

**GEOCHEMICAL  
and  
GEOPHYSICAL**

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BC Gold Commissioner's Office  
Vancouver, BC

**TECHNICAL ASSESSMENT REPORT**

on the

**BC Geological Survey  
Assessment Report  
31835**

**CASTLE PROPERTY**

**SIMILKAMEEN MINING DIVISION**

**N.T.S.: 92H/9W**

**49° 33' 30" North Latitude and 120° 27' 27" West Longitude  
UTM NAD Zone 10 5492750N and 683900E**

**DATE STARTED: MAY 1, 2010**

**DATE COMPLETED: MAY 20, 2010**

**OWNER/OPERATOR: LARRY R. W. SOSTAD**

**AUTHOR: PAUL D. GRAY, P.GEO.**

**SUBMITTED: VANCOUVER, BC**

**DATE: DECEMBER 13, 2010**

**31835**

**PROFESSIONAL  
PROVINCE OF  
P.D. GRAY  
29899  
COLUMBIA  
GEO SCIENTIST  
GEOLOGICAL SURVEY BRANCH  
TECHNICAL REPORT**



**BRITISH COLUMBIA**



Ministry of Energy & Mines  
Energy & Minerals Division  
Geological Survey Branch

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] GEOPHYSICAL AND GEOCHEMICAL TECHNICAL ASSESSMENT REPORT TOTAL COST \$9000 -

AUTHOR(S) PAUL D. GRAY, P. Geo SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) — YEAR OF WORK 2010

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 4783230

PROPERTY NAME CASTLE COPPER

CLAIM NAME(S) (on which work was done) 530877

COMMODITIES SOUGHT Cu, Au, Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 092HNE176

MINING DIVISION SIMILKAMEN NTS 092/H 092H/RW

LATITUDE 49° 33' 30" LONGITUDE 120° 27' 27" (at centre of work)

OWNER(S)  
1) BLUERIVER RESOURCES LTD. 2) \_\_\_\_\_

MAILING ADDRESS  
450 - 650 W. GEORGIA ST.  
VANCOUVER, B.C. V6B 4N8

OPERATOR(S) [who paid for the work]  
1) BLUERIVER RESOURCES LTD. 2) \_\_\_\_\_

MAILING ADDRESS  
450 - 650 W. GEORGIA ST.  
VANCOUVER, B.C. V6B 4N8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):  
Upper Triassic Nicola Group volcanic group Middle Jurassic Osprey Lake Batholith.  
Eocene Princeton Group volcano-sedimentary package. General NW strike.  
Copper oxides + copper sulphides as disseminations and fracture fillings. 150 m wide  
500 m long trend.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS  
7795, 16135, 19165, 20113, 30097

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____	3.6 km	530877	3000
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL</b> (number of samples analysed for ...)			
Soil _____	129	530877	6000
Silt _____			
Rock _____			
Other _____			
<b>DRILLING</b> (total metres; number of holes, size)			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
<b>PROSPECTING (scale, area)</b> _____			
<b>PREPARATORY/PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST			9000

LARRY SOSTAD  
818-470 Granville Street  
Vancouver BC  
V6C 1V5  
Tel: 778-388-1315

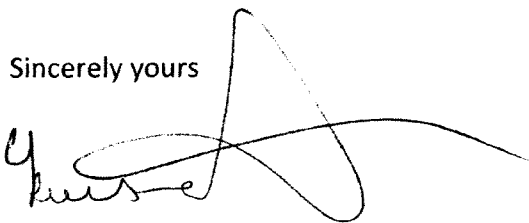
November 30 2010

Mineral Titles Branch  
Ministry of Energy Mines and Petroleum Resources  
300-865 Hornby Street  
Vancouver BC  
V6Z 2G3

Dear Sir / Madam

I am the owner of the RATS claim, Similkameen Mining Division, tenure number 530877. I have optioned the claim to Blue River Resources Ltd. and hereby authorize the assessment work conducted on the property and submitted and recorded by Blue River Resources Ltd. on August 10 2010, to be applied to tenure numbers, 616923, 616943, 616903 and 616883. These properties are contiguous to 530877.

Sincerely yours

A handwritten signature in black ink, appearing to read 'Larry Sostad', with a large, stylized flourish extending to the right.

Larry Sostad



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**Mineral Claim Exploration and Development Work/Expiry Date Change**

- Select Input Method
- Select/Input Tenures
- Input Lots
- Link Event Numbers
- Data Input Form
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**Mineral Claim Exploration and Development Work/Expiry Date Change**

Confirmation

Recorder: BLUE RIVER RESOURCES LTD (247632)      Submitter: BLUE RIVER RESOURCES LTD (247632)  
 Recorded: 2010/AUG/10      Effective: 2010/AUG/10  
 D/E Date: 2010/AUG/10

**Confirmation**

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

**Event Number:** 4783230  
**Work Type:** Technical Work  
**Technical Items:** Geophysical, Prospecting  
**Work Start Date:** 2010/MAY/01  
**Work Stop Date:** 2010/MAY/20  
**Total Value of Work:** \$ 9000.00  
**Mine Permit No:**

**Summary of the work value:**

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
616923	RATS 3	2009/aug/10	2010/aug/10	2011/aug/10	365	440.10	\$ 1760.41	\$ 176.04
616943	RATS 4	2009/aug/10	2010/aug/10	2011/aug/10	365	335.19	\$ 1340.75	\$ 134.07
616903	RATS 2	2009/aug/10	2010/aug/10	2011/aug/10	365	335.19	\$ 1340.75	\$ 134.07
616883	RATS 1	2009/aug/10	2010/aug/10	2011/aug/10	365	523.75	\$ 2094.99	\$ 209.50

**Financial Summary:**

Total applied work value: \$ 6536.90

PAC name: christopher delorme  
 Debited PAC amount: \$ 0.0  
 Credited PAC amount: \$ 2463.1

Total Submission Fees: \$ 653.69

Total Paid: \$ 653.69

Please print this page for your records.

The event was successfully saved.

Please use **Back** button to go back to event confirmation index.

530 877  
 L. Sostad.  
 660-2672

### Payment Receipt

Service Provided: Mineral Titles Br.

