

Sample Number: G285226    Grid East: 567794 E    Grid North: 6753330 N    Type: specimen    Dimension:  
UTM: 567794 E    UTM: 6753330 N    Sample Width:    Abundance:  
Elevation: m

Comments: Minor float of limonitic breccia ~35% 3mm-1cm angular hornfels granodiorite clasts within a fine grained light brown limonitic matrix and ~2% coarse grained fractured and partial melted / reabsorbed clear colourless calcite crystals. Rare scorodite stain.  
084A

---

Sample Number: G285227    Grid East: 567360 E    Grid North: 6753567 N    Type: specimen    Dimension:  
UTM: 567360 E    UTM: 6753567 N    Sample Width:    Abundance:  
Elevation: m

Comments: Minor float breccia same as G285226 with 0.5 cm diameter clasts.  
095A

---

Sample Number: G285228    Grid East: 567351 E    Grid North: 6753586 N    Type: specimen    Dimension:  
UTM: 567351 E    UTM: 6753586 N    Sample Width:    Abundance:  
Elevation: m

Comments: Abundant float talus, same as G285226 but clast appear to be chert, likely brecciated chacedonic vein.  
096A

---

Sample Number: G285229    Grid East: 567709 E    Grid North: 6754866 N    Type: specimen    Dimension:  
UTM: 567709 E    UTM: 6754866 N    Sample Width:    Abundance:  
Elevation: m

Comments: med to light brown clay altered dyke with ~20% 1-2 mm diameter limonite cubes.  
441A

---

Sample Number: G285230    Grid East: 567993 E    Grid North: 6754611 N    Type: specimen    Dimension:  
UTM: 567993 E    UTM: 6754611 N    Sample Width:    Abundance:  
Elevation: m

Comments: 1 cm wide quartz / calcite vein with 3 mm wide limonite band on top surface of float, vein forms on surface of boulder weak comb texture. Believed to be half of original vein.  
444A

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---

**Rock Sample Descriptions**Project: RosyProperty: Rosy

---

Sample Number: G285231    Grid East: 568079 E    Grid North: 6754674 N    Type: specimen    Dimension:  
UTM: 568079 E    UTM: 6754674 N    Sample Width:    Abundance:  
Elevation: m

Comments: Medium to light brown limonite stained weakly calcareous chalcedonic vein. All sulphides have weathered out but ~3% void space. Weathered surfaces are heavily pitted and coated with limonite.

---

Sample Number: G285232    Grid East: 568079 E    Grid North: 6754674 N    Type: specimen    Dimension:  
UTM: 568079 E    UTM: 6754674 N    Sample Width:    Abundance:  
Elevation: m

Comments: 4.5 cm wide vein float of strongly limonized with 5% sulphide casts. Vein is light brown fine grained and cut by later coarse grained white calcite vein ~6 mm wide.

---

Sample Number: G285233    Grid East: 568097 E    Grid North: 6754665 N    Type: specimen    Dimension:  
UTM: 568097 E    UTM: 6754665 N    Sample Width:    Abundance:  
Elevation: m

Comments: At least 5 cm wide material, same as G285232 with weak botriodal texture.

---

Sample Number: G285234    Grid East: 568228 E    Grid North: 6754766 N    Type: specimen    Dimension:  
UTM: 568228 E    UTM: 6754766 N    Sample Width:    Abundance:  
Elevation: m

Comments: At least 5 cm wide material, same as G285232 with botriodal texture.

---

Sample Number: G285235    Grid East: 568532 E    Grid North: 6754828 N    Type: specimen    Dimension:  
UTM: 568532 E    UTM: 6754828 N    Sample Width:    Abundance:  
Elevation: m

Comments: At least 5 cm wide material, same as G285232 with ~30% chalcedonic quartz.

---

Sample Number: G285236    Grid East: 568938 E    Grid North: 6754665 N    Type: specimen    Dimension:  
UTM: 568938 E    UTM: 6754665 N    Sample Width:    Abundance:  
Elevation: m

Comments: 3-4 cm thick lenses? of medium brown limonite surrounded by 2-3 cm rims of comb texture quartz; ~10% of interior of lenses contain smaller lenses of comb texture quartz that are filled with void space. Minor glassy rounded quartz eyes 1-2 mm diameter in limonite.

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**Rock Sample Descriptions**Project: RosyProperty: Rosy

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Sample Number:	Grid East:	E	Grid North:	N	Type: specimen	Dimension:
G285237	UTM:	567192 E	UTM:	6753879 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 cm wide quartz vein with trace calcite ~10% dark brown limonite, occurring mostly as veinlets parallel to vein 0.5% diss aspy altering to scorodite.  
613A

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**APPENDIX III**  
**CERTIFICATES OF ANALYSIS**



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

Page: 1  
Finalized Date: 22-SEP-2009  
Account: RCM

## CERTIFICATE VA09101397

Project: ROSY

P.O. No.:

This report is for 37 Rock samples submitted to our lab in Vancouver, BC, Canada on 16-SEP-2009.

The following have access to data associated with this certificate:

AL ARCHER  
BILL WENGZYNOWSKI

DOUG EATON

JOAN MARIACHER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd

2103 Dollarton Hwy  
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Project: ROSY

Page: 2 - A  
Total Pages: 2 (A - C)  
Finalized Date: 22-SEP-2009  
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## CERTIFICATE OF ANALYSIS VA09101397

Sample Description	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	
	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	
G285201	0.50	<0.001	<0.2	0.30	4	<10	50	<0.5	<2	8.23	<0.5	3	5	12	2.99	
G285202	0.68	<0.001	<0.2	0.15	<2	<10	70	<0.5	<2	0.08	<0.5	2	13	5	0.63	
G285203	0.34	<0.001	<0.2	0.05	<2	<10	10	<0.5	<2	0.04	<0.5	1	19	<1	0.87	
G285204	0.46	<0.001	0.2	0.05	<2	<10	10	<0.5	2	1.92	<0.5	1	13	<1	0.42	
G285205	1.04	0.001	<0.2	0.23	4	<10	30	<0.5	<2	18.5	<0.5	1	3	<1	5.19	
G285206	0.52	0.009	<0.2	0.76	121	<10	80	<0.5	<2	6.47	<0.5	8	12	9	3.13	
G285207	0.50	<0.001	<0.2	0.57	10	<10	150	<0.5	2	5.22	<0.5	8	8	2	2.71	
G285208	0.58	0.099	39.1	0.46	2040	<10	270	<0.5	<2	0.18	<0.5	15	11	10	5.36	
G285209	1.26	0.127	16.9	0.23	2420	<10	100	<0.5	<2	0.17	<0.5	7	11	4	2.82	
G285210	0.54	0.002	<0.2	0.09	33	<10	60	<0.5	<2	0.74	<0.5	3	14	1	1.08	
G285211	1.52	0.609	2.5	0.13	2910	<10	240	<0.5	<2	0.06	<0.5	1	14	3	1.43	
G285212	0.50	0.002	<0.2	0.08	41	<10	40	<0.5	<2	0.74	<0.5	1	19	<1	0.68	
G285213	0.50	0.005	<0.2	0.16	77	<10	90	0.5	<2	20.1	<0.5	3	2	<1	5.58	
G285214	1.64	<0.001	<0.2	0.20	<2	<10	10	<0.5	2	0.07	<0.5	1	12	<1	0.40	
G285215	0.88	0.006	<0.2	0.42	102	<10	270	<0.5	<2	1.65	<0.5	10	20	5	2.65	
G285216	1.26	<0.001	<0.2	0.30	<2	<10	90	<0.5	<2	16.8	0.5	4	6	3	1.00	
G285217	0.46	0.001	<0.2	0.45	53	<10	70	<0.5	<2	2.99	2.8	4	9	13	0.85	
G285218	0.20	0.017	0.5	0.44	1335	<10	330	<0.5	<2	2.21	<0.5	7	8	2	5.37	
G285219	1.50	0.042	<0.2	0.19	51	<10	40	<0.5	<2	6.35	<0.5	3	10	<1	2.08	
G285220	1.02	0.002	<0.2	0.44	21	<10	70	<0.5	<2	2.77	<0.5	5	10	<1	1.82	
G285221	0.26	0.536	1.7	0.43	2260	<10	510	<0.5	<2	3.00	<0.5	9	6	2	2.91	
G285222	1.06	<0.001	<0.2	0.22	10	<10	30	<0.5	3	22.8	<0.5	9	3	4	3.97	
G285223	0.82	0.001	<0.2	0.83	13	<10	120	0.7	<2	9.90	<0.5	10	6	14	4.31	
G285224	0.90	0.006	<0.2	0.30	128	<10	70	<0.5	<2	6.12	<0.5	7	4	11	4.27	
G285225	0.54	0.001	<0.2	0.64	303	<10	80	0.5	<2	0.06	<0.5	<1	2	1	0.77	
G285226	0.78	0.005	0.2	1.35	26	<10	130	0.7	<2	14.35	<0.5	8	8	13	5.60	
G285227	0.46	0.024	0.2	0.69	58	<10	140	0.5	<2	7.40	<0.5	6	7	6	3.71	
G285228	0.54	0.029	0.2	0.49	61	<10	30	<0.5	<2	9.71	<0.5	7	5	3	3.80	
G285229	0.58	0.001	<0.2	0.71	8	<10	90	0.6	<2	0.17	<0.5	<1	2	<1	0.61	
G285230	0.28	0.002	0.2	0.40	28	<10	270	<0.5	2	23.4	<0.5	3	3	2	2.75	
G285231	0.70	0.016	0.3	0.49	31	<10	300	<0.5	<2	12.00	<0.5	5	7	6	3.72	
G285232	1.04	0.004	<0.2	0.24	12	<10	100	<0.5	<2	19.9	<0.5	3	4	<1	4.41	
G285233	0.96	0.001	<0.2	0.19	8	<10	40	<0.5	<2	19.6	<0.5	3	2	1	4.75	
G285234	0.84	0.001	<0.2	0.41	10	<10	40	0.6	<2	16.8	<0.5	4	4	2	4.33	
G285235	0.86	0.001	<0.2	0.43	2	<10	70	<0.5	<2	13.70	<0.5	11	5	2	4.39	
G285236	1.40	<0.001	<0.2	0.47	9	<10	160	<0.5	<2	7.07	<0.5	7	5	5	2.18	
G285237	0.48	1.450	7.7	0.66	8100	<10	380	<0.5	<2	0.15	<0.5	3	8	2	3.89	



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Project: ROSY

Page: 2 - B  
Total Pages: 2 (A - C)  
Finalized Date: 22-SEP-2009  
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## CERTIFICATE OF ANALYSIS VA09101397

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units LOR	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
G285201		<10	1	0.16	10	2.05	1165	1	<0.01	4	420	3	0.12	5	1
G285202		<10	<1	0.06	10	0.02	148	1	<0.01	<1	50	<2	<0.01	<2	<1
G285203		<10	<1	0.02	<10	0.01	134	1	<0.01	<1	40	<2	<0.01	<2	<1
G285204		<10	<1	0.01	<10	0.04	134	1	<0.01	<1	20	<2	<0.01	<2	1
G285205		<10	1	0.08	10	6.51	1800	1	0.01	5	120	2	<0.01	2	2
G285206		<10	<1	0.13	10	1.70	807	<1	<0.01	7	650	4	0.46	5	7
G285207		<10	<1	0.05	10	0.19	969	<1	<0.01	10	210	27	0.01	<2	3
G285208		<10	1	0.20	<10	0.07	1775	1	<0.01	14	390	9	<0.01	86	2
G285209		<10	<1	0.11	<10	0.03	447	1	<0.01	4	190	4	<0.01	160	1
G285210		<10	<1	0.04	<10	0.02	311	1	<0.01	2	30	3	<0.01	2	<1
G285211		<10	<1	0.08	10	0.01	118	1	<0.01	<1	90	3	0.13	28	3
G285212		<10	<1	0.03	<10	0.08	180	<1	<0.01	<1	30	2	0.01	<2	<1
G285213		<10	1	0.08	10	6.32	2200	1	0.01	7	70	6	<0.01	5	1
G285214		<10	<1	0.01	10	0.02	30	1	0.18	<1	30	2	0.05	<2	<1
G285215		<10	<1	0.21	10	0.19	600	1	0.02	8	840	6	0.43	4	9
G285216		<10	<1	0.08	10	2.18	737	1	0.01	10	380	6	<0.01	<2	4
G285217		<10	<1	0.12	10	0.28	609	1	<0.01	26	350	8	<0.01	<2	3
G285218		<10	<1	0.22	10	0.09	2160	1	0.01	11	360	9	0.02	25	3
G285219		<10	<1	0.05	<10	2.43	1740	<1	0.01	2	40	<2	0.04	<2	2
G285220		<10	<1	0.08	<10	0.21	710	<1	0.01	4	160	<2	0.03	<2	3
G285221		<10	1	0.15	10	0.58	1030	<1	0.01	7	170	4	0.21	48	3
G285222		<10	<1	0.04	<10	2.14	2320	<1	0.02	4	100	5	<0.01	<2	3
G285223		<10	<1	0.17	10	0.27	1800	<1	0.01	5	590	<2	0.01	3	6
G285224		<10	<1	0.16	<10	1.61	2230	<1	0.01	5	160	3	0.43	4	5
G285225		<10	<1	0.21	40	0.02	102	4	0.07	<1	60	10	<0.01	5	1
G285226		<10	1	0.17	<10	0.97	2240	<1	0.02	9	350	4	0.04	<2	5
G285227		<10	<1	0.22	10	1.07	1450	<1	0.01	7	360	12	0.15	3	4
G285228		<10	<1	0.18	10	2.76	1610	<1	0.02	6	220	4	0.18	2	3
G285229		<10	1	0.20	40	0.06	74	<1	0.06	<1	60	9	0.01	<2	1
G285230		<10	1	0.10	10	0.90	2600	<1	0.02	1	90	5	<0.01	<2	5
G285231		<10	<1	0.14	10	3.06	1260	<1	0.02	2	300	3	0.05	<2	3
G285232		<10	<1	0.09	<10	4.34	2240	<1	0.02	2	60	2	<0.01	<2	1
G285233		<10	<1	0.06	<10	6.30	1550	<1	0.02	1	70	2	<0.01	<2	1
G285234		<10	<1	0.09	<10	5.39	1460	<1	0.02	2	250	2	0.02	<2	3
G285235		<10	<1	0.06	10	4.69	2060	<1	0.02	7	260	5	0.05	<2	4
G285236		<10	<1	0.19	10	0.27	1260	<1	0.01	3	110	<2	0.01	<2	3
G285237		<10	1	0.24	10	0.02	103	<1	0.01	4	390	10	0.64	183	3



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Page: 2 - C

Total Pages: 2 (A - C)

Finalized Date: 22-SEP-2009

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## CERTIFICATE OF ANALYSIS VA09101397

Sample Description	ME-ICP41		ME-ICP41		ME-ICP41		ME-ICP41	
	Th	Ti	Tl	U	V	W	Zn	
	ppm	%	ppm	ppm	ppm	ppm	ppm	
	20	0.01	10	10	1	10	2	
G285201	<20	<0.01	<10	<10	17	<10	29	
G285202	<20	<0.01	<10	<10	3	<10	5	
G285203	<20	<0.01	<10	<10	1	<10	2	
G285204	<20	<0.01	<10	<10	1	<10	<2	
G285205	<20	<0.01	<10	<10	16	<10	34	
G285206	<20	<0.01	<10	<10	53	<10	45	
G285207	<20	<0.01	<10	<10	39	<10	46	
G285208	<20	<0.01	<10	<10	62	<10	79	
G285209	<20	<0.01	<10	<10	22	<10	40	
G285210	<20	<0.01	<10	<10	4	<10	10	
G285211	<20	<0.01	<10	<10	4	<10	18	
G285212	<20	<0.01	<10	<10	3	<10	4	
G285213	<20	<0.01	<10	<10	16	<10	88	
G285214	<20	<0.01	<10	<10	1	<10	<2	
G285215	<20	<0.01	<10	<10	60	<10	57	
G285216	<20	<0.01	<10	<10	14	<10	35	
G285217	<20	<0.01	<10	<10	12	<10	75	
G285218	<20	<0.01	<10	<10	58	<10	89	
G285219	<20	<0.01	<10	<10	10	<10	19	
G285220	<20	<0.01	<10	<10	23	<10	24	
G285221	<20	<0.01	<10	<10	17	<10	44	
G285222	<20	<0.01	<10	10	89	<10	99	
G285223	<20	<0.01	<10	<10	53	<10	91	
G285224	<20	<0.01	<10	<10	39	<10	60	
G285225	20	<0.01	<10	<10	2	<10	25	
G285226	<20	<0.01	<10	<10	49	<10	106	
G285227	<20	<0.01	<10	<10	30	<10	45	
G285228	<20	<0.01	<10	<10	43	<10	48	
G285229	20	<0.01	<10	<10	1	<10	21	
G285230	<20	<0.01	<10	<10	21	<10	24	
G285231	<20	<0.01	<10	<10	25	<10	48	
G285232	<20	<0.01	<10	10	10	<10	45	
G285233	<20	<0.01	<10	10	12	<10	44	
G285234	<20	<0.01	<10	<10	22	<10	39	
G285235	<20	<0.01	<10	<10	67	<10	104	
G285236	<20	<0.01	<10	<10	19	<10	41	
G285237	<20	<0.01	<10	<10	14	<10	27	





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Page: 2 - A

Total # Pages: 9 (A - C)

Plus Appendix Pages

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## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC57440		0.34	0.008	0.2	1.49	16	<10	180	0.6	<2	0.57	<0.5	14	39	62	3.27
CC57441		0.34	0.046	0.4	1.52	58	<10	190	1.2	<2	0.47	<0.5	10	24	22	3.19
CC57442		0.36	0.012	<0.2	1.96	7	<10	200	1.0	<2	0.65	<0.5	12	31	14	3.59
CC57443		0.34	0.025	0.2	1.61	29	<10	280	0.8	<2	0.52	<0.5	14	34	33	4.29
CC57444		0.36	0.013	<0.2	1.41	52	<10	320	0.8	<2	0.61	<0.5	16	29	22	4.74
CC57445		0.42	0.012	<0.2	1.72	41	<10	270	0.7	<2	0.50	<0.5	14	35	24	4.19
CC57446		0.36	0.017	0.3	1.62	69	<10	280	0.8	<2	0.62	<0.5	17	31	40	4.47
CC57447		0.38	0.018	0.2	1.30	138	<10	260	0.8	2	0.70	<0.5	19	28	40	4.61
CC57448		0.30	0.003	0.2	1.28	79	<10	300	0.9	<2	0.73	<0.5	19	31	34	5.49
CC57449		0.26	0.002	<0.2	1.60	13	<10	360	0.7	<2	0.78	<0.5	9	29	35	3.39
CC57450		0.36	0.006	0.2	1.46	36	<10	310	0.9	<2	0.72	<0.5	20	32	44	5.54
CC57451		0.38	0.003	<0.2	1.47	14	<10	350	0.8	<2	0.62	<0.5	10	34	36	3.75
CC57452		0.40	0.002	<0.2	1.42	12	<10	180	0.6	<2	0.50	<0.5	13	32	44	3.52
CC57453		0.36	0.003	0.2	1.51	48	<10	330	0.9	<2	0.62	<0.5	18	31	48	5.41
CC57454		0.30	0.001	<0.2	1.82	15	<10	440	0.9	<2	0.53	<0.5	15	34	52	4.92
CC57455		0.30	0.003	0.2	1.74	8	<10	320	0.8	<2	0.59	<0.5	13	26	54	4.44
CC57456		0.36	0.003	0.4	1.81	9	<10	510	1.0	<2	0.74	<0.5	21	30	54	5.91
CC57457		0.38	0.003	0.2	1.82	19	<10	830	1.1	2	0.86	<0.5	24	24	62	7.15
CC57458		0.32	0.003	0.4	2.26	9	<10	1110	0.9	<2	1.01	<0.5	18	26	57	4.50
CC57459		0.30	0.003	0.3	2.62	6	<10	850	0.9	<2	0.80	<0.5	20	29	131	4.73
CC57460		0.44	0.003	0.2	2.42	3	<10	810	1.0	2	0.72	<0.5	19	17	25	5.18
CC57461		0.36	0.001	0.2	1.62	12	<10	230	0.6	3	0.19	<0.5	14	28	21	3.66
CC57462		0.34	0.002	0.2	1.39	10	<10	450	0.8	<2	0.64	<0.5	19	14	37	4.90
CC57463		0.32	0.001	<0.2	1.44	8	<10	270	0.6	<2	0.21	<0.5	11	20	23	4.05
CC57464		0.30	0.002	0.2	1.34	7	<10	200	0.8	<2	0.32	<0.5	12	20	85	3.71
CC57465		0.38	0.001	0.3	2.46	5	<10	250	0.8	<2	0.45	<0.5	18	78	86	4.72
CC57466		0.30	0.003	0.3	1.50	12	<10	70	<0.5	<2	0.28	<0.5	12	35	28	3.23
CC57467		0.28	0.003	<0.2	1.77	7	<10	80	0.5	<2	0.15	<0.5	9	33	38	3.03
CC57468		0.30	0.004	0.3	1.59	6	<10	70	<0.5	<2	0.13	<0.5	8	26	24	2.77
CC57469		0.30	0.001	0.2	1.42	9	<10	110	<0.5	3	0.20	<0.5	9	35	29	2.87
CC57470		0.20	0.001	<0.2	1.44	7	<10	70	<0.5	<2	0.14	<0.5	7	31	22	2.92
CC57471		0.18	0.003	<0.2	1.16	5	<10	50	<0.5	<2	0.08	<0.5	5	15	16	1.93
CC57472		0.34	0.001	<0.2	1.67	7	<10	130	<0.5	<2	0.21	<0.5	11	42	34	3.07
CC57473		0.24	0.001	<0.2	1.43	6	<10	140	<0.5	<2	0.21	<0.5	11	35	29	2.96
CC57474		0.30	0.001	<0.2	1.60	5	<10	160	<0.5	<2	0.23	<0.5	10	38	32	3.20
CC57475		0.34	0.002	<0.2	1.44	8	<10	130	<0.5	2	0.37	<0.5	12	37	35	2.79
CC57476		0.28	0.004	<0.2	1.39	3	<10	130	<0.5	<2	0.27	<0.5	9	35	26	2.75
CC57477		0.26	<0.001	<0.2	1.52	4	<10	200	<0.5	<2	0.34	<0.5	10	55	23	2.83
CC57478		0.26	0.002	<0.2	1.29	7	<10	90	<0.5	<2	0.17	<0.5	8	30	22	2.47
CC57479		0.28	0.003	<0.2	1.09	4	<10	90	<0.5	<2	0.13	<0.5	6	31	19	1.98



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Page: 2 - B

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units LOR	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC57440		<10	<1	0.09	10	0.94	899	<1	0.02	25	1510	6	0.01	<2	7	26
CC57441		<10	<1	0.12	30	0.65	1130	2	0.01	13	910	19	0.02	<2	6	22
CC57442		<10	1	0.10	20	0.97	1530	<1	0.01	15	1330	10	0.01	<2	8	27
CC57443		<10	<1	0.10	20	0.74	1200	<1	0.01	19	1290	5	0.02	<2	9	22
CC57444		<10	<1	0.11	20	0.59	1700	<1	0.01	17	1600	8	0.01	<2	10	19
CC57445		<10	<1	0.08	20	0.74	1300	<1	0.01	16	1400	6	0.03	<2	8	21
CC57446		<10	<1	0.11	20	0.74	1520	<1	0.01	19	1660	6	0.02	<2	10	21
CC57447		<10	1	0.13	20	0.61	1460	<1	0.01	19	1980	9	0.04	4	11	18
CC57448		<10	<1	0.13	20	0.66	1820	<1	0.01	19	2050	8	0.06	<2	15	25
CC57449		10	<1	0.07	20	0.62	805	<1	0.02	13	1420	8	0.08	<2	5	49
CC57450		<10	<1	0.10	20	0.75	1730	<1	0.01	18	2170	8	0.03	3	13	25
CC57451		<10	<1	0.08	20	0.66	806	<1	0.02	19	1320	7	0.05	<2	6	32
CC57452		<10	<1	0.08	10	0.80	938	<1	0.02	24	1480	6	0.01	<2	6	24
CC57453		10	<1	0.09	20	0.69	1390	<1	0.01	16	1980	5	0.02	2	14	20
CC57454		<10	<1	0.10	20	0.79	1210	<1	0.02	19	1420	7	0.02	<2	12	29
CC57455		10	<1	0.09	20	0.82	1070	<1	0.02	14	1550	8	0.02	<2	10	24
CC57456		<10	1	0.12	20	0.93	2160	<1	0.02	26	2240	10	0.02	2	16	39
CC57457		<10	<1	0.09	30	0.81	2950	<1	0.02	18	1930	7	0.04	<2	18	48
CC57458		<10	<1	0.11	20	1.14	3540	<1	0.03	18	1760	7	0.05	<2	10	106
CC57459		10	<1	0.09	20	1.60	2630	<1	0.02	20	1680	6	0.03	<2	10	65
CC57460		10	<1	0.09	20	1.29	3130	<1	0.02	18	1810	7	0.02	<2	11	38
CC57461		<10	<1	0.06	10	0.68	1360	<1	0.02	19	1410	9	0.05	<2	4	22
CC57462		<10	1	0.07	20	0.65	1970	<1	0.01	13	2060	8	0.01	<2	11	28
CC57463		<10	<1	0.05	10	0.42	995	<1	0.01	11	1160	6	0.05	<2	2	17
CC57464		<10	<1	0.11	20	0.53	1620	<1	0.02	14	1140	8	0.02	<2	6	16
CC57465		10	<1	0.24	40	1.73	1950	<1	0.01	41	970	7	0.02	<2	14	19
CC57466		10	<1	0.07	10	0.71	565	<1	0.02	18	810	5	0.02	<2	3	16
CC57467		10	<1	0.06	10	0.60	516	1	0.01	16	580	4	0.04	<2	2	11
CC57468		<10	<1	0.06	10	0.57	410	1	0.01	14	460	5	0.03	<2	2	10
CC57469		10	1	0.07	10	0.55	555	<1	0.01	15	670	5	0.05	<2	2	14
CC57470		10	<1	0.06	10	0.41	422	1	0.01	11	420	5	0.03	<2	2	12
CC57471		10	<1	0.07	10	0.43	408	<1	0.01	6	450	2	0.04	<2	1	7
CC57472		10	<1	0.06	10	0.73	531	<1	0.02	19	550	5	0.04	<2	2	16
CC57473		10	1	0.05	10	0.50	897	1	0.02	15	810	6	0.07	<2	1	13
CC57474		10	1	0.06	10	0.63	606	1	0.01	17	710	3	0.06	<2	1	16
CC57475		<10	1	0.05	10	0.74	412	<1	0.02	19	700	4	0.03	<2	2	20
CC57476		10	<1	0.06	10	0.60	373	1	0.02	16	720	4	0.05	<2	1	17
CC57477		10	<1	0.06	10	0.56	991	1	0.01	18	1240	4	0.09	<2	1	18
CC57478		<10	1	0.05	<10	0.44	427	1	0.02	12	620	2	0.05	<2	1	12
CC57479		10	<1	0.04	<10	0.29	412	1	0.01	10	700	4	0.06	<2	<1	10



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Page: 2 - C

Total # Pages: 9 (A - C)

Plus Appendix Pages

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Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC57440		<20	0.05	<10	<10	72	<10	63
CC57441		<20	0.01	<10	<10	51	<10	69
CC57442		<20	0.01	<10	<10	69	<10	68
CC57443		<20	0.02	<10	<10	74	<10	80
CC57444		<20	0.01	<10	<10	76	<10	80
CC57445		<20	0.01	<10	<10	79	<10	70
CC57446		<20	0.01	<10	<10	74	<10	82
CC57447		<20	0.01	<10	<10	70	<10	86
CC57448		<20	0.01	<10	<10	90	<10	99
CC57449		<20	0.02	<10	<10	66	<10	77
CC57450		<20	0.01	<10	<10	97	<10	101
CC57451		<20	0.02	<10	<10	71	<10	72
CC57452		<20	0.04	<10	<10	71	<10	68
CC57453		<20	0.01	<10	<10	96	<10	97
CC57454		<20	0.02	<10	<10	89	<10	86
CC57455		<20	0.03	<10	<10	86	<10	80
CC57456		<20	0.02	<10	<10	112	<10	114
CC57457		<20	0.01	<10	<10	114	<10	128
CC57458		<20	0.03	<10	<10	92	<10	94
CC57459		<20	0.03	<10	<10	100	<10	99
CC57460		<20	0.01	<10	<10	115	<10	99
CC57461		<20	0.03	<10	<10	78	<10	67
CC57462		<20	0.01	<10	<10	98	<10	88
CC57463		<20	0.01	<10	<10	81	<10	58
CC57464		<20	0.02	<10	<10	60	<10	80
CC57465		<20	0.06	<10	<10	95	<10	90
CC57466		<20	0.07	<10	<10	74	<10	42
CC57467		<20	0.05	<10	<10	70	<10	43
CC57468		<20	0.07	<10	<10	65	<10	40
CC57469		<20	0.05	<10	<10	70	<10	37
CC57470		<20	0.09	<10	<10	79	<10	34
CC57471		<20	0.05	<10	<10	47	<10	31
CC57472		<20	0.07	<10	<10	73	<10	46
CC57473		<20	0.03	<10	<10	71	<10	50
CC57474		<20	0.05	<10	<10	75	<10	55
CC57475		<20	0.05	<10	<10	68	<10	46
CC57476		<20	0.06	<10	<10	64	<10	52
CC57477		<20	0.03	<10	<10	68	<10	59
CC57478		<20	0.04	<10	<10	62	<10	37
CC57479		<20	0.03	<10	<10	57	<10	29