Date:	Aug 10, 2010	Transaction Type:	Purchase
Card Type:	MasterCard	Amount:	\$ 653.69
Card Number:	XXXXXXXXXXXXXXXXXX	Invoice Number:	110572090

**Note 1:** *The above card number is hidden for privacy.*

Approval Code:	556441	Response Message:	Approved
Host Date/Time:	Aug 10, 2010 / 01:24:14PM	Sequence Number:	000000000000
ISO Response Code:	00	Terminal ID:	Y20665182001
Response Code:	000		

**Note 2:** *"Mineral Tenure Operation" will appear on your credit card statement.*

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**GEOCHEMICAL  
and  
GEOPHYSICAL  
TECHNICAL ASSESSMENT REPORT**

**on the**

**CASTLE PROPERTY**

**SIMILKAMEEN MINING DIVISION**

**N.T.S.: 92H/9W**

**49° 33' 30" North Latitude and 120° 27' 27" West Longitude  
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**DATE STARTED: MAY 1, 2010**

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## **1.0 SUMMARY AND INTRODUCTION**

This report summarizes and presents the results of Blueriver Resources Ltd. (“Blueriver”) 2010 work program on the Castle Copper Project Mineral Claim Group located approximately 15 kilometres north of Princeton, British Columbia, Similkameen Mining Division. The Castle Mineral Claim group is comprised of a five (5) MTO mineral cell claims which total 1,969.53 hectares in area. The Castle Mineral Tenures are owned 100% by Blueriver Resources Ltd.

During the period of May 1 – 20, 2010, Blueriver geological personnel visited the property and conducted detailed geochemical and geophysical surveys. The 2010 program was designed test, in detail, a previously untested (via combined geochemistry and geophysics) portion of the mineral claim group and assess the mineralization potential (Copper Mountain Style copper porphyry mineralization) of the area. The Castle Property was accessed by 4x4 vehicle and a traversed on foot for the duration of the survey programs. In total, 129 soil samples were collected and subsequently assayed by Eco-Tech Analytical Laboratories of Kamloops, B.C. In general, the results of the soil sampling program were un-anomalous in copper gold an molybdenum, however one soil sample collected returned 1,352ppm Cu. Additionally, 150 Magnetometer readings were collected which generally returned low, uninteresting responses.

The Castle Property represents an under-explored base/precious metal exploration property which requires additional exploration work to more adequately define the known mineralization on the Property. The 2010 exploration program was limited in areal extent, and further work on the Property as whole is warranted.

## **2.0 LOCATION, TOPOGRAPHY, CLIMATE AND ACCESS**

The Castle Mineral Claim is located on N.T.S. map sheets 92/H (1:250,000 Scale), 92H/9W (1:50,000 Scale) and 092H056 and 082F058 (1:20,000 Scale) at approximately 49° 33' 30" North Latitude and 120° 27' 27" West Longitude in the Christian Creek watershed to the north of Jura, B.C., approximately 15 kilometers North of Princeton, B.C. (Figures 2-1 and 2-2). The Castle Mineral Claims (5 MTO cell claims) occupies an area of 1,969.53 hectares of Crown Land. The Property is defined dry interior zone rounded mountains within forested valleys of Douglas Fir, ponderosa and lodgepole pines, with stands of aspen lying within moister (low elevation) areas.

The Interior "Dry Zone" is defined by moderate precipitation of approximately 40 centimetres of which 25% to 30% may occur as snow equivalent rainfall between 25 and 30 centimetre (cm) per year. The Property is best worked from the months of May through November, however generally low levels of snowfall normally allow for year round exploration. Temperatures during the summer months can reach a high of 35°C and average 20°C with the winter temperatures reaching lows of <-20 °C with averages in the low single digits.

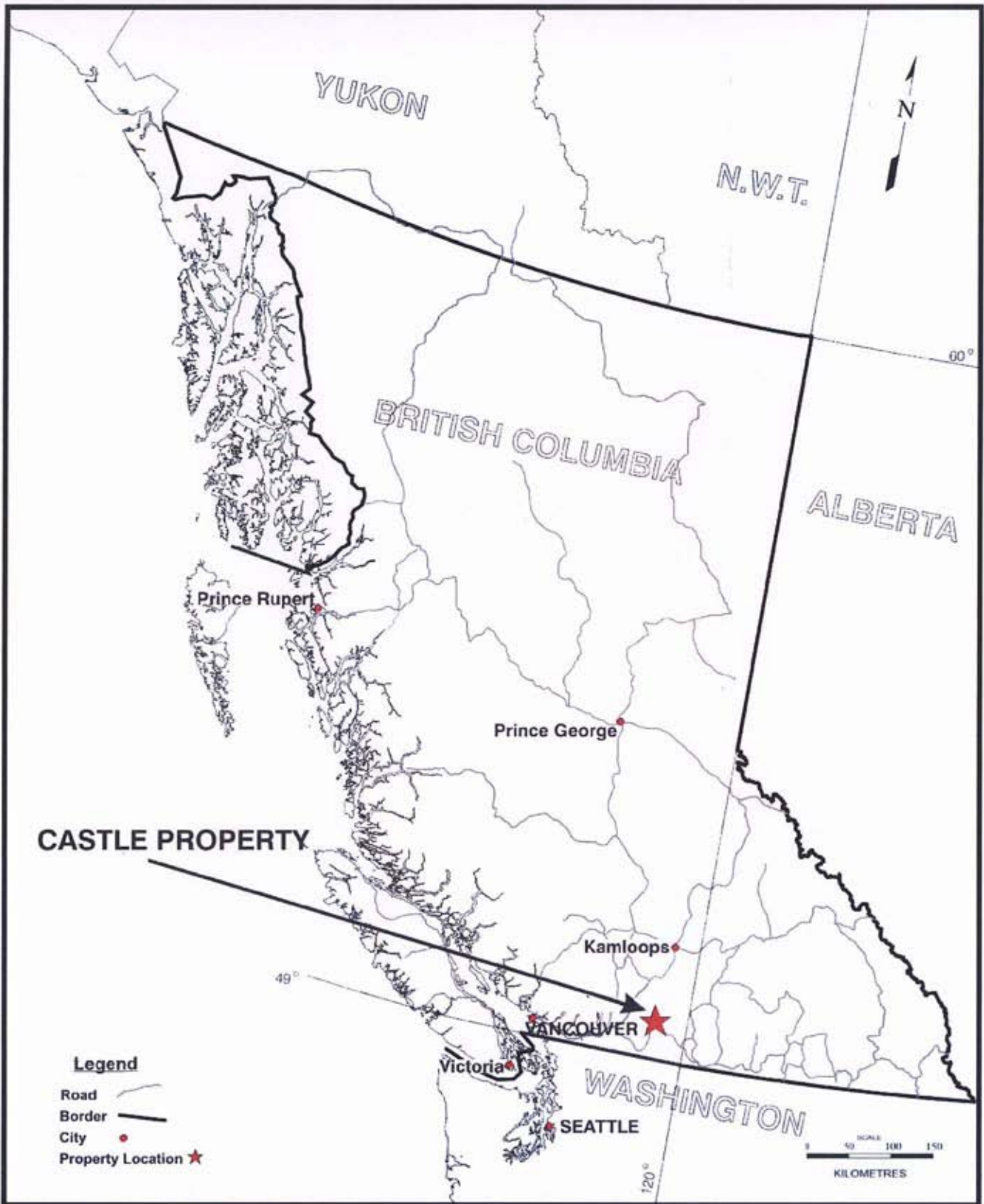
The Property is located within the Thompson Plateau and lies within the gently sloping to rounded hills (1,250 metres to 945 metres). The Property is dominated by grassy ranchland in the lower elevations to pine and aspen forests with scattered grassy patches in the higher elevations.