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Page: 3 - A

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Plus Appendix Pages

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## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC70611		0.48	0.004	<0.2	1.68	24	<10	100	0.7	<2	0.39	<0.5	15	39	19	3.88
CC70612		0.36	0.003	<0.2	1.98	16	<10	120	0.6	<2	0.37	<0.5	15	46	23	3.80
CC70613		0.40	0.037	0.9	1.51	63	<10	180	1.5	<2	1.18	<0.5	23	46	11	5.90
CC70614		0.36	0.621	2.5	1.22	1410	<10	200	1.1	<2	0.68	<0.5	19	30	14	5.77
CC70615		0.36	0.016	<0.2	1.44	89	<10	170	1.3	<2	0.57	<0.5	15	31	15	4.91
CC70616		0.30	0.005	<0.2	1.44	32	<10	90	0.6	2	0.26	<0.5	12	35	20	3.56
CC70617		0.30	0.003	<0.2	1.26	20	<10	100	<0.5	<2	0.24	<0.5	9	30	20	2.73
CC70618		0.32	0.003	<0.2	0.96	14	<10	60	<0.5	<2	0.09	<0.5	5	20	16	2.06
CC70619		0.42	0.044	<0.2	1.09	31	<10	80	0.5	<2	0.44	<0.5	11	28	14	2.72
CC70620		0.28	0.003	<0.2	1.35	13	<10	80	<0.5	<2	0.23	<0.5	8	31	17	2.97
CC70621		0.30	0.002	<0.2	1.28	8	<10	80	<0.5	<2	0.12	<0.5	9	25	6	3.57
CC70622		0.28	0.001	<0.2	1.71	4	<10	120	<0.5	<2	0.14	<0.5	8	31	7	3.29
CC70623		0.36	0.003	<0.2	1.71	11	<10	80	<0.5	<2	0.30	<0.5	10	33	14	2.83
CC70624		0.26	0.004	<0.2	1.31	19	<10	70	<0.5	<2	0.19	<0.5	10	34	14	3.15
CC70625		0.32	0.012	<0.2	1.26	101	<10	110	<0.5	<2	0.26	<0.5	9	30	20	2.95
CC70626		0.36	0.004	<0.2	1.53	14	<10	90	<0.5	3	0.41	<0.5	11	32	27	2.80
CC70627		0.30	0.003	<0.2	1.55	11	<10	70	<0.5	<2	0.28	<0.5	11	36	22	2.96
CC70628		0.34	0.001	<0.2	1.53	10	<10	100	0.5	<2	0.29	<0.5	13	37	22	3.25
CC70629		0.36	0.002	<0.2	1.24	9	<10	70	<0.5	<2	0.29	<0.5	9	30	19	2.53
CC70630		0.30	0.002	<0.2	1.09	6	<10	80	<0.5	<2	0.13	<0.5	6	26	11	2.41
CC69051		0.38	0.003	<0.2	1.46	31	<10	160	<0.5	<2	0.28	<0.5	8	30	13	2.50
CC69052		0.40	0.003	<0.2	1.10	31	<10	90	<0.5	<2	0.43	<0.5	12	30	14	2.56
CC69053		0.28	0.003	<0.2	1.26	27	<10	180	<0.5	<2	0.40	<0.5	9	33	14	2.61
CC69054		0.40	NSS	<0.2	1.21	32	<10	160	<0.5	<2	0.43	<0.5	11	41	16	2.74
CC69055		0.34	0.007	<0.2	1.39	19	<10	70	<0.5	<2	0.27	<0.5	9	32	13	2.67
CC69056		0.36	0.005	<0.2	0.98	28	<10	130	<0.5	2	0.39	<0.5	11	28	15	2.50
CC69057		0.30	0.008	<0.2	1.33	36	<10	230	<0.5	2	0.41	<0.5	11	35	22	2.80
CC69058		0.36	0.006	<0.2	1.37	25	<10	120	<0.5	<2	0.38	<0.5	11	33	14	2.85
CC69059		0.22	0.008	<0.2	1.91	44	<10	570	0.6	<2	0.60	<0.5	13	39	26	3.15
CC69060		0.32	0.001	<0.2	1.41	16	<10	240	<0.5	<2	0.38	<0.5	8	31	11	2.52
CC69061		0.48	0.012	<0.2	0.93	131	<10	240	0.6	<2	0.38	<0.5	11	24	9	2.80
CC69062		0.24	0.001	<0.2	0.80	5	<10	150	<0.5	<2	0.27	<0.5	4	18	7	1.77
CC69063		0.32	0.001	<0.2	1.50	10	<10	170	<0.5	<2	0.36	<0.5	10	36	11	3.24
CC69064		0.32	0.001	<0.2	1.24	9	<10	230	0.5	<2	0.38	<0.5	11	29	9	2.90
CC69065		0.26	0.001	<0.2	1.25	5	<10	520	0.5	<2	0.51	<0.5	10	25	7	2.94
CC69066		0.26	0.001	<0.2	1.14	2	<10	200	<0.5	<2	0.17	<0.5	6	24	8	2.21
CC69067		0.26	0.001	<0.2	1.52	11	<10	140	<0.5	<2	0.27	<0.5	9	31	8	2.83
CC69068		0.36	<0.001	<0.2	1.54	3	<10	230	0.6	<2	0.35	<0.5	13	30	9	3.35
CC69069		0.36	0.003	<0.2	1.54	7	<10	330	0.5	<2	0.29	<0.5	10	33	12	2.83
CC69070		0.36	0.001	<0.2	1.30	8	<10	350	0.5	<2	0.28	<0.5	7	26	9	2.26



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC70611		10	1	0.09	10	0.77	1095	1	0.01	19	1600	4	0.01	<2	9	15
CC70612		10	1	0.08	10	0.97	1115	1	0.02	22	1280	4	0.03	<2	6	16
CC70613		10	<1	0.18	40	0.91	2320	<1	0.01	25	4440	3	0.01	<2	36	30
CC70614		10	<1	0.12	20	0.43	1740	1	0.01	21	1820	8	0.05	26	14	22
CC70615		10	<1	0.10	20	0.45	1775	1	0.01	15	2130	10	0.06	<2	16	17
CC70616		10	<1	0.05	10	0.57	609	1	0.01	21	960	7	0.03	<2	5	12
CC70617		10	<1	0.05	10	0.51	446	1	0.02	13	990	4	0.05	<2	2	15
CC70618		<10	<1	0.03	10	0.21	276	1	0.01	8	560	5	0.03	<2	<1	7
CC70619		<10	1	0.05	10	0.55	719	1	0.01	15	1590	3	<0.01	<2	5	14
CC70620		10	<1	0.04	10	0.57	342	1	0.01	13	650	6	0.03	<2	2	13
CC70621		10	1	0.03	10	0.13	597	1	0.01	10	1540	6	0.09	<2	1	8
CC70622		10	1	0.04	10	0.41	944	1	0.01	9	1770	9	0.11	<2	1	9
CC70623		<10	1	0.04	10	0.73	506	1	0.02	16	1010	7	0.03	<2	3	14
CC70624		10	<1	0.06	10	0.55	780	1	0.01	14	680	6	0.04	<2	1	11
CC70625		10	1	0.05	10	0.47	389	1	0.01	16	770	6	0.03	<2	3	11
CC70626		<10	1	0.06	10	0.73	566	1	0.02	17	1040	4	0.01	<2	4	17
CC70627		<10	<1	0.05	10	0.63	518	1	0.01	18	910	6	0.03	<2	2	13
CC70628		<10	1	0.05	10	0.55	684	1	0.01	22	1070	5	0.03	<2	3	12
CC70629		10	1	0.04	10	0.57	309	1	0.01	13	730	3	0.02	<2	2	14
CC70630		10	<1	0.04	10	0.33	246	1	0.01	10	470	6	0.04	<2	1	9
CC69051		<10	1	0.05	10	0.52	440	1	0.01	15	880	5	0.03	<2	1	18
CC69052		<10	<1	0.06	10	0.54	739	1	0.01	18	1190	6	0.01	<2	3	20
CC69053		10	<1	0.05	10	0.51	400	<1	0.02	16	1060	5	0.03	<2	2	19
CC69054		10	1	0.08	10	0.57	550	1	0.01	24	1120	6	0.01	<2	4	19
CC69055		10	1	0.05	10	0.54	429	1	0.02	15	930	2	0.03	<2	1	17
CC69056		10	1	0.05	10	0.51	690	1	0.02	15	1050	4	0.02	<2	4	19
CC69057		<10	<1	0.08	10	0.59	535	1	0.02	19	1080	5	0.04	<2	4	21
CC69058		10	1	0.06	10	0.56	612	1	0.02	17	1160	3	0.02	<2	2	22
CC69059		<10	1	0.10	20	0.66	1225	1	0.02	23	1420	5	0.08	<2	4	32
CC69060		10	<1	0.05	10	0.58	383	1	0.02	15	810	5	0.03	<2	2	25
CC69061		<10	<1	0.08	10	0.27	609	1	0.01	14	880	5	0.03	3	2	19
CC69062		<10	1	0.04	10	0.22	307	1	0.01	7	950	4	0.07	<2	<1	15
CC69063		10	1	0.06	10	0.73	501	1	0.01	16	600	6	0.03	<2	4	41
CC69064		10	1	0.06	10	0.48	670	1	0.01	13	660	3	0.02	<2	3	21
CC69065		10	<1	0.08	10	0.42	626	1	0.01	13	1000	5	0.04	<2	5	31
CC69066		10	1	0.04	10	0.37	460	1	0.01	10	790	5	0.07	<2	1	24
CC69067		10	<1	0.04	10	0.74	362	1	0.01	14	710	4	0.03	<2	3	31
CC69068		<10	<1	0.06	10	0.61	706	1	0.01	16	950	5	0.02	<2	5	24
CC69069		10	<1	0.04	10	0.63	512	<1	0.01	16	790	5	0.03	<2	3	23
CC69070		<10	<1	0.05	10	0.44	277	1	0.02	14	770	5	0.03	<2	3	20



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Project: ROSY

Page: 3 - C

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC70611		<20	0.04	<10	<10	85	<10	73
CC70612		<20	0.04	<10	<10	91	<10	67
CC70613		<20	0.02	<10	<10	114	<10	112
CC70614		<20	0.01	<10	<10	86	<10	111
CC70615		<20	<0.01	<10	<10	88	<10	81
CC70616		<20	0.03	<10	<10	68	<10	56
CC70617		<20	0.03	<10	<10	71	<10	38
CC70618		<20	0.03	<10	<10	54	<10	27
CC70619		<20	0.03	<10	<10	58	<10	41
CC70620		<20	0.06	<10	<10	76	<10	39
CC70621		<20	0.01	<10	<10	76	<10	48
CC70622		<20	0.01	<10	<10	93	<10	45
CC70623		<20	0.03	<10	<10	66	<10	41
CC70624		<20	0.05	<10	<10	73	<10	41
CC70625		<20	0.04	<10	<10	65	<10	41
CC70626		<20	0.04	<10	<10	65	<10	42
CC70627		<20	0.04	<10	<10	66	<10	41
CC70628		<20	0.03	<10	<10	64	<10	53
CC70629		<20	0.05	<10	<10	63	<10	32
CC70630		<20	0.06	<10	<10	65	<10	26
CC69051		<20	0.03	<10	<10	58	<10	43
CC69052		<20	0.05	<10	<10	60	<10	43
CC69053		<20	0.03	<10	<10	66	<10	42
CC69054		<20	0.05	<10	<10	65	<10	56
CC69055		<20	0.04	<10	<10	67	<10	39
CC69056		<20	0.04	<10	<10	64	<10	41
CC69057		<20	0.04	<10	<10	66	<10	49
CC69058		<20	0.04	<10	<10	72	<10	50
CC69059		<20	0.02	<10	<10	70	<10	69
CC69060		<20	0.03	<10	<10	61	<10	39
CC69061		<20	0.01	<10	<10	47	<10	56
CC69062		<20	0.02	<10	<10	44	<10	26
CC69063		<20	0.07	<10	<10	75	<10	52
CC69064		<20	0.03	<10	<10	64	<10	38
CC69065		<20	0.01	<10	<10	56	<10	46
CC69066		<20	0.02	<10	<10	57	<10	28
CC69067		<20	0.02	<10	<10	63	<10	40
CC69068		<20	0.01	<10	<10	64	<10	49
CC69069		<20	0.03	<10	<10	65	<10	39
CC69070		<20	0.02	<10	<10	48	<10	44



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Page: 4 - A

Total # Pages: 9 (A - C)

Plus Appendix Pages

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## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC69071		0.34	0.002	<0.2	0.75	159	<10	520	1.2	<2	1.01	<0.5	31	15	83	6.41
CC69072		0.36	0.003	<0.2	1.74	11	<10	110	<0.5	<2	0.31	<0.5	13	37	36	3.20
CC69073		0.36	NSS	<0.2	0.83	43	<10	200	0.9	<2	0.81	<0.5	24	13	37	4.98
CC69074		0.36	0.004	<0.2	1.67	8	<10	100	<0.5	<2	0.36	<0.5	13	33	39	3.13
CC69075		0.30	0.006	<0.2	1.22	14	<10	270	0.5	<2	0.52	<0.5	19	32	46	4.12
CC69076		0.38	0.008	<0.2	1.92	5	<10	90	0.5	<2	0.22	<0.5	12	35	32	3.18
CC69077		0.38	0.005	<0.2	1.76	7	<10	80	<0.5	<2	0.30	<0.5	12	35	32	2.98
CC69078		0.38	NSS	<0.2	1.05	12	<10	150	0.5	<2	2.01	<0.5	13	25	30	3.78
CC69079		0.32	<0.001	<0.2	1.67	5	<10	90	<0.5	<2	0.29	<0.5	11	37	33	3.16
CC69080		0.36	0.012	<0.2	0.88	12	<10	290	1.0	<2	0.53	<0.5	21	21	59	5.47
CC69081		0.38	0.002	<0.2	1.96	5	<10	160	0.5	<2	0.30	<0.5	10	34	30	3.56
CC69082		0.44	0.004	<0.2	1.82	11	<10	100	0.5	2	0.34	<0.5	14	36	36	3.23
CC69083		0.34	0.006	<0.2	1.50	4	<10	90	<0.5	<2	0.15	<0.5	7	30	18	2.23
CC69084		0.50	0.004	<0.2	1.45	20	<10	180	0.6	<2	0.47	<0.5	12	29	32	3.00
CC69085		0.32	0.001	<0.2	1.83	12	<10	110	0.5	<2	0.28	<0.5	12	34	30	3.49
CC69086		0.32	0.001	<0.2	1.62	13	<10	100	0.5	<2	0.29	<0.5	12	31	29	3.14
CC69087		0.30	0.001	<0.2	1.94	16	<10	170	0.7	<2	0.38	<0.5	16	37	45	3.86
CC69088		0.40	<0.001	<0.2	2.01	19	<10	140	0.6	<2	0.36	<0.5	15	36	45	3.60
CC69089		0.36	0.001	<0.2	1.82	16	<10	100	0.6	<2	0.32	<0.5	12	34	36	3.26
CC69090		0.26	<0.001	<0.2	1.55	8	<10	70	<0.5	<2	0.15	<0.5	8	29	19	2.84
CC69091		0.38	0.006	<0.2	1.06	39	<10	140	1.2	<2	0.60	<0.5	26	38	41	7.46
CC69092		0.18	0.002	<0.2	1.92	16	<10	120	0.6	<2	0.26	<0.5	13	43	42	3.21
CC69093		0.30	<0.001	<0.2	1.98	11	<10	140	0.5	<2	0.41	<0.5	18	54	77	3.46
CC69094		0.34	0.004	<0.2	1.77	12	<10	130	0.5	<2	0.37	<0.5	15	47	52	3.26
CC69095		0.28	0.010	<0.2	1.36	52	<10	260	0.5	<2	0.57	<0.5	15	37	30	3.92
CC69096		0.36	0.008	0.3	1.17	168	<10	150	0.6	<2	0.58	<0.5	20	25	34	5.15
CC69097		0.42	<0.001	<0.2	1.14	9	<10	120	0.7	<2	0.37	<0.5	11	27	23	3.82
CC69098		0.34	0.004	0.3	1.16	227	<10	160	0.9	<2	0.51	<0.5	17	25	17	5.14
CC69099		0.40	0.003	0.5	1.42	83	<10	190	2.3	2	1.04	<0.5	32	51	38	9.24
CC69100		0.30	<0.001	0.3	1.80	<2	<10	40	<0.5	<2	0.14	<0.5	5	28	8	3.02
CC73151		0.22	0.001	0.2	1.24	5	<10	120	<0.5	<2	0.12	<0.5	6	31	22	2.56
CC73152		0.26	0.003	0.2	0.92	29	<10	80	<0.5	<2	0.06	<0.5	7	17	27	4.63
CC73153		0.28	0.002	<0.2	1.70	6	<10	90	<0.5	<2	0.24	<0.5	9	36	28	2.69
CC73154		0.28	0.004	0.6	2.39	34	<10	610	0.8	<2	0.77	<0.5	9	43	81	3.04
CC73155		0.32	0.002	0.2	1.07	13	<10	150	<0.5	<2	0.28	<0.5	6	28	17	2.24
CC73156		0.32	0.003	0.2	1.14	22	<10	130	<0.5	<2	0.44	<0.5	9	30	22	2.33
CC73157		0.30	0.002	0.2	1.35	12	<10	160	<0.5	<2	0.30	<0.5	8	31	22	2.48
CC73158		0.30	0.001	0.3	1.19	50	<10	220	<0.5	<2	0.48	<0.5	9	24	24	3.21
CC73159		0.36	0.001	0.2	0.93	18	<10	70	<0.5	<2	0.23	<0.5	7	28	16	2.30
CC73160		0.34	0.001	0.2	1.20	26	<10	130	<0.5	<2	0.27	<0.5	5	28	14	2.59



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Page: 4 - B

Total # Pages: 9 (A - C)

Plus Appendix Pages

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## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC69071		<10	1	0.12	20	0.13	4050	1	0.01	14	3880	6	<0.01	20	20	21
CC69072		<10	1	0.06	10	0.75	756	1	0.02	20	990	3	0.04	<2	2	14
CC69073		<10	1	0.08	20	0.17	1650	<1	0.01	13	2450	6	<0.01	19	14	8
CC69074		<10	1	0.05	10	0.70	652	1	0.02	19	1270	2	0.03	<2	4	17
CC69075		<10	<1	0.11	10	0.61	1275	1	0.02	22	1440	3	0.01	<2	7	15
CC69076		10	1	0.06	10	0.61	577	1	0.01	17	780	4	0.05	<2	1	12
CC69077		10	1	0.05	10	0.67	516	1	0.01	20	1110	3	0.03	<2	2	12
CC69078		<10	<1	0.12	10	0.43	1125	1	0.01	20	1080	5	0.01	<2	6	11
CC69079		10	1	0.06	10	0.70	548	1	0.01	19	740	3	0.04	<2	2	13
CC69080		<10	1	0.10	10	0.27	1840	<1	0.01	20	1490	8	0.01	<2	11	12
CC69081		10	<1	0.06	10	0.57	666	1	0.01	16	1530	5	0.05	<2	3	12
CC69082		10	1	0.06	10	0.80	666	1	0.01	20	1050	3	0.02	<2	4	14
CC69083		10	<1	0.04	10	0.38	333	1	0.01	13	730	5	0.05	<2	1	8
CC69084		10	<1	0.05	10	0.70	811	1	0.01	16	1410	5	0.02	<2	4	18
CC69085		10	1	0.06	10	0.75	847	1	0.01	16	1140	7	0.03	<2	3	12
CC69086		<10	1	0.06	10	0.65	777	1	0.01	15	1150	6	0.03	<2	2	12
CC69087		10	1	0.08	10	0.87	1005	1	0.02	21	1150	7	0.01	<2	6	14
CC69088		10	1	0.06	10	0.87	861	1	0.01	19	1150	7	0.02	<2	5	15
CC69089		<10	1	0.07	10	0.75	728	1	0.01	19	1150	6	0.03	<2	2	13
CC69090		10	<1	0.04	10	0.42	404	1	0.01	13	830	5	0.05	<2	1	8
CC69091		<10	<1	0.07	20	0.33	2310	1	0.01	27	1710	11	0.04	7	20	13
CC69092		10	1	0.05	10	0.76	679	1	0.01	21	1000	5	0.04	<2	2	14
CC69093		10	1	0.07	10	1.10	816	1	0.02	30	1220	5	0.02	<2	5	17
CC69094		10	1	0.06	10	0.99	719	1	0.02	25	1040	4	0.02	<2	4	16
CC69095		<10	1	0.05	10	0.57	1400	1	0.01	19	1180	7	0.06	<2	3	22
CC69096		<10	1	0.09	20	0.40	1860	<1	0.01	22	1460	14	0.04	10	14	20
CC69097		<10	<1	0.06	10	0.32	924	<1	0.01	13	1560	4	0.06	2	4	14
CC69098		10	1	0.11	20	0.36	1345	<1	0.01	18	1900	7	0.06	19	13	21
CC69099		10	1	0.14	30	0.58	2210	<1	0.01	29	3880	7	0.02	16	29	40
CC69100		10	<1	0.03	<10	0.53	404	<1	0.01	6	1970	4	0.16	2	<1	8
CC73151		<10	1	0.05	10	0.30	819	<1	0.01	11	760	4	0.08	2	1	11
CC73152		10	<1	0.08	<10	0.11	856	<1	<0.01	7	1390	6	0.09	5	<1	7
CC73153		<10	1	0.05	10	0.57	415	<1	0.01	17	850	4	0.04	2	1	14
CC73154		<10	1	0.10	30	0.71	558	<1	0.02	23	1420	5	0.09	4	9	46
CC73155		10	1	0.04	10	0.48	368	<1	0.01	12	800	3	0.04	<2	2	21
CC73156		10	<1	0.05	10	0.67	446	<1	0.02	14	910	2	0.03	2	2	26
CC73157		<10	<1	0.05	10	0.58	538	<1	0.01	14	770	3	0.06	3	1	18
CC73158		<10	1	0.08	10	0.31	791	<1	0.01	10	760	4	0.05	5	3	20
CC73159		<10	1	0.04	10	0.48	304	<1	0.01	11	460	3	0.03	3	2	16
CC73160		<10	1	0.04	10	0.39	269	<1	0.01	11	350	4	0.03	4	2	16



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Page: 4 - C

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## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC69071		<20	<0.01	10	<10	110	<10	120
CC69072		<20	0.04	<10	<10	76	<10	49
CC69073		<20	0.01	<10	<10	98	<10	81
CC69074		<20	0.04	<10	<10	72	<10	55
CC69075		<20	0.03	<10	<10	72	<10	77
CC69076		<20	0.04	<10	<10	71	<10	48
CC69077		<20	0.03	<10	<10	65	<10	47
CC69078		<20	0.02	<10	<10	56	<10	68
CC69079		<20	0.04	<10	<10	71	<10	48
CC69080		<20	0.01	<10	<10	72	<10	102
CC69081		<20	0.01	<10	<10	75	<10	57
CC69082		<20	0.03	<10	<10	71	<10	51
CC69083		<20	0.03	<10	<10	56	<10	36
CC69084		<20	0.03	<10	<10	67	<10	52
CC69085		<20	0.03	<10	<10	74	<10	57
CC69086		<20	0.02	<10	<10	67	<10	49
CC69087		<20	0.03	<10	<10	79	<10	64
CC69088		<20	0.02	<10	<10	76	<10	56
CC69089		<20	0.03	<10	<10	71	<10	57
CC69090		<20	0.02	<10	<10	63	<10	40
CC69091		<20	0.01	<10	<10	130	<10	126
CC69092		<20	0.03	<10	<10	72	<10	49
CC69093		<20	0.04	<10	<10	77	<10	55
CC69094		<20	0.03	<10	<10	72	<10	48
CC69095		<20	0.02	<10	<10	75	<10	51
CC69096		<20	<0.01	<10	<10	85	<10	74
CC69097		<20	0.02	<10	<10	80	<10	70
CC69098		<20	0.01	<10	<10	72	<10	99
CC69099		<20	0.01	<10	<10	137	<10	126
CC69100		<20	0.01	<10	<10	98	<10	38
CC73151		<20	0.04	<10	<10	66	<10	39
CC73152		<20	0.01	<10	<10	89	<10	83
CC73153		<20	0.04	<10	<10	60	<10	48
CC73154		<20	0.02	<10	<10	60	<10	72
CC73155		<20	0.03	<10	<10	53	<10	32
CC73156		<20	0.03	<10	<10	55	<10	42
CC73157		<20	0.03	<10	<10	56	<10	37
CC73158		<20	0.01	<10	<10	64	<10	44
CC73159		<20	0.05	<10	<10	64	<10	32
CC73160		<20	0.06	<10	<10	62	<10	31



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Page: 5 - A

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC73161		0.46	0.005	0.2	1.79	12	<10	150	0.6	<2	0.34	<0.5	8	32	29	2.43
CC73162		0.28	<0.001	0.2	1.28	9	<10	60	<0.5	<2	0.14	<0.5	5	24	27	2.12
CC73163		0.32	0.007	<0.2	1.48	21	<10	80	<0.5	<2	0.19	<0.5	8	33	19	2.79
CC73164		0.38	0.002	0.3	1.32	22	<10	70	<0.5	<2	0.21	<0.5	8	30	20	2.50
CC73165		0.46	0.005	<0.2	1.26	22	<10	100	0.5	<2	0.29	<0.5	9	30	27	2.56
CC73166		0.38	0.004	0.3	1.20	34	<10	190	<0.5	<2	0.36	<0.5	10	30	33	2.79
CC73167		0.36	0.006	0.2	1.26	50	<10	240	<0.5	<2	0.39	<0.5	10	33	29	2.93
CC73168		0.32	0.006	0.2	1.34	60	<10	130	<0.5	<2	0.39	<0.5	10	33	27	2.81
CC73169		0.36	0.023	<0.2	1.34	17	<10	110	<0.5	<2	0.37	<0.5	9	33	23	2.65
CC73170		0.36	0.004	<0.2	0.99	13	<10	100	<0.5	<2	0.40	<0.5	8	29	21	2.30
CC73171		0.30	0.002	<0.2	1.09	14	<10	80	<0.5	<2	0.35	<0.5	8	30	20	2.57
CC73172		0.32	0.002	<0.2	1.18	34	<10	170	<0.5	<2	0.34	<0.5	7	29	17	2.97
CC73173		0.40	0.008	<0.2	1.21	43	<10	130	<0.5	<2	0.33	<0.5	10	29	25	2.64
CC73174		0.36	0.001	0.3	1.64	13	<10	280	0.7	<2	0.62	<0.5	11	43	31	4.64
CC73175		0.30	0.004	0.3	0.86	21	<10	120	<0.5	<2	0.23	<0.5	6	23	21	2.32
CC73176		0.34	0.007	0.2	1.30	18	<10	120	<0.5	<2	0.26	<0.5	9	31	27	2.56
CC73177		0.36	0.003	0.2	1.13	16	<10	100	<0.5	<2	0.32	<0.5	9	30	25	2.43
CC73178		0.34	0.001	0.2	1.18	9	<10	120	<0.5	<2	0.27	<0.5	7	29	20	2.64
CC73179		0.30	0.004	0.2	1.80	54	<10	250	0.5	<2	0.44	<0.5	10	39	32	2.84
CC73180		0.34	0.002	0.2	1.13	17	<10	200	<0.5	<2	0.67	<0.5	8	29	30	2.16
CC73181		0.38	0.003	0.2	1.21	13	<10	220	<0.5	<2	0.54	<0.5	7	30	27	2.17
CC73182		0.44	0.001	<0.2	1.11	17	<10	190	<0.5	<2	0.41	<0.5	8	28	22	2.07
CC73183		0.30	0.002	0.3	1.36	17	<10	140	<0.5	<2	0.30	<0.5	8	29	25	2.36
CC73184		0.26	0.002	0.2	1.35	17	<10	200	<0.5	<2	0.42	<0.5	9	29	27	2.32
CC73185		0.34	0.003	0.2	1.45	17	<10	170	<0.5	<2	0.35	<0.5	9	31	18	2.42
CC73186		0.44	0.006	<0.2	1.67	23	<10	310	<0.5	<2	0.52	<0.5	11	35	22	2.86
CC73187		0.40	0.009	0.3	1.49	25	<10	240	<0.5	<2	0.54	<0.5	10	33	21	2.66
CC73188		0.50	0.002	<0.2	1.09	14	<10	140	<0.5	<2	0.51	<0.5	10	34	16	2.58
CC73189		0.36	0.004	0.2	2.24	43	<10	290	0.5	<2	0.44	<0.5	12	41	35	3.34
CC73190		0.30	0.004	0.2	1.99	28	<10	250	0.5	<2	0.33	<0.5	11	42	40	3.04
CC73191		0.40	0.004	<0.2	1.06	18	<10	110	<0.5	<2	0.47	<0.5	10	28	26	2.12
CC73192		0.36	0.004	<0.2	1.04	14	<10	70	<0.5	2	0.17	<0.5	6	24	17	2.03
CC73193		0.30	0.037	0.3	1.55	15	<10	150	<0.5	<2	0.14	<0.5	8	31	25	2.33
CC73194		0.38	0.001	0.2	1.80	16	<10	110	0.5	<2	0.31	<0.5	10	35	33	2.64
CC73195		0.40	0.002	<0.2	1.74	18	<10	110	0.5	<2	0.40	<0.5	10	33	24	2.69
CC73196		0.28	0.003	0.2	1.34	28	<10	170	0.5	2	0.42	<0.5	11	36	20	2.85
CC73197		0.32	0.002	0.3	1.69	24	<10	260	0.5	2	0.45	<0.5	9	33	32	2.75
CC73198		0.36	0.003	0.2	1.36	19	<10	140	<0.5	2	0.32	<0.5	10	34	29	2.64
CC73199		0.28	0.003	0.5	1.79	29	<10	280	0.5	<2	0.40	<0.5	9	31	24	2.52
CC73200		0.36	0.004	0.2	1.46	21	<10	120	<0.5	<2	0.35	<0.5	10	30	30	2.47