The town of Princeton (population ~3,000), located 15 km to the south has a diversified ranch, forestry and tourism focused economy with a backbone of mining mentality (Similco Mines was the largest employer in the area historically). Princeton can supply all general services and personnel and the large port city of Vancouver is three hours distant by Highway connections.

Adequate water sources for all phases of the exploration exist from the lakes and drainages within the Property boundaries. Christian Creek is a year round running

drainage, and the largest drainage in the district is the easterly flowing Similkameen River, 15 km south of the Property.

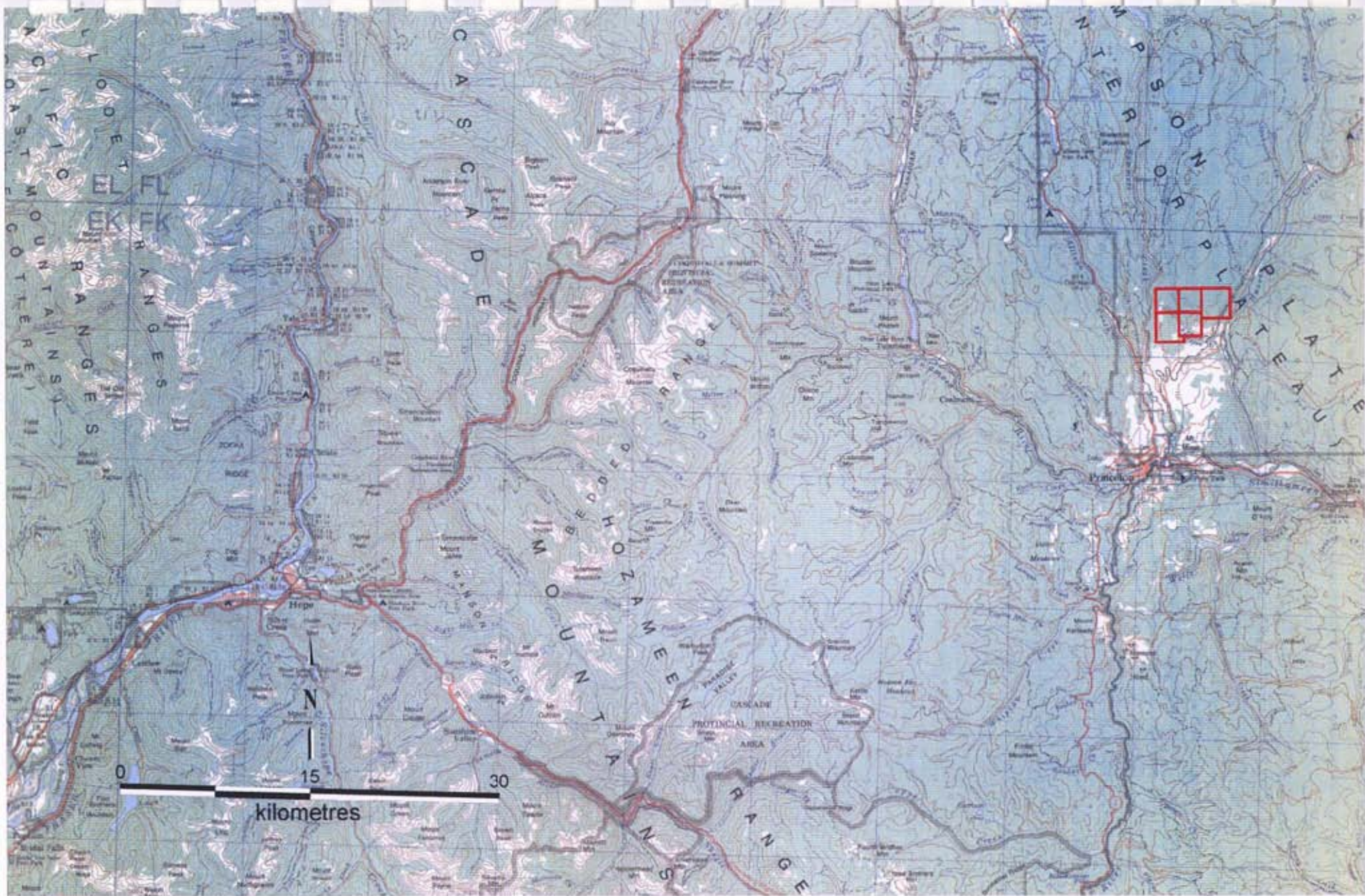
Three-phase power is from the Provincial grid is available approximately 5 km from the Property. Surface rights are currently owned by the Province (Crown land) and a local rancher.




**Blueriver Resources Ltd.**  
**Castle Project Assessment Report 2010**

TITLE  
**Castle Project - Property Location**

	FILENAME: CSBCLOC.CDR	PROJECT NUMBER 10-108	DRAWING NUMBER 2-1	
--	--------------------------	--------------------------	-----------------------	--



-  CASTLE Mineral Claims
-  Roads
-  Lakes
-  Rivers

**Blueriver Resources Ltd.**  
**CastleProject Technical Report 2010**

TITLE  
 Castle Project  
 Property Location, Princeton Area

FILENAME:  
 CSBCLOC2.CDR

PROJECT NUMBER  
 10-108

DRAWING NUMBER  
 2-2

### **3.0 CLAIM STATUS**

The mineral claims comprising the Castle Copper Property are owned 100% by Blue River Resources Ltd.