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Page: 5 - B

Total # Pages: 9 (A - C)

Plus Appendix Pages

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## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC73161		<10	1	0.04	20	0.51	765	<1	0.01	14	1060	4	0.08	2	1	23
CC73162		10	<1	0.04	10	0.33	313	<1	0.01	10	680	5	0.06	2	1	10
CC73163		10	1	0.05	10	0.62	345	<1	0.01	16	730	3	0.05	3	1	16
CC73164		<10	<1	0.04	10	0.51	518	<1	0.01	14	940	3	0.05	2	1	15
CC73165		<10	1	0.05	10	0.63	578	<1	0.01	17	980	6	0.03	<2	3	17
CC73166		10	<1	0.05	10	0.66	557	<1	0.01	17	820	4	0.04	3	3	20
CC73167		<10	1	0.06	10	0.64	600	<1	0.01	15	910	4	0.05	3	3	23
CC73168		<10	1	0.05	10	0.72	610	<1	0.02	15	980	3	0.05	2	2	24
CC73169		<10	1	0.05	10	0.69	425	<1	0.01	16	1110	3	0.04	2	3	23
CC73170		<10	1	0.04	10	0.53	374	<1	0.01	18	1070	3	0.02	2	2	18
CC73171		<10	1	0.05	10	0.56	370	<1	0.01	15	1080	3	0.03	4	2	19
CC73172		<10	<1	0.04	10	0.41	599	<1	0.01	11	880	4	0.05	6	2	22
CC73173		<10	<1	0.06	10	0.60	650	<1	0.01	17	1070	3	0.03	3	3	18
CC73174		10	<1	0.06	10	0.49	988	<1	0.01	12	960	5	0.05	8	5	35
CC73175		10	<1	0.05	10	0.31	374	<1	0.01	9	530	3	0.04	5	1	17
CC73176		<10	<1	0.05	10	0.60	356	<1	0.01	16	630	3	0.03	3	3	18
CC73177		<10	<1	0.04	10	0.65	353	<1	0.02	15	530	2	0.02	4	3	20
CC73178		10	1	0.05	10	0.41	427	<1	0.01	12	1000	3	0.07	2	1	19
CC73179		10	1	0.08	10	0.85	521	<1	0.01	26	820	4	0.04	4	5	30
CC73180		<10	1	0.05	10	0.59	383	<1	0.02	15	620	2	0.06	3	3	37
CC73181		<10	1	0.05	10	0.59	411	<1	0.01	15	920	2	0.05	<2	3	29
CC73182		<10	<1	0.05	10	0.54	438	<1	0.01	13	800	4	0.03	<2	2	24
CC73183		10	<1	0.05	10	0.60	403	<1	0.01	15	780	5	0.02	<2	1	20
CC73184		<10	<1	0.05	10	0.67	493	<1	0.02	17	1050	4	0.02	<2	3	24
CC73185		<10	<1	0.05	10	0.65	457	<1	0.02	16	1000	4	0.02	<2	2	23
CC73186		10	<1	0.06	10	0.82	617	<1	0.02	20	1110	4	0.01	<2	5	31
CC73187		10	<1	0.06	10	0.75	582	<1	0.02	18	1160	5	0.02	<2	4	31
CC73188		<10	<1	0.05	10	0.67	552	<1	0.02	16	1360	6	<0.01	<2	4	25
CC73189		10	<1	0.08	10	0.90	693	<1	0.02	25	1110	5	0.03	<2	5	29
CC73190		10	<1	0.08	10	0.85	733	<1	0.02	23	880	5	0.02	<2	4	25
CC73191		<10	<1	0.06	10	0.60	537	<1	0.02	16	1170	3	0.01	<2	3	30
CC73192		<10	<1	0.04	10	0.41	267	<1	0.01	10	600	5	0.03	<2	1	14
CC73193		<10	<1	0.05	10	0.43	1720	<1	0.01	13	1090	7	0.08	<2	1	15
CC73194		10	<1	0.05	10	0.73	696	<1	0.02	17	1130	5	0.05	<2	2	32
CC73195		<10	<1	0.05	10	0.79	590	<1	0.02	17	1030	4	0.02	<2	3	42
CC73196		<10	<1	0.06	10	0.75	671	<1	0.02	21	790	5	0.02	<2	4	33
CC73197		10	<1	0.06	10	0.74	494	<1	0.02	21	980	10	0.04	<2	2	28
CC73198		<10	<1	0.05	10	0.71	586	<1	0.02	19	890	6	0.01	<2	5	24
CC73199		<10	<1	0.05	10	0.66	477	<1	0.02	17	1310	6	0.06	<2	3	27
CC73200		10	<1	0.06	10	0.71	513	<1	0.02	20	990	5	0.01	<2	3	21



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Project: ROSY

Page: 5 - C

Total # Pages: 9 (A - C)

Plus Appendix Pages

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Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC73161		<20	0.04	<10	<10	59	<10	49
CC73162		<20	0.04	<10	<10	51	<10	33
CC73163		<20	0.05	<10	<10	57	<10	41
CC73164		<20	0.03	<10	<10	57	<10	41
CC73165		<20	0.04	<10	<10	54	<10	43
CC73166		<20	0.04	<10	<10	57	<10	46
CC73167		<20	0.03	<10	<10	62	<10	46
CC73168		<20	0.03	<10	<10	62	<10	50
CC73169		<20	0.04	<10	<10	58	<10	51
CC73170		<20	0.04	<10	<10	52	<10	38
CC73171		<20	0.04	<10	<10	54	<10	47
CC73172		<20	0.02	<10	<10	65	<10	40
CC73173		<20	0.03	<10	<10	54	<10	45
CC73174		<20	0.02	<10	<10	110	<10	52
CC73175		<20	0.04	<10	<10	61	<10	26
CC73176		<20	0.03	<10	<10	57	<10	34
CC73177		<20	0.03	<10	<10	55	<10	33
CC73178		<20	0.02	<10	<10	61	<10	38
CC73179		<20	0.03	<10	<10	55	<10	60
CC73180		<20	0.03	<10	<10	47	<10	36
CC73181		<20	0.03	<10	<10	49	<10	35
CC73182		<20	0.03	<10	<10	47	<10	34
CC73183		<20	0.03	<10	<10	55	<10	35
CC73184		<20	0.03	<10	<10	54	<10	42
CC73185		<20	0.03	<10	<10	57	<10	42
CC73186		<20	0.04	<10	<10	66	<10	50
CC73187		<20	0.04	<10	<10	63	<10	47
CC73188		<20	0.05	<10	<10	64	<10	42
CC73189		<20	0.04	<10	<10	73	<10	58
CC73190		<20	0.04	<10	<10	68	<10	50
CC73191		<20	0.05	<10	<10	49	<10	34
CC73192		<20	0.05	<10	<10	52	<10	24
CC73193		<20	0.03	<10	<10	56	<10	39
CC73194		<20	0.03	<10	<10	62	<10	44
CC73195		<20	0.04	<10	<10	63	<10	43
CC73196		<20	0.04	<10	<10	60	<10	41
CC73197		<20	0.03	<10	<10	61	<10	48
CC73198		<20	0.04	<10	<10	57	<10	48
CC73199		<20	0.02	<10	<10	54	<10	53
CC73200		<20	0.04	<10	<10	53	<10	44



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Page: 6 - A

Total # Pages: 9 (A - C)

Plus Appendix Pages

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC73001		0.30	0.002	0.2	1.54	9	<10	140	<0.5	<2	0.26	<0.5	11	44	29	3.05
CC73002		0.28	0.002	0.2	1.98	7	<10	90	<0.5	2	0.30	<0.5	14	56	43	3.35
CC73003		0.30	<0.001	0.3	1.98	8	<10	130	0.5	<2	0.38	<0.5	16	52	41	3.33
CC73004		0.34	0.001	0.2	1.54	7	<10	70	<0.5	<2	0.31	<0.5	12	46	32	3.17
CC73005		0.32	0.002	0.2	1.44	6	<10	130	<0.5	<2	0.18	<0.5	8	34	24	2.46
CC73006		0.32	0.001	0.2	2.12	41	<10	310	1.3	<2	0.50	<0.5	17	46	61	4.77
CC73007		0.22	<0.001	0.2	1.25	10	<10	110	<0.5	<2	0.11	<0.5	7	33	18	2.59
CC73008		0.32	0.002	<0.2	1.52	38	<10	220	0.9	<2	0.38	<0.5	15	32	52	5.59
CC73009		0.32	0.008	<0.2	1.38	52	<10	240	1.2	<2	0.59	<0.5	13	25	28	5.50
CC73010		0.32	0.004	0.2	2.11	7	<10	120	0.6	<2	0.40	<0.5	13	40	34	3.36
CC73011		0.22	0.006	0.3	1.28	8	<10	180	0.5	<2	0.51	<0.5	7	21	15	2.16
CC73012		0.20	0.003	0.3	1.63	8	<10	190	0.7	<2	0.60	<0.5	6	25	18	2.61
CC73013		0.20	0.005	0.3	1.05	11	<10	120	<0.5	2	0.45	<0.5	8	26	17	2.32
CC73014		0.24	0.002	0.2	1.40	10	<10	160	0.5	<2	0.53	<0.5	9	29	20	2.48
CC73015		0.26	0.002	0.2	1.36	21	<10	90	0.6	<2	0.31	<0.5	8	25	11	3.02
CC73016		0.18	0.006	0.3	1.40	7	<10	200	0.5	<2	0.87	<0.5	7	27	14	2.27
CC73017		0.24	0.005	<0.2	1.35	11	<10	80	<0.5	<2	0.29	<0.5	9	36	16	2.50
CC73018		0.28	0.002	<0.2	1.21	8	<10	70	<0.5	<2	0.30	<0.5	7	27	20	2.03
CC73019		0.26	0.003	<0.2	1.22	12	<10	80	<0.5	<2	0.32	<0.5	8	28	14	2.42
CC73020		0.28	0.003	0.3	1.79	15	<10	190	0.6	<2	0.51	<0.5	10	36	19	2.91
CC73021		0.24	0.011	<0.2	1.12	66	<10	280	0.6	<2	0.56	<0.5	8	24	5	3.82
CC73022		0.28	0.006	0.3	1.62	11	<10	170	0.5	2	0.37	<0.5	9	38	25	2.81
CC73023		0.30	0.002	<0.2	1.35	12	<10	80	<0.5	<2	0.28	<0.5	8	32	14	2.42
CC73024		0.30	0.003	0.3	1.55	17	<10	160	0.5	<2	0.44	<0.5	12	43	20	3.32
CC73025		0.34	0.002	0.2	1.27	9	<10	90	<0.5	<2	0.28	<0.5	9	31	17	2.48
CC73026		0.40	0.009	<0.2	1.49	21	<10	200	0.6	<2	0.33	<0.5	9	38	10	3.81
CC73027		0.24	0.019	0.3	1.07	48	<10	300	0.5	<2	0.67	<0.5	5	22	8	2.77
CC73028		0.36	0.032	0.2	1.72	58	<10	200	0.6	<2	0.44	<0.5	11	34	19	3.36
CC73029		0.34	0.010	<0.2	1.53	21	<10	110	0.5	<2	0.34	<0.5	10	32	17	2.77
CC73030		0.26	0.005	<0.2	1.45	14	<10	120	0.5	<2	0.28	<0.5	9	29	17	2.59
CC73031		0.26	0.024	0.2	2.18	22	<10	230	1.5	<2	0.25	<0.5	9	26	20	3.45
CC73032		0.26	0.003	<0.2	1.93	15	<10	220	0.6	<2	0.37	<0.5	10	36	28	3.14
CC73033		0.40	0.006	0.2	1.50	12	<10	110	<0.5	<2	0.44	<0.5	11	35	31	2.71
CC73034		0.34	0.003	0.2	1.67	8	<10	120	0.5	<2	0.35	<0.5	9	35	25	2.71
CC73035		0.24	0.004	<0.2	1.77	6	<10	150	0.8	<2	0.28	<0.5	7	30	19	2.66
CC73036		0.26	0.002	<0.2	1.41	6	<10	100	<0.5	<2	0.36	<0.5	7	30	18	2.02
CC73037		0.28	0.003	0.3	1.44	8	<10	100	<0.5	2	0.35	<0.5	9	33	24	2.52
CC73038		0.24	0.002	0.4	1.59	13	<10	190	0.5	2	0.33	<0.5	7	23	13	2.82
CC73039		0.18	0.002	0.2	1.22	6	<10	160	<0.5	<2	0.26	<0.5	7	29	13	2.15
CC73040		0.18	0.003	0.2	1.24	6	<10	140	<0.5	2	0.24	<0.5	8	30	19	2.45