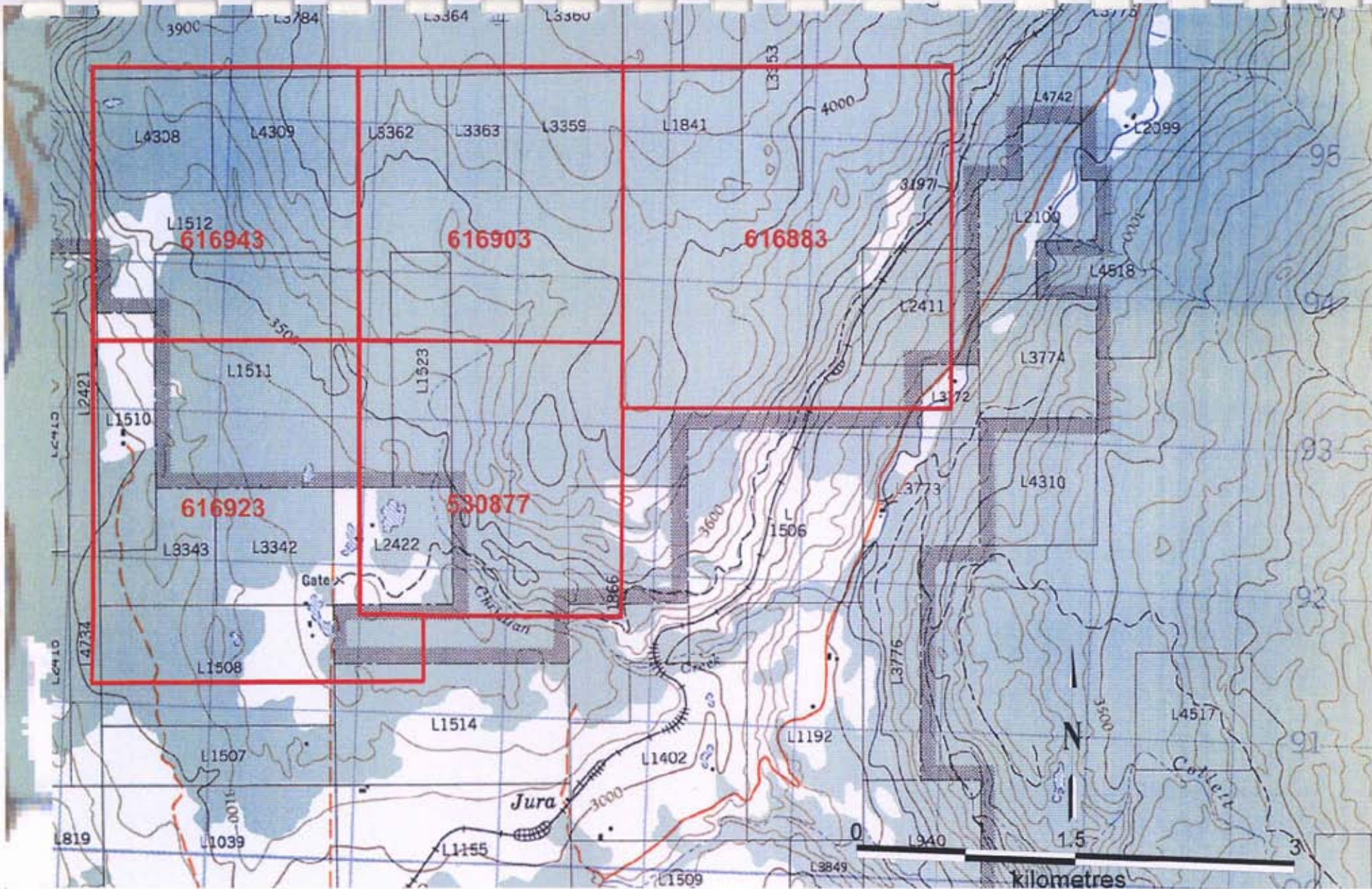
The Castle Mineral Claim Group consists of five (5) MTO Mineral Tenures (#616923, 616943, 616903, 616883, and 530877), which in total, cover 1,969.53 hectares. Table 3-1 presents a detailed description of the Castle Mineral Claim Group and Figure 3-1 a 1:50,000 scale topographic map of the mineral claim group.

**Table 3-1: Castle Property Mineral Claims Tenure Status**

<b>Claim Name</b>	<b>Tenure #</b>	<b>Size Ha</b>	<b>Stake Date</b>	<b>Good Till Date*</b>
RATS 3	616923	440.10	2009/AUG/10	2011/AUG/10
RATS 4	616943	335.19	2009/AUG/10	2011/AUG/10
RATS 2	616903	335.19	2009/AUG/10	2011/AUG/10
RATS 1	616883	523.75	2009/AUG/10	2011/AUG/10
RATS	530877	335.30	2206/mar/30	2011/MAY/30
	<b>TOTAL</b>	<b>1,969.53</b>		

\*The expiry date is based on the acceptance of this report for assessment work credits.





7

- Castle Claims and Tenure Numbers
- Roads
- Lakes
- Rivers

<b>Blueriver Resources Ltd.</b>		TITLE	
<b>Castle Project Assessment Report 2010</b>		Castle Project Mineral Claim Location, Princeton District	
	FILENAME:	PROJECT NUMBER	DRAWING NUMBER
	CSMTLOC.CDR	10-108	3-1

#### **4.0 HISTORY**

The Castle Property and immediate area has seen direct modern mineral exploration work since the 1950's, the RATS copper showing (MINFILE 092HNE176) represents the most advanced showing on the Property. Several prospecting and mineral exploration work programs have been mounted on the Property over the last 50 years.

In 1959, the first modern, systematic, reported exploration work was conducted on the Property by Kennco Explorations Limited completed geological, geochemical, geophysical surveys, diamond drilling (east of the Property) and bulldozer trenching on the F. H. Claims (covering ground currently represented by the Castle Property). The geophysical aspect of the program included an airborne magnetometer survey which covered a portion of the Property and identified an area of prominent high magnetic response in the area now covered by the Property.

**Table 4-1: Summary of Germane Assessment Reports for the Castle Property and immediate area**

<b>Report Number</b>	<b>Year</b>	<b>Company</b>	<b>Work Completed</b>
7795	1979	Canadian Occidental Petroleum	Geology and soil survey for Uranium
16135	1986	Count Fleet Exploration	Geology, Trenching and soil survey.
19165	1989	Christoffersen	Mapping and soil survey.
20113	1990	Cominco	IP, Magnetometer
30097	2008	L. Sostad	Geology and Mobile Metal Ion Survey (MMI)

The most substantive exploration work carried out on the Property to date was conducted by Count Fleet Exploration Ltd. and Co-Pex Mining Corporation. Count Fleet completed geological mapping and geochemical sampling over an area of extensive trenching (Trench Zone) on the northern part of the Property. Co-Pex Mining Corporation is reported to have carried out trenching and over 2,400 metres of percussion drilling in 28 holes and 430 metres of diamond drilling in 3 holes on the ELK and SLEEPER group of

claims, now covered in by the Castle Property. **No public records of these activities nor results of the drilling programs are currently available (MINFILE 092HNE176).**

More recently, Blueriver has carried out a systematic exploration program over the main MINFILE defined area of reported mineralization in an effort to verify and validate the historically reported mineral exploration programs carried out on the Property. The exploration programs (summarized in Table 4-2) have confirmed the existence of the mineral occurrence documented on the Property and has identified drill targets for the next phase of Property Assessment. The following section expands on the results from these 2008-2009 programs.

**Table 4-2: Summary of Blueriver Resources Ltd. Castle Project Exploration Programs**

<b>Work</b>	<b>Year</b>
Road Access and Trench work	2008 - 2009
Grid Line cutting	2008 - 2009
Magnetometer Surveys	2008 - 2009
EM-VLF Survey	2008 - 2009
Geochem Soil Survey	2008 - 2009
Trench sampling	2008 - 2009
Road Rehabilitation/Slashing	2008 - 2009
Assaying	2008 - 2009
Geochem/Geophysical Report	2008 - 2009

2008-2009 Trenching

Blueriver re-established 12 short trenches/road cuts which were reportedly on the RATS showing (within Tenure 530877). 26 samples were selected and analyzed returning results from trace to 10.4% Cu. The trenches exposed copper sulphide and copper oxide mineralization present as dissemination and on fractures in basaltic rocks of the Nicola volcanic Group (Aresenau, 2009).

### 2008 -2009 Soil Survey

A 550m by 200m (60 m spaced lines: samples on 25 m centres) B-horizon Soil sampling program covering the area immediate to the “Trenched Zone” was completed with a total of 542 samples collected. The survey identified elevated copper values in and around the trenched area. Of the 542 samples collected, 75 samples were greater than 200 PPM Cu, 35 samples returned values greater than 500 PPM and 24 soil samples returned values greater than 1,000 PPM Cu (Aresenau, 2009).

### 2008 -2009 VLF-EM Survey

In the summer of 2008, a VLF-EM survey was conducted over a 960m by 900m, area covering most of Claim 530877. The results of the VLF-EM survey indicated localized northerly, northwesterly, and northeasterly structures which may be related to the structures responsible for the copper mineralization found in the trenched area (Aresenau, 2009).