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Project: ROSY

Page: 6 - B  
Total # Pages: 9 (A - C)  
Plus Appendix Pages  
Finalized Date: 24-SEP-2009  
Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC73001		10	<1	0.06	10	0.67	412	<1	0.02	20	980	5	0.07	<2	2	16
CC73002		10	<1	0.07	10	0.91	615	1	0.03	28	810	6	0.04	<2	3	18
CC73003		<10	<1	0.07	10	0.98	709	<1	0.03	30	820	6	0.03	<2	4	26
CC73004		<10	<1	0.06	10	0.80	400	<1	0.02	23	920	4	0.03	<2	2	18
CC73005		10	<1	0.05	10	0.49	441	1	0.02	16	940	5	0.07	<2	1	13
CC73006		<10	1	0.07	30	0.70	1430	<1	0.02	30	1510	13	0.08	<2	5	23
CC73007		10	<1	0.03	10	0.24	613	<1	0.01	10	790	7	0.07	<2	1	11
CC73008		<10	<1	0.07	10	0.38	1230	<1	0.01	18	1680	7	0.04	5	8	13
CC73009		<10	<1	0.09	10	0.34	1410	<1	0.01	20	1200	7	0.02	3	10	15
CC73010		<10	1	0.07	10	1.03	935	<1	0.02	21	1200	7	0.02	<2	5	20
CC73011		<10	<1	0.09	10	0.35	1080	<1	0.02	8	1540	6	0.09	<2	2	38
CC73012		<10	<1	0.05	30	0.42	576	<1	0.02	9	1910	6	0.11	<2	3	31
CC73013		<10	<1	0.08	10	0.53	863	<1	0.02	11	1190	5	0.06	<2	1	25
CC73014		<10	<1	0.06	10	0.59	677	<1	0.02	12	1430	5	0.07	<2	2	29
CC73015		<10	<1	0.07	10	0.49	641	<1	0.02	10	1230	5	0.04	<2	3	20
CC73016		<10	1	0.05	10	0.40	992	<1	0.02	10	2460	7	0.17	<2	2	46
CC73017		<10	<1	0.08	10	0.54	613	1	0.01	19	1110	5	0.04	<2	1	15
CC73018		10	<1	0.05	10	0.52	430	<1	0.02	14	1050	5	0.04	<2	1	17
CC73019		<10	<1	0.07	10	0.51	517	<1	0.02	14	1200	5	0.04	<2	1	15
CC73020		10	<1	0.05	10	0.69	769	<1	0.02	15	1880	4	0.08	<2	3	28
CC73021		<10	<1	0.09	10	0.36	565	<1	0.01	10	1730	5	0.05	<2	8	24
CC73022		10	<1	0.05	10	0.63	534	<1	0.02	23	1000	6	0.04	<2	2	20
CC73023		<10	1	0.03	10	0.50	332	<1	0.01	16	870	7	0.03	<2	2	14
CC73024		<10	<1	0.07	10	0.79	800	<1	0.02	22	1100	6	0.03	<2	6	23
CC73025		<10	<1	0.04	10	0.50	383	<1	0.01	17	890	6	0.03	<2	1	15
CC73026		10	<1	0.07	10	0.51	746	<1	0.01	14	1670	4	0.06	<2	3	21
CC73027		<10	<1	0.06	20	0.24	525	<1	0.02	7	2170	4	0.15	<2	3	38
CC73028		10	<1	0.07	10	0.78	832	<1	0.02	15	1400	6	0.03	<2	5	22
CC73029		<10	<1	0.06	10	0.75	727	<1	0.02	14	1090	5	0.03	<2	2	20
CC73030		<10	<1	0.06	10	0.54	604	<1	0.01	12	1230	5	0.06	<2	1	19
CC73031		10	<1	0.09	20	0.81	1400	<1	0.01	14	1240	17	0.05	<2	4	16
CC73032		<10	<1	0.07	10	0.73	789	<1	0.02	16	1190	5	0.05	<2	2	22
CC73033		<10	<1	0.06	10	0.78	590	<1	0.02	18	1040	5	0.01	<2	3	22
CC73034		<10	<1	0.06	10	0.76	471	<1	0.02	15	1000	4	0.03	<2	3	19
CC73035		10	1	0.06	10	0.64	538	<1	0.01	12	1200	7	0.06	<2	1	17
CC73036		<10	<1	0.05	10	0.63	306	<1	0.02	14	1000	4	0.04	<2	1	19
CC73037		10	1	0.07	10	0.64	475	<1	0.02	16	1020	3	0.04	<2	1	19
CC73038		<10	<1	0.10	10	0.53	752	<1	0.01	9	1750	4	0.09	<2	1	14
CC73039		10	<1	0.07	10	0.44	590	<1	0.01	11	780	5	0.07	<2	1	19
CC73040		<10	<1	0.06	10	0.43	713	<1	0.01	12	930	4	0.07	<2	<1	18



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Page: 6 - C

Total # Pages: 9 (A - C)

Plus Appendix Pages

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## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC73001		<20	0.05	<10	<10	80	<10	36
CC73002		<20	0.08	<10	<10	91	<10	51
CC73003		<20	0.05	<10	<10	81	<10	49
CC73004		<20	0.08	<10	<10	83	<10	40
CC73005		<20	0.02	<10	<10	60	<10	44
CC73006		<20	0.01	<10	<10	87	<10	78
CC73007		<20	0.04	<10	<10	79	<10	38
CC73008		<20	0.01	<10	<10	90	<10	93
CC73009		<20	<0.01	<10	<10	67	<10	66
CC73010		<20	0.02	<10	<10	70	<10	59
CC73011		<20	0.01	<10	<10	43	<10	38
CC73012		<20	0.01	<10	<10	57	<10	49
CC73013		<20	0.02	<10	<10	50	<10	66
CC73014		<20	0.02	<10	<10	54	<10	50
CC73015		<20	0.02	<10	<10	65	<10	48
CC73016		<20	0.02	<10	<10	55	<10	39
CC73017		<20	0.03	<10	<10	57	<10	50
CC73018		<20	0.03	<10	<10	50	<10	35
CC73019		<20	0.03	<10	<10	56	<10	49
CC73020		<20	0.03	<10	<10	69	<10	60
CC73021		<20	0.01	<10	<10	75	<10	54
CC73022		<20	0.04	<10	<10	63	<10	54
CC73023		<20	0.05	<10	<10	53	<10	33
CC73024		<20	0.04	<10	<10	77	<10	64
CC73025		<20	0.04	<10	<10	58	<10	39
CC73026		<20	0.02	<10	<10	82	<10	75
CC73027		<20	0.01	<10	<10	61	<10	48
CC73028		<20	0.03	<10	<10	75	<10	62
CC73029		<20	0.05	<10	<10	69	<10	49
CC73030		<20	0.02	<10	<10	57	<10	36
CC73031		<20	0.01	<10	<10	59	<10	62
CC73032		<20	0.02	<10	<10	70	<10	53
CC73033		<20	0.04	<10	<10	62	<10	45
CC73034		<20	0.03	<10	<10	62	<10	51
CC73035		<20	0.02	<10	<10	59	<10	48
CC73036		<20	0.03	<10	<10	49	<10	40
CC73037		<20	0.04	<10	<10	61	<10	43
CC73038		<20	0.01	<10	<10	57	<10	56
CC73039		<20	0.03	<10	<10	56	<10	44
CC73040		<20	0.02	<10	<10	60	<10	49



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Project: ROSY

Page: 7 - A

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC73041		0.18	0.002	0.2	1.30	7	<10	100	<0.5	2	0.14	<0.5	5	33	16	2.79
CC73042		0.42	0.004	0.3	1.80	14	<10	290	<0.5	<2	0.37	<0.5	19	53	53	4.04
CC73043		0.46	0.003	0.2	0.97	11	<10	890	0.6	<2	0.43	<0.5	13	17	42	3.43
CC73044		0.48	0.005	0.2	1.22	12	<10	220	<0.5	2	0.44	<0.5	17	52	57	3.62
CC73045		0.32	0.014	0.2	1.83	53	<10	310	0.5	<2	0.39	<0.5	17	44	56	4.05
CC73046		0.46	0.008	0.6	1.38	100	<10	430	0.9	<2	0.42	<0.5	18	36	35	5.72
CC73047		0.34	0.009	<0.2	1.47	34	<10	170	<0.5	<2	0.37	<0.5	18	47	46	3.78
CC73048		0.54	0.006	<0.2	1.69	31	<10	210	<0.5	<2	0.31	<0.5	18	49	41	4.24
CC73049		0.36	0.009	<0.2	2.19	40	<10	300	0.5	<2	0.53	<0.5	22	61	70	4.74
CC73050		0.38	0.010	0.3	0.76	31	<10	740	0.7	<2	0.58	<0.5	18	20	48	4.20
CC73051		0.40	0.007	0.2	1.30	24	<10	140	<0.5	<2	0.31	<0.5	12	40	27	3.17
CC73052		0.40	0.006	0.3	1.50	32	<10	340	0.7	<2	0.46	<0.5	12	40	32	3.93
CC73053		0.38	0.010	0.3	1.95	68	<10	370	0.6	<2	0.46	<0.5	14	44	26	3.84
CC73054		0.38	0.012	10.8	1.51	71	<10	270	0.7	2	0.40	<0.5	12	39	28	4.01
CC73055		0.28	0.008	<0.2	1.90	41	<10	400	0.6	<2	0.38	<0.5	13	41	33	3.28
CC73056		0.44	0.007	<0.2	2.16	66	<10	360	0.7	<2	0.37	<0.5	16	46	34	3.76
CC73057		0.34	0.004	<0.2	1.66	44	<10	240	0.5	<2	0.29	<0.5	13	40	24	3.45
CC73058		0.32	0.005	<0.2	1.78	34	<10	280	0.6	<2	0.27	<0.5	12	39	24	3.37
CC73059		0.36	0.005	<0.2	1.66	41	<10	250	0.5	<2	0.31	<0.5	14	42	33	3.42
CC73060		0.40	0.007	<0.2	1.34	21	<10	200	<0.5	<2	0.34	<0.5	12	40	31	3.07
CC73061		0.48	0.004	<0.2	1.81	23	<10	240	0.5	<2	0.27	<0.5	15	46	36	3.50
CC73062		0.34	0.006	<0.2	2.52	59	<10	300	0.7	<2	0.27	<0.5	19	55	47	4.13
CC73063		0.32	0.004	<0.2	1.95	37	<10	360	0.5	<2	0.32	<0.5	16	46	32	3.78
CC73064		0.28	0.003	<0.2	2.03	45	<10	330	0.6	2	0.27	<0.5	15	47	32	3.94
CC73065		0.30	0.011	<0.2	2.22	128	<10	470	0.7	<2	0.41	<0.5	19	50	42	4.22
CC73066		0.32	0.007	<0.2	1.47	39	<10	210	0.5	<2	0.32	<0.5	14	40	23	3.63
CC73067		0.36	0.004	<0.2	1.46	41	<10	110	<0.5	<2	0.23	<0.5	12	37	17	3.43
CC73068		0.32	0.006	<0.2	2.05	67	<10	390	0.6	<2	0.34	<0.5	16	45	33	3.96
CC73069		0.34	0.013	<0.2	1.20	306	<10	430	0.7	<2	0.35	<0.5	13	25	19	4.38
CC73070		0.42	0.082	<0.2	1.63	106	<10	320	1.1	<2	1.34	<0.5	26	44	23	6.01
CC73071		0.42	0.008	<0.2	1.55	33	<10	100	0.5	<2	0.33	<0.5	11	34	20	2.87
CC73072		0.40	0.005	<0.2	1.59	29	<10	110	0.6	<2	0.39	<0.5	13	38	22	3.28
CC73073		0.32	0.026	<0.2	1.70	91	<10	140	0.6	<2	0.46	<0.5	11	45	33	3.40
CC73074		0.34	0.032	<0.2	1.69	105	<10	110	0.6	<2	0.47	<0.5	12	41	28	3.69
CC73075		0.46	0.007	<0.2	1.30	34	<10	110	0.5	2	0.40	<0.5	13	34	28	2.95
CC73076		0.42	0.012	<0.2	1.46	72	<10	130	0.6	<2	0.28	<0.5	9	33	22	2.77
CC73077		0.44	0.014	<0.2	1.41	97	<10	170	0.9	<2	0.52	<0.5	14	35	18	3.88
CC73078		0.44	0.004	<0.2	2.03	24	<10	100	0.8	<2	0.30	<0.5	11	39	18	3.83
CC73079		0.38	0.004	<0.2	1.34	31	<10	120	0.5	<2	0.48	<0.5	10	29	16	3.14
CC73080		0.38	0.002	<0.2	1.52	20	<10	120	0.5	2	0.46	<0.5	11	33	21	3.07