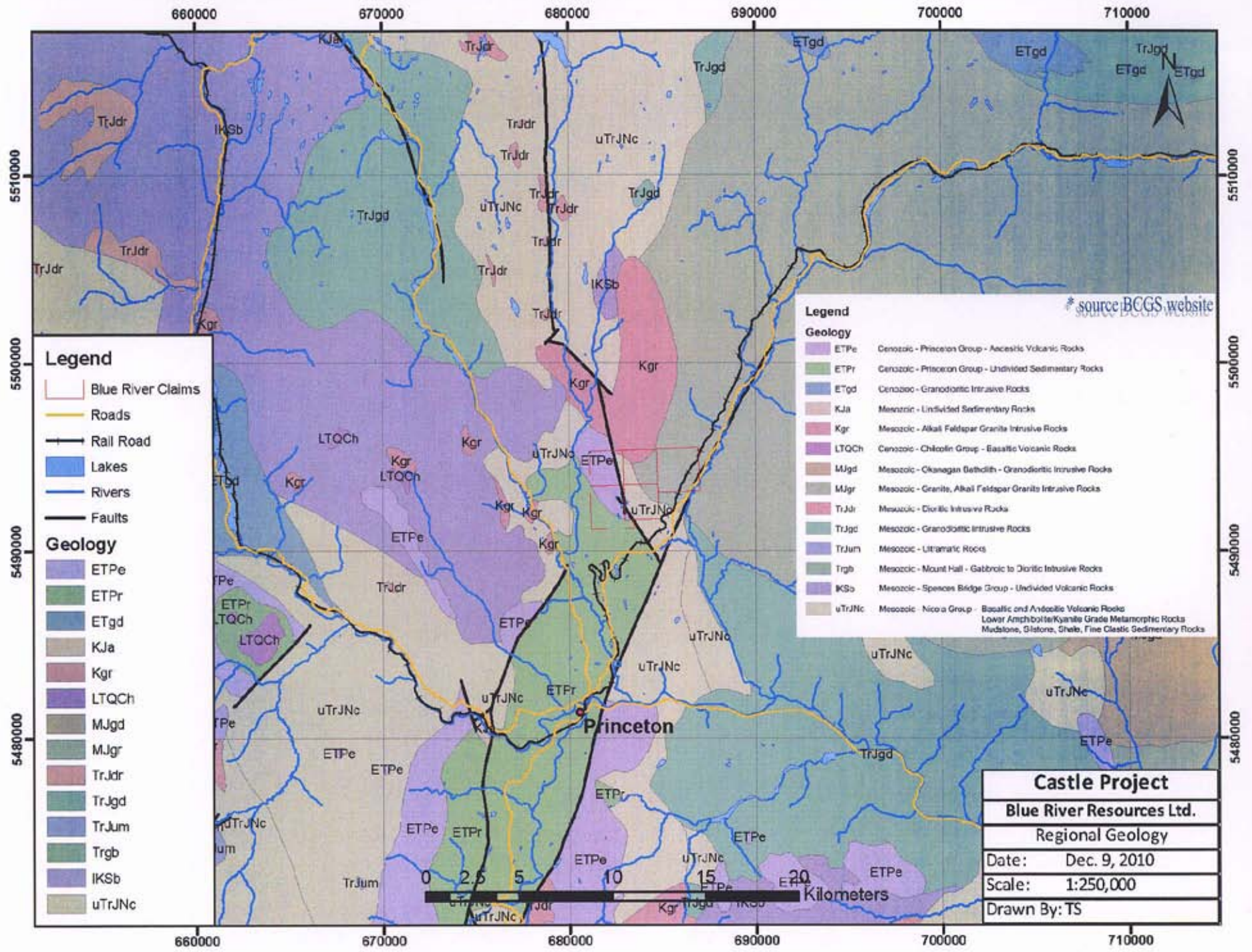
## 5.0 REGIONAL GEOLOGY

The Castle Property lies within the northerly trending Mesozoic tectono-stratigraphic Quesnellia Terrane. This large accreted terrain is composed of a volcanic arc sequence with overlying sedimentary units, all of which were subsequently formed on a deformed oceanic sedimentary-volcanic complex (Harper Ranch and Okanogan sub-terrane) (Monger et al., 1992). The subaqueous island-arc assemblage Late Triassic Nicola Group is composed of volcanic and lesser sedimentary rocks forms the core of the Quesnellia Terrane. The Nicola Group volcanic were subsequently intruded by early Jurassic alkalic, calc-alkalic and zoned mafic (Alaska-type) plutons and batholiths (Preto, 1972; 1979). Figure 5-1.

The Nicola Group lithologies are reported to have a stratigraphic thicknesses of ~7.5 km and constitute a 25 km wide band that extends from the Canada-U.S. border north to beyond Kamloops Lake (Aresenau, 2009). The Nicola Group can be broadly divided into four lithological assemblages, in an east-west progression, each of which are bounded by multiple sub-parallel fault systems (Monger, 1989).

The Copper Mountain alkalic porphyry copper-gold camp occurs in the Eastern volcanic assemblage of the Nicola Group (Monger, 1989), which is associated with the Castle Property. The volcanics are intruded by a suite of early Jurassic dykes, sills, and plutons of the Copper Mountain suite (Woodsworth et al., 1992), but other than local contact effects and alteration associated with mineralization, the stratified rocks are relatively fresh having undergone only lower greenschist metamorphism (Aresenau, 2009).

The Copper Mountain stock, a major component of the Copper Mountain suite, is a 17 km<sup>2</sup>, annularly shaped intrusive unit. The stock is differentiated on a concentric basis, diorite at its outer edge grading through monzonite, syenite and perthosite pegmatite at the core. (Aresenau, 2009).

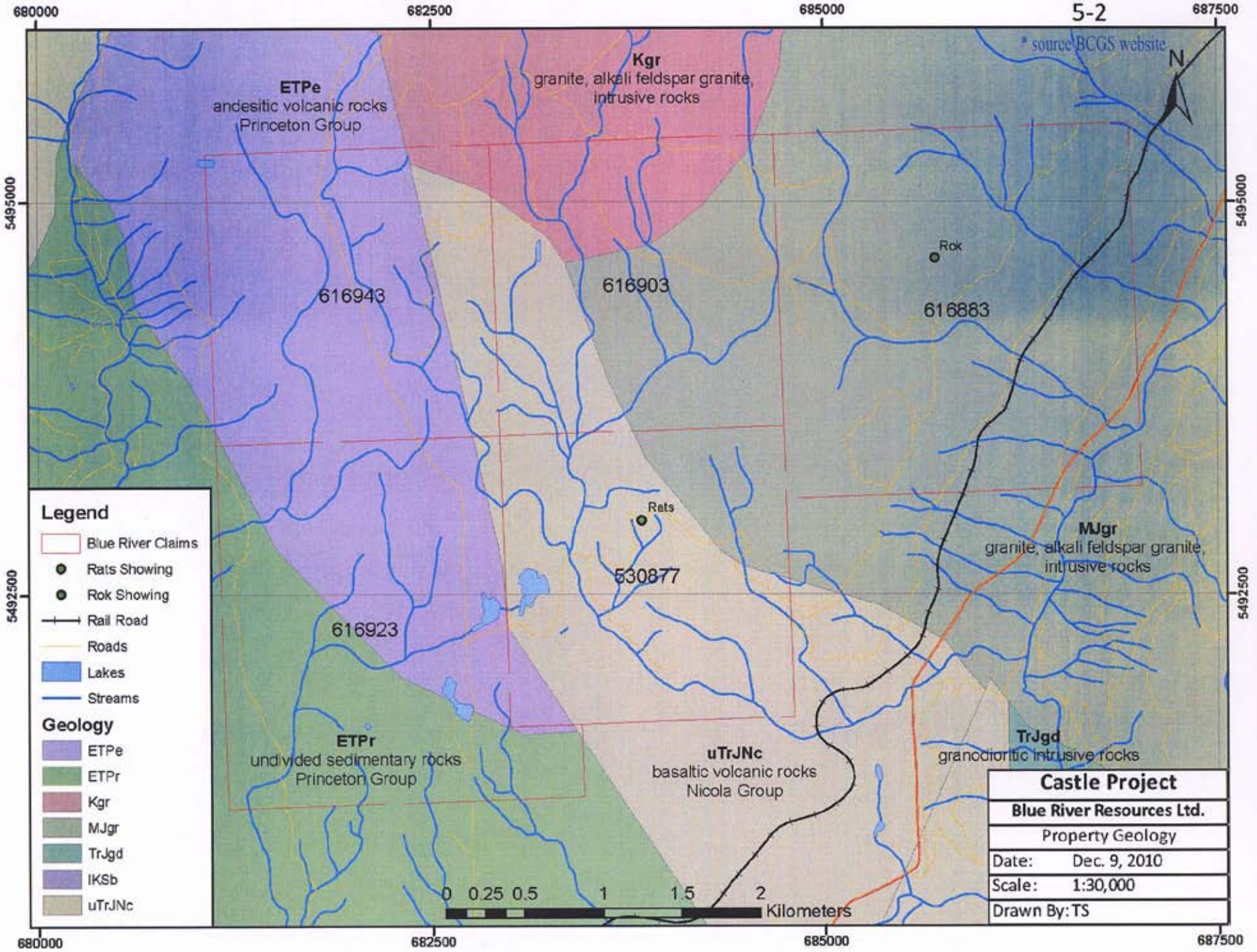


**Castle Project**  
**Blue River Resources Ltd.**  
 Regional Geology  
 Date: Dec. 9, 2010  
 Scale: 1:250,000  
 Drawn By: TS

## **6.0 PROPERTY GEOLOGY**

The Castle property is underlain predominantly by basaltic to andesitic flows of the Upper Triassic Nicola Group (Figure 5-2). The Nicola volcanic rocks strike northwesterly and are in contact with a Middle Jurassic-age granodiorite Osprey Lake Batholith in the north-central portion of the property. The Eocene Princeton Group volcano-sedimentary lithological package dominates the western portions of the Property.

The lithologies of the Nicola Group occurring on the Property represent plagioclase to olivine porphyritic basaltic flows and altered andesitic flows. Epidote and chlorite are abundant as fracture fillings/coatings which are common on the Property as several directions of shears and fractures are seen throughout the available exposures. Outcrop on the Property is sparse, with the most consistent exposures on topographic ridges and on the north side of the Christian Creek drainage.



680000

682500

685000

5-2

687500

5495000

5495000

5492500

5492500

680000

682500

685000

687500

**ETPe**  
andesitic volcanic rocks  
Princeton Group

**Kgr**  
granite, alkali feldspar granite,  
intrusive rocks

\* source BCGS website

616943

616903

Rok

616883

Rats

530877

**MJgr**  
granite, alkali feldspar granite,  
intrusive rocks

616923

**ETPr**  
undivided sedimentary rocks  
Princeton Group

**uTrJNc**  
basaltic volcanic rocks  
Nicola Group

**TrJgd**  
granodioritic intrusive rocks

0 0.25 0.5 1 1.5 2 Kilometers



## **7.0 MINERALIZATION**

The mineralization noted on the Property (from re-opened trenches on the RATS showing) consists primarily of malachite, chalcopyrite, pyrite and magnetite, with minor bornite (+/- chalcocite?). This mineralized zone is restricted to a 150m wide zone trending west-northwest for 500m and has been interpreted as defined by two parallel zones of mineralization (shear?). The southern zone is 450m long and 50m wide and contains copper oxide mineralization (disseminations, stringers and fracture fillings/coatings). Chalcopyrite and malachite has been reported to form up to 10 percent of the rock by volume in hand-size samples (Aresenau, 2009). The northern zone is 500m long and 100m wide, and generally contains <1% chalcopyrite and malachite (as disseminations). The mineralization broadly parallels the folding of the basalts (Aresenau, 2009).

The Property is currently being evaluated for Copper Mountain style Copper Porphyry potential. The Copper Mountain deposits are classified as calc-alkalic to alkali porphyry copper mineral deposits with associated gold and silver mineralization. The alkalic mineral deposits typically occur in zones of intense faulting, fracturing, brecciation, and related hydrothermal alteration. Contemporaneously formed hypogene sulphide minerals (pyrite, chalcopyrite, bornite, chalcocite and pyrrhotite) are common mineralization. Molybdenite may also be present however gold and silver are the more common economically significant minerals.

Calc-alkalic porphyrys are typified by annular to cylindrical, stock-like intrusive bodies (potentially kms in diameter) and containing an outer shell of medium to coarse-grained equigranular rock with a porphyritic core of similar composition. Quartz monzonites to granodiorites are the common lithological hosts for porphyry deposits.

Brecciated zones are typically economically important to porphyry systems, with higher grade (1-5% Cu) associations possible.

## **8.0 2010 WORK PROGRAM SUMMARY**

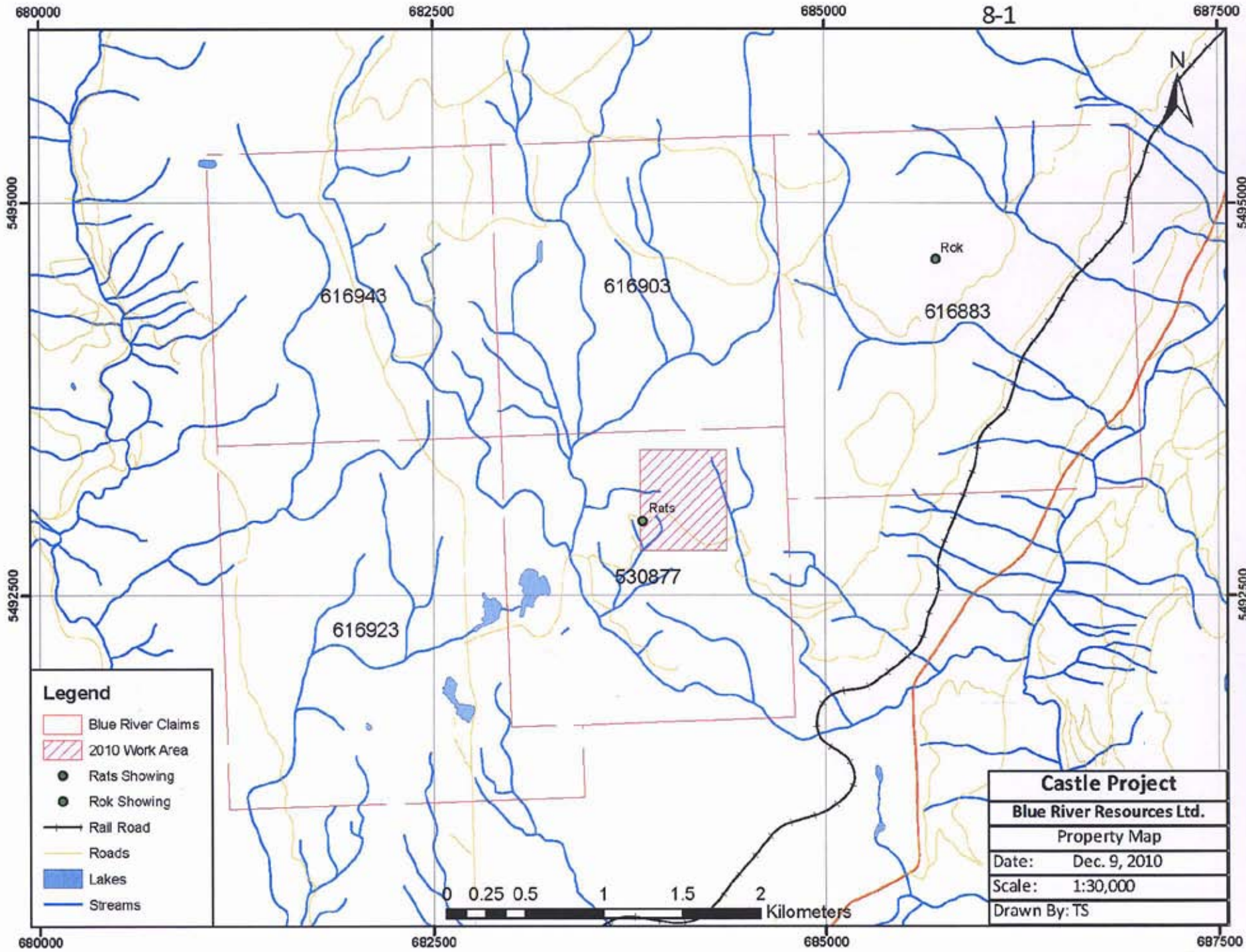
Blueriver Resources Ltd. conducted a geochemical and geophysical mineral exploration program on the Castle Copper Property from May 1 – May 20, 2010. The program was designed to conduct a detailed soil geochemical and geophysical (magnetometer) survey over a previously untested (via combined geochemical/geophysical surveys) portion of the Castle Claim Group. Figure 8-1 highlights the location of work relative to the claim group boundaries.