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Page: 7 - B

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Plus Appendix Pages

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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC73041		10	<1	0.05	10	0.29	304	<1	0.01	9	660	4	0.08	<2	1	12
CC73042		10	<1	0.08	10	0.95	695	<1	0.03	45	830	8	0.02	<2	6	18
CC73043		<10	<1	0.11	10	0.35	1370	<1	0.02	16	1160	5	0.01	<2	7	16
CC73044		<10	1	0.09	10	0.80	654	<1	0.02	42	900	7	<0.01	<2	7	19
CC73045		10	<1	0.10	10	0.89	808	<1	0.02	38	830	7	0.03	<2	6	19
CC73046		<10	<1	0.09	20	0.45	1430	<1	0.02	23	1610	10	0.03	5	12	18
CC73047		<10	<1	0.06	10	0.89	607	<1	0.02	38	700	6	0.02	<2	6	18
CC73048		10	<1	0.07	10	0.87	683	<1	0.02	35	860	5	0.03	<2	5	16
CC73049		10	<1	0.09	10	1.22	856	<1	0.03	49	870	7	0.03	<2	10	26
CC73050		<10	<1	0.10	20	0.25	1580	<1	0.02	20	1440	7	0.02	2	9	23
CC73051		<10	<1	0.06	10	0.69	518	<1	0.02	27	770	4	0.03	<2	4	16
CC73052		<10	<1	0.09	10	0.67	851	<1	0.02	23	1050	7	0.02	4	9	23
CC73053		10	<1	0.10	10	0.83	838	<1	0.02	26	970	6	0.04	<2	7	30
CC73054		<10	<1	0.09	10	0.62	761	<1	0.01	22	1020	6	0.03	10	9	19
CC73055		<10	<1	0.08	10	0.74	894	<1	0.01	26	1240	6	0.07	2	3	23
CC73056		<10	<1	0.09	10	0.82	929	<1	0.01	28	1060	6	0.05	4	6	23
CC73057		<10	<1	0.08	10	0.67	766	<1	0.01	20	1030	4	0.05	4	2	19
CC73058		10	<1	0.06	10	0.63	830	<1	0.01	22	960	4	0.05	4	3	18
CC73059		<10	<1	0.08	10	0.82	749	<1	0.01	29	680	4	0.02	2	5	17
CC73060		<10	<1	0.07	10	0.73	547	<1	0.01	28	780	2	0.01	3	5	16
CC73061		<10	<1	0.08	10	0.84	637	<1	0.01	37	580	4	0.02	2	4	16
CC73062		10	<1	0.10	10	1.06	939	<1	0.02	39	780	5	0.04	2	5	18
CC73063		<10	<1	0.07	10	0.85	923	<1	0.01	28	970	4	0.04	4	4	19
CC73064		10	1	0.08	10	0.87	811	1	0.02	30	850	5	0.04	3	5	19
CC73065		10	1	0.10	10	0.89	1065	<1	0.02	34	1260	7	0.05	6	7	24
CC73066		<10	1	0.06	10	0.74	756	<1	0.01	24	770	2	0.02	3	5	19
CC73067		<10	<1	0.05	10	0.67	644	<1	0.01	16	670	<2	0.03	4	3	17
CC73068		10	1	0.07	10	0.81	915	<1	0.01	26	1140	4	0.06	4	5	23
CC73069		<10	1	0.08	10	0.31	1010	<1	0.01	18	960	5	0.04	11	7	16
CC73070		<10	<1	0.19	30	0.67	1785	1	0.02	43	2870	2	0.02	5	21	49
CC73071		<10	<1	0.05	10	0.70	587	<1	0.01	18	1090	3	0.02	3	3	15
CC73072		<10	<1	0.07	10	0.89	866	<1	0.01	19	1140	<2	0.03	2	5	18
CC73073		<10	<1	0.07	10	0.87	591	<1	0.01	24	880	2	0.03	3	6	21
CC73074		<10	<1	0.06	10	0.72	651	<1	0.01	16	1340	2	0.05	4	2	22
CC73075		<10	1	0.07	10	0.77	857	<1	0.01	20	1150	2	0.01	3	5	18
CC73076		10	1	0.06	10	0.63	628	<1	0.01	13	1110	3	0.03	3	3	17
CC73077		<10	<1	0.08	20	0.72	1320	<1	0.01	17	1570	4	0.02	4	10	19
CC73078		10	1	0.06	10	0.82	840	<1	0.01	17	1670	3	0.06	<2	5	18
CC73079		<10	1	0.05	10	0.61	604	<1	0.01	13	1250	3	0.05	<2	4	20
CC73080		<10	1	0.05	10	0.72	585	<1	0.01	17	820	4	0.03	2	5	22



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Project: ROSY

Page: 7 - C  
Total # Pages: 9 (A - C)  
Plus Appendix Pages  
Finalized Date: 24-SEP-2009  
Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC73041		<20	0.05	<10	<10	64	<10	39
CC73042		<20	0.07	<10	<10	130	<10	66
CC73043		<20	0.01	<10	<10	42	<10	55
CC73044		<20	0.09	<10	<10	126	<10	49
CC73045		<20	0.06	<10	<10	115	<10	66
CC73046		<20	0.01	<10	<10	99	<10	102
CC73047		<20	0.08	<10	<10	128	<10	50
CC73048		<20	0.06	<10	<10	151	<10	67
CC73049		<20	0.08	<10	<10	156	<10	75
CC73050		<20	<0.01	<10	<10	49	<10	73
CC73051		<20	0.06	<10	<10	91	<10	43
CC73052		<20	0.03	<10	<10	90	<10	68
CC73053		<20	0.03	<10	<10	83	<10	70
CC73054		<20	0.02	<10	<10	84	<10	72
CC73055		<20	0.04	<10	<10	71	<10	60
CC73056		<20	0.03	<10	<10	83	<10	68
CC73057		<20	0.03	<10	<10	78	<10	57
CC73058		<20	0.02	<10	<10	77	<10	52
CC73059		<20	0.06	<10	<10	84	<10	58
CC73060		<20	0.07	<10	<10	81	<10	51
CC73061		<20	0.07	<10	<10	91	<10	52
CC73062		<20	0.06	<10	<10	99	<10	76
CC73063		<20	0.05	<10	<10	93	<10	64
CC73064		<20	0.05	<10	<10	89	<10	66
CC73065		<20	0.04	<10	<10	95	<10	79
CC73066		<20	0.04	<10	<10	88	<10	53
CC73067		<20	0.04	<10	<10	85	<10	47
CC73068		<20	0.03	<10	<10	90	<10	64
CC73069		<20	0.01	<10	<10	65	<10	63
CC73070		<20	0.07	<10	<10	104	<10	117
CC73071		<20	0.04	<10	<10	62	<10	43
CC73072		<20	0.03	<10	<10	73	<10	56
CC73073		<20	0.03	<10	<10	71	<10	65
CC73074		<20	0.02	<10	<10	78	<10	58
CC73075		<20	0.04	<10	<10	61	<10	52
CC73076		<20	0.02	<10	<10	60	<10	55
CC73077		<20	0.02	<10	<10	79	<10	73
CC73078		<20	0.02	<10	<10	84	<10	74
CC73079		<20	0.02	<10	<10	68	<10	48
CC73080		<20	0.03	<10	<10	66	<10	52



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Project: ROSY

Page: 8 - A

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC73081		0.42	0.002	<0.2	1.48	12	<10	120	0.5	<2	0.43	<0.5	8	28	11	2.62
CC73082		0.40	0.002	<0.2	1.53	11	<10	140	0.5	<2	0.36	<0.5	10	34	18	3.15
CC73083		0.34	0.002	<0.2	1.41	12	<10	180	0.6	<2	0.56	<0.5	9	31	17	3.20
CC73084		0.38	0.004	<0.2	1.48	7	<10	110	<0.5	<2	0.22	<0.5	8	32	13	2.70
CC73085		0.36	0.002	<0.2	1.55	4	<10	150	0.6	<2	0.38	<0.5	7	26	13	2.35
CC73086		0.30	0.001	<0.2	1.50	8	<10	100	0.6	<2	0.53	<0.5	9	33	14	2.93
CC73087		0.18	0.001	<0.2	1.48	6	<10	100	0.5	<2	0.44	<0.5	8	28	15	2.50
CC73088		0.26	0.014	<0.2	1.24	4	<10	120	0.5	<2	0.71	<0.5	5	21	19	1.77
CC73089		0.30	0.001	<0.2	1.77	4	<10	120	0.5	<2	0.64	<0.5	10	42	16	3.34
CC73090		0.44	0.007	<0.2	1.70	10	<10	160	<0.5	<2	0.44	<0.5	13	52	54	2.77
CC73091		0.28	0.005	<0.2	1.94	13	<10	120	<0.5	<2	0.27	<0.5	14	55	44	2.86
CC73092		0.34	0.002	<0.2	1.51	5	<10	110	<0.5	<2	0.50	<0.5	8	36	45	1.93
CC73093		0.34	0.002	<0.2	1.87	5	<10	170	0.5	<2	0.64	<0.5	10	47	44	2.65
CC73094		0.34	0.006	<0.2	1.70	10	<10	80	<0.5	<2	0.22	<0.5	11	50	32	2.55
CC73095		0.30	0.002	<0.2	0.99	4	<10	80	<0.5	<2	0.15	<0.5	6	29	17	1.78
CC73096		0.48	0.003	<0.2	1.62	14	<10	130	<0.5	<2	0.41	<0.5	12	46	36	2.64
CC73097		0.32	0.001	<0.2	1.52	11	<10	120	<0.5	<2	0.29	<0.5	9	39	32	2.42
CC73098		0.34	0.002	<0.2	1.45	6	<10	140	<0.5	<2	0.32	<0.5	8	36	16	2.28
CC73099		0.32	0.003	<0.2	1.71	10	<10	140	<0.5	<2	0.30	<0.5	10	42	24	2.80
CC73100		0.46	0.109	<0.2	1.66	6	<10	160	0.5	<2	0.49	<0.5	12	46	39	2.78
CC73101		Not Recvd														
CC73102		Not Recvd														
CC73103		Not Recvd														
CC73104		Not Recvd														
CC73105		Not Recvd														
CC73106		Not Recvd														
CC73107		Not Recvd														
CC73108		Not Recvd														
CC73109		Not Recvd														
CC73110		Not Recvd														
CC73111		Not Recvd														
CC73112		Not Recvd														
CC73113		Not Recvd														
CC73114		Not Recvd														
CC73115		Not Recvd														
CC73116		Not Recvd														
CC73117		Not Recvd														
CC73118		Not Recvd														
CC73119		Not Recvd														
CC69101		0.26	0.003	<0.2	1.61	9	<10	120	<0.5	<2	0.37	<0.5	12	45	44	2.67



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Project: ROSY

Page: 8 - B

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC73081		<10	1	0.04	10	0.54	383	<1	0.01	11	1410	<2	0.07	<2	2	19
CC73082		10	<1	0.06	10	0.68	600	<1	0.01	15	1170	3	0.04	2	5	17
CC73083		<10	1	0.05	20	0.60	516	<1	0.01	14	1480	<2	0.05	2	7	24
CC73084		<10	<1	0.04	10	0.47	497	<1	0.01	11	1040	<2	0.07	<2	1	16
CC73085		<10	1	0.04	20	0.52	453	<1	0.02	11	1780	2	0.10	<2	3	22
CC73086		10	<1	0.05	20	0.69	440	<1	0.01	13	1350	<2	0.07	2	7	23
CC73087		<10	<1	0.04	10	0.56	369	<1	0.01	12	1330	<2	0.08	2	3	21
CC73088		<10	<1	0.03	30	0.38	296	<1	0.01	6	1860	<2	0.14	<2	4	27
CC73089		10	<1	0.05	10	0.92	432	<1	0.01	16	1150	<2	0.06	2	7	26
CC73090		<10	1	0.06	10	1.04	516	1	0.01	28	960	5	0.02	<2	3	22
CC73091		<10	<1	0.06	10	1.10	584	1	0.01	27	820	3	0.02	2	3	17
CC73092		<10	<1	0.06	10	0.64	247	1	0.01	15	850	5	0.04	<2	3	31
CC73093		<10	<1	0.06	10	0.90	457	1	0.01	22	1410	5	0.06	2	4	37
CC73094		<10	<1	0.04	10	0.95	375	1	0.01	21	590	2	0.02	<2	2	15
CC73095		<10	<1	0.04	<10	0.39	305	1	0.01	9	670	5	0.05	<2	<1	13
CC73096		<10	<1	0.04	10	0.96	403	1	0.01	23	750	4	0.01	<2	3	22
CC73097		<10	<1	0.04	10	0.65	464	1	0.01	14	820	5	0.05	<2	1	17
CC73098		<10	<1	0.04	10	0.68	353	1	0.01	14	820	5	0.03	<2	2	18
CC73099		<10	<1	0.05	10	0.73	377	1	0.01	18	470	5	0.03	<2	3	17
CC73100		<10	<1	0.06	10	0.93	441	1	0.01	26	960	3	0.01	<2	5	24
CC73101																
CC73102																
CC73103																
CC73104																
CC73105																
CC73106																
CC73107																
CC73108																
CC73109																
CC73110																
CC73111																
CC73112																
CC73113																
CC73114																
CC73115																
CC73116																
CC73117																
CC73118																
CC73119																
CC69101		<10	1	0.05	10	0.93	488	1	0.01	22	830	4	0.02	<2	3	19



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Page: 8 - C

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC73081		<20	0.01	<10	<10	60	<10	43
CC73082		<20	0.02	<10	<10	69	<10	59
CC73083		<20	0.02	<10	<10	68	<10	53
CC73084		<20	0.02	<10	<10	64	<10	38
CC73085		<20	0.02	<10	<10	52	<10	54
CC73086		<20	0.02	<10	<10	64	<10	54
CC73087		<20	0.02	<10	<10	54	<10	49
CC73088		<20	0.02	<10	<10	41	<10	26
CC73089		<20	0.03	<10	<10	77	<10	54
CC73090		<20	0.04	<10	<10	60	<10	50
CC73091		<20	0.03	<10	<10	63	<10	54
CC73092		<20	0.02	<10	<10	44	<10	41
CC73093		<20	0.02	<10	<10	57	<10	54
CC73094		<20	0.03	<10	<10	59	<10	38
CC73095		<20	0.02	<10	<10	45	<10	31
CC73096		<20	0.04	<10	<10	58	<10	38
CC73097		<20	0.02	<10	<10	55	<10	38
CC73098		<20	0.02	<10	<10	51	<10	39
CC73099		<20	0.04	<10	<10	58	<10	40
CC73100		<20	0.03	<10	<10	62	<10	53
CC73101								
CC73102								
CC73103								
CC73104								
CC73105								
CC73106								
CC73107								
CC73108								
CC73109								
CC73110								
CC73111								
CC73112								
CC73113								
CC73114								
CC73115								
CC73116								
CC73117								
CC73118								
CC73119								
CC69101		<20	0.03	<10	<10	57	<10	42



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Page: 9 - A

Total # Pages: 9 (A - C)

Plus Appendix Pages

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Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC69102		0.34	0.002	<0.2	1.27	6	<10	80	<0.5	<2	0.27	<0.5	9	31	24	2.21
CC69103		0.32	0.003	<0.2	1.60	7	<10	60	<0.5	<2	0.17	<0.5	9	33	24	2.59
CC69104		0.30	0.001	<0.2	1.46	7	<10	90	<0.5	<2	0.39	<0.5	8	31	41	2.17
CC69105		0.36	0.003	<0.2	1.24	7	<10	120	<0.5	<2	0.37	<0.5	9	31	33	2.61
CC69106		0.32	0.002	<0.2	1.28	6	<10	50	<0.5	<2	0.19	<0.5	8	33	26	2.08
CC69107		0.32	0.002	<0.2	1.48	12	<10	110	0.6	<2	0.37	<0.5	11	31	29	3.02
CC69108		0.40	0.002	<0.2	1.25	3	<10	130	0.5	2	0.56	<0.5	4	17	36	1.37
CC69109		0.50	0.003	<0.2	1.21	11	<10	140	<0.5	<2	0.54	<0.5	11	33	26	2.49
CC69110		0.32	0.002	<0.2	1.51	8	<10	90	<0.5	<2	0.20	<0.5	8	35	23	2.56
CC69111		0.42	0.008	<0.2	1.37	10	<10	140	0.5	<2	0.47	<0.5	8	31	27	2.37
CC69112		0.34	0.003	<0.2	1.55	10	<10	220	0.5	<2	0.58	<0.5	9	33	29	2.52
CC69113		0.34	0.003	<0.2	1.35	6	<10	170	<0.5	<2	0.48	<0.5	7	21	22	2.01
CC69114		0.34	0.001	<0.2	1.29	6	<10	270	0.7	<2	0.79	<0.5	6	24	27	2.88
CC69115		0.30	0.001	<0.2	1.50	6	<10	180	0.5	<2	0.57	<0.5	9	33	29	2.50
CC69116		0.32	0.012	<0.2	1.24	5	<10	220	<0.5	<2	0.63	<0.5	7	28	16	2.36
CC69117		0.32	0.001	<0.2	1.21	2	<10	180	0.6	<2	0.35	<0.5	5	21	25	1.84
CC69118		0.32	0.001	<0.2	1.09	14	<10	190	0.6	<2	0.25	<0.5	6	18	18	3.44
CC69119		0.26	<0.001	<0.2	0.58	<2	<10	70	<0.5	<2	0.08	<0.5	6	12	10	1.96



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ATAC RESOURCES LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: ROSY

Page: 9 - B

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC69102		<10	<1	0.04	10	0.59	542	1	<0.01	15	980	3	0.03	<2	1	14
CC69103		<10	<1	0.04	10	0.51	393	1	0.01	11	790	4	0.04	<2	1	11
CC69104		<10	1	0.04	10	0.59	307	1	0.01	12	960	5	0.05	<2	1	26
CC69105		<10	<1	0.06	10	0.64	488	1	0.01	14	1170	6	0.04	<2	2	16
CC69106		<10	<1	0.04	10	0.60	295	1	0.01	16	780	4	0.03	<2	1	11
CC69107		10	1	0.06	10	0.64	715	1	0.01	14	1250	4	0.03	<2	2	15
CC69108		<10	<1	0.02	10	0.21	373	1	0.01	5	2210	6	0.14	<2	1	27
CC69109		<10	<1	0.05	10	0.78	601	<1	0.02	15	1250	3	<0.01	<2	4	22
CC69110		<10	<1	0.05	10	0.67	435	1	0.01	13	910	4	0.05	<2	1	14
CC69111		<10	<1	0.05	10	0.56	461	1	0.01	14	1140	6	0.05	<2	2	31
CC69112		<10	<1	0.06	10	0.71	363	1	0.01	14	1040	4	0.04	2	3	29
CC69113		<10	<1	0.04	10	0.49	415	<1	0.02	9	930	3	0.05	<2	1	26
CC69114		<10	<1	0.04	20	0.32	489	1	0.01	8	2410	7	0.11	<2	5	29
CC69115		<10	<1	0.05	10	0.67	495	1	0.01	14	1160	5	0.05	<2	2	25
CC69116		<10	<1	0.05	10	0.47	701	1	0.01	8	1410	3	0.08	<2	1	29
CC69117		<10	<1	0.04	20	0.30	528	1	0.01	8	1530	6	0.10	<2	1	20
CC69118		<10	<1	0.05	10	0.11	775	1	0.01	7	1690	8	0.08	<2	2	14
CC69119		10	<1	0.02	<10	0.11	843	1	0.01	2	640	5	0.05	<2	<1	7



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To: ATAC RESOURCES LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: ROSY

Page: 9 - C

Total # Pages: 9 (A - C)

Plus Appendix Pages

Finalized Date: 24-SEP-2009

Account: RCM

## CERTIFICATE OF ANALYSIS VA09101396

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC69102		<20	0.02	<10	<10	49	<10	36
CC69103		<20	0.02	<10	<10	59	<10	40
CC69104		<20	0.02	<10	<10	49	<10	37
CC69105		<20	0.02	<10	<10	56	<10	50
CC69106		<20	0.02	<10	<10	44	<10	37
CC69107		<20	0.02	<10	<10	64	<10	50
CC69108		<20	0.01	<10	<10	31	<10	30
CC69109		<20	0.05	<10	<10	59	<10	42
CC69110		<20	0.02	<10	<10	60	<10	52
CC69111		<20	0.02	<10	<10	50	<10	50
CC69112		<20	0.02	<10	<10	57	<10	57
CC69113		<20	0.02	<10	<10	44	<10	39
CC69114		<20	0.01	<10	<10	61	<10	52
CC69115		<20	0.02	<10	<10	56	<10	44
CC69116		<20	0.01	<10	<10	59	<10	41
CC69117		<20	0.01	<10	<10	40	<10	39
CC69118		<20	<0.01	<10	<10	68	<10	75
CC69119		<20	0.02	<10	<10	42	<10	33



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LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: ROSY

je: Appendix 1

Total # Appendix Pages: 1

Finalized Date: 24-SEP-2009

Account: RCM

**CERTIFICATE OF ANALYSIS VA09101396**

<b>Method</b>	<b>CERTIFICATE COMMENTS</b>
ALL METHODS	NSS is non-sufficient sample.

QW28461

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 – 510 West Hastings Street  
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568



AFFIDAVIT


I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Rosy 31-90 mineral claims on Claim Sheet 105C/13 is accurate.

  
Joan Mariacher

Sworn before me at Vancouver, B.C.

this 22nd of September 2009.

  
Notary Public, Yukon Territory

Statement of Expenditures  
Rosy 31-90 Mineral Claims  
September 22, 2009

Labour

B. Wengzynowski (geologist) – August – 3 hrs @ \$100/hour	\$ 315.00
M. Turner (geologist) – September 12-22 – 5 days @ \$560/day	2,940.00
D. Gregory (geologist) – September 12-15 – 3 1/2 days @ \$520/day	1,911.00
L. Corbett (expeditor) – August & September – 4 1/4 hrs @ \$60/hr	<u>267.75</u>
	5,433.75

Expenses

Field room and board – 9 days @ \$125/day	1,181.25
Capital Helicopters – 6.4 hrs Bell 206 @ \$1025/hr plus fuel	7,922.21
ALS Chemex	6,582.21
Protore Geological Services	262.50
Air North	<u>296.18</u>
	16,244.35

Total \$21,678.10

316 samples taken = \$68.60/sample





CHARTER AND CONTRACT SERVICE  
 #3 - 25 Pilgrim Pl. Whitehorse, Yukon Y1A 6E6  
 Phone: (867) 668-6200 Fax: (867) 668-6201  
 capitalheli@polarcom.com

FLIGHT TICKET  
 INVOICE

11222

GST # R 899587984

CHARTERER <i>Archer Colton</i>		PILOT <i>Dennis Washington</i>		DATE <i>Sept 12/13</i>	
		SIGNATURE		AIRCRAFT	
		CHEQUE	CASH	CHARGE	
TELEPHONE		POSTAL CODE		PURCHASE ORDER NO.	
				BASE	
CUSTOMER FUEL			FLIGHT ITINERARY		TIME
LITRES FROM			<i>Sept 12 Yx11 - Rose Lake - Yx11 3/2 + P/O</i>		<i>1.9</i>
LITRES FROM			<i>Sept 13 Yx11 - Rose Lake - Yx11 3/2 + P/O</i>		<i>2.0</i>
LITRES FROM			<i>Sept 14 Yx11 - Rose Lake - Yx11 3/2 + P/O</i>		<i>1.9</i>
CAPITAL FUEL <i>6661.2</i>					
LITRES FROM <i>13. (Yx4)</i>					
LITRES FROM					
LITRES FROM					
OTHER CHARGES		DESCRIPTION	AMOUNT		
			RATE PER HOUR \$ <i>1025.00</i>		TOTAL <i>5.8</i>
			PASSENGERS		
PILOT EXPENSES		DESCRIPTION	AMOUNT	FLIGHT FUEL OTHER GST TOTAL	\$ <i>5945.00</i>
			<i>2 PAV.</i>		\$ <i>892.62</i>
					\$ <i>6837.62</i>
					\$ <i>341.88</i>
AUTHORIZED BY (print)		<i>Rosy</i>			\$ <i>7179.50</i>
SIGNATURE <i>[Signature]</i>					

**Workorder:** VA09101396infoC1

**Client Code:** RCM

**Client:** ATAC Resources Ltd.  
**Address:** c/o Archer, Cathro & Associates (1981) Limited  
1016-510 W Hastings St  
Vancouver BC  
V6B 1L8 Canada

**Invoice Date:** 2009-09-17 (SYSTEM)  
**Project:** ROSY  
**PO Number:**  
**Quote:** ALSC-CW09-032-F-R1  
**CPT:** 41 + ICP21 + ICP41  
**Terms:** Net 30 Days

**Phone:** +1 (604) 688-2568

**Fax:** +1 (604) 688-2578

**Comments:**

Quantity	Code	Description	Unit Price	Total Price
93.42	PREP-41	Dry, Sieve (180 um) Soil	1.80	168.16
279	PREP-41	Dry, Sieve (180 um) Soil	1.12	312.48
279	Au-ICP21	Au 30g FA ICP-AES Finish	10.61	2960.19
279	ME-ICP41	35 Element Aqua Regia ICP-AES	4.72	1316.88
279	FA-FUSPG1	FA Fusion for Pt Pd Au - 30g	0.00	0.00
279	GEO-AR01	Aqua regia digestion	2.35	655.65
19	EXTRA-01	Extra Sample received in Shipm	0	0
			<b>SUBTOTAL</b>	<b>\$5,413.36</b>
			<b>R100938885 GST</b>	<b>\$270.67</b>
			<b>PST PST</b>	<b>\$0.00</b>
			<b>TOTAL PAYABLE (CAD)</b>	<b>\$5,684.03</b>

PRELIMINARY INVOICE ONLY

**Workorder:** VA09101397infoC1

**Client Code:** RCM

**Client:** ATAC Resources Ltd.  
**Address:** c/o Archer, Cathro & Associates (1981) Limited  
1016-510 W Hastings St  
Vancouver BC  
V6B 1L8 Canada

**Invoice Date:** 2009-09-17 (SYSTEM)  
**Project:** ROSY  
**PO Number:**  
**Quote:** ALSC-CW09-032-F-R1  
**CPT:** 31A + ICP21 + ICP41  
**Terms:** Net 30 Days

**Phone:** +1 (604) 688-2568

**Billing Entity:** ALSL

**Fax:** +1 (604) 688-2578

**Discount:** 0

**Comments:**

Quantity	Code	Description	Unit Price	Total Price
1	BAT-01	Administration Fee	0.00	0.00
28.4	PREP-31A	Crush, Split, Pulverize	0.52	14.77
37	PREP-31A	Crush, Split, Pulverize	5.04	186.48
37	Au-ICP21	Au 30g FA ICP-AES Finish	10.61	392.57
37	ME-ICP41	35 Element Aqua Regia ICP-AES	4.72	174.64
37	FA-FUSPG1	FA Fusion for Pt Pd Au - 30g	0.00	0.00
37	GEO-AR01	Aqua regia digestion	2.35	86.95
			<b>SUBTOTAL</b>	<b>\$855.41</b>
			<b>R100938885 GST</b>	<b>\$42.77</b>
			<b>PST PST</b>	<b>\$0.00</b>
			<b>TOTAL PAYABLE (CAD)</b>	<b>\$898.18</b>

PRELIMINARY INVOICE ONLY



287|YXY|21708164

287 21708164

0017001

✓  
FAX

SHIPPER'S NAME AND ADDRESS ARCHER, CATHRO & ASSOCIATES 1016-510 W. HASTINGS ST. VANCOUVER BC V6B 1L8 CANADA		SHIPPER'S ACCOUNT NUMBER 14858891	NOT NEGOTIABLE <b>AIR WAYBILL</b> (AIR CONSIGNMENT NOTE)		AIR NORTH LTD. 150 Condor Rd. Whitehorse, YT Y1A 6E6 GST No. R100094499	
CONSIGNEE'S NAME AND ADDRESS ALS Chemex 150-2155 Dollarton HWY North Vancouver BC V7H 3B2 CANADA		CONSIGNEE'S ACCOUNT NUMBER *****	It is agreed that the goods described herein are accepted in a shipment good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.			
ISSUING CARRIER'S AGENT NAME AND CITY AIR NORTH LTD. Whitehorse		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)				
AGENTS IATA CODE 287	ACCOUNT NO.	ACCOUNTING INFORMATION  INVOICE: ARCAT				
AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING Whitehorse						
ROUTING AND DESTINATION TO BY FIRST CARRIER YVR 4N		TO BY	TO BY	CURRENCY CON	DECLARED VALUE FOR CARRIAGE NVD	DECLARED VALUE FOR CUSTOMS NCV
AIRPORT OF DESTINATION Vancouver	FOR CARRIER USE ONLY FLIGHT/DAYS		AMOUNT OF INSURANCE		INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.	TC
HANDLING INFORMATION these commodities licensed by US for ultimate destination PLS DELIVER						

NO. OF PIECES ECP	GROSS WEIGHT	RATE CLASS COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL DIMENSION OR VOLUME)
14	274	P	274.00	0.80  NSC 15%	219.20  32.88	Rick Samples (bags) DIMS 1.0X1.0X1.0 INCHES.
14	274.0				252.08	

PREPAID		WEIGHT CHARGE		COLLECT	P-UP ZCMB	PICKUP CHARGES	ORIGIN ADVANCE CHARGES	DESCRIPTION OF ORIGIN ADVANCE	ITEMS PREPAID
A. 252.08						B.			
		MILWAUKEE CHARGE			DEL ZCMB	C. DELIVERY CHARGES	DEST. ADVANCE CHARGES	DESCRIPTION OF DEST. ADVANCE	ITEMS COLLECT
						C. 30.00			
I. 14.10		TAX			J.	SHIPPER'S R.F.C	OTHER CHARGES AND DESCRIPTION		
TOTAL OTHER CHARGES DUE AGENT		Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national government regulations and for international shipments, the current international Air Transport Association's Restricted Articles Regulations.							
G.F. TOTAL OTHER CHARGES DUE CARRIER		SIGNATURE OF SHIPPER OR HIS AGENT							
E. 30.00									
TOTAL PREPAID		TOTAL COLLECT		EXECUTED ON					
296.18				15-09-2009 13:05 Whitehorse					
CURRENCY/CONVERSION RATES		TOTAL COLLECT IN DESTINATION CURRENCY		(Date) (Time) at (Place) SIGNATURE OF ISSUING CARRIER OR ITS AGENT					
				287 21708164					
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		TOTAL COLLECT CHARGES					

*RATU*  
*ROBY*