### **Soil Sampling**

A GPS Controlled survey grid was established with six(6) North-South lines of 600 metres each separated by 100 metres East-West with stations set every 25 metres. In total, 129 soil samples (B-Horizon samples) were collected from this grid and subsequently assayed by ICP methods at Eco-Tech Laboratory of Kamloops, B.C. Eco-Tech analyzed all samples by 28-element ICP-AES MS where a 0.2 gram sample is digested with HNO<sub>3</sub>/HClO<sub>4</sub>/HF/HCL and diluted to 25mL. In addition, all samples were analyzed by fire assay for gold – 30 gram FA. Results from the 2010 program are presented in their raw, un-interpreted form, in Appendix A, sample locations/descriptions are detailed in Appendix B. The Soil samples results returned values from trace to 0.135% Cu and from trace to 0.02 g/t Au, with an overall low geochemical response. All results from the survey are presented in Figures 8-3 and 8-4.

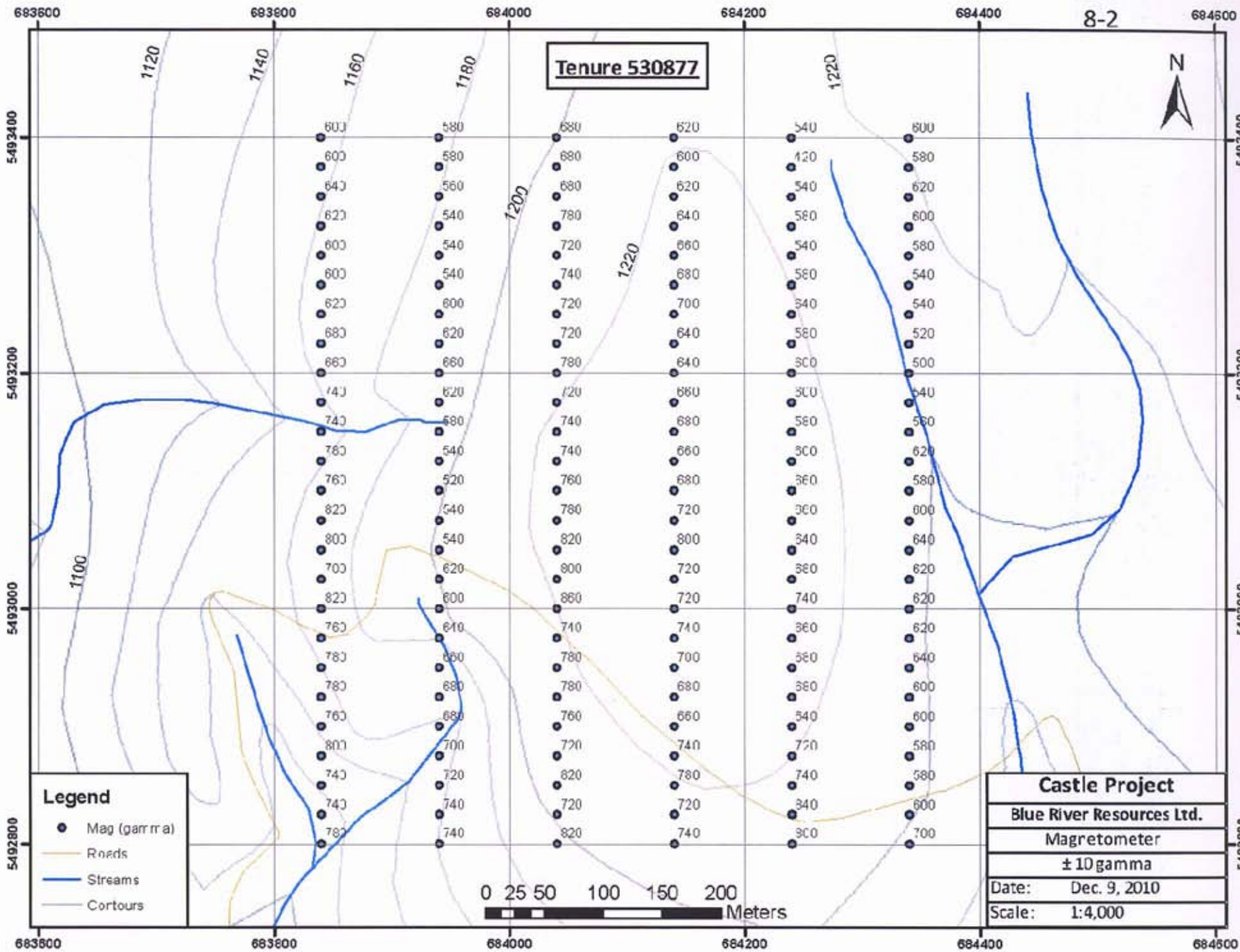
### **Magnetometer Survey**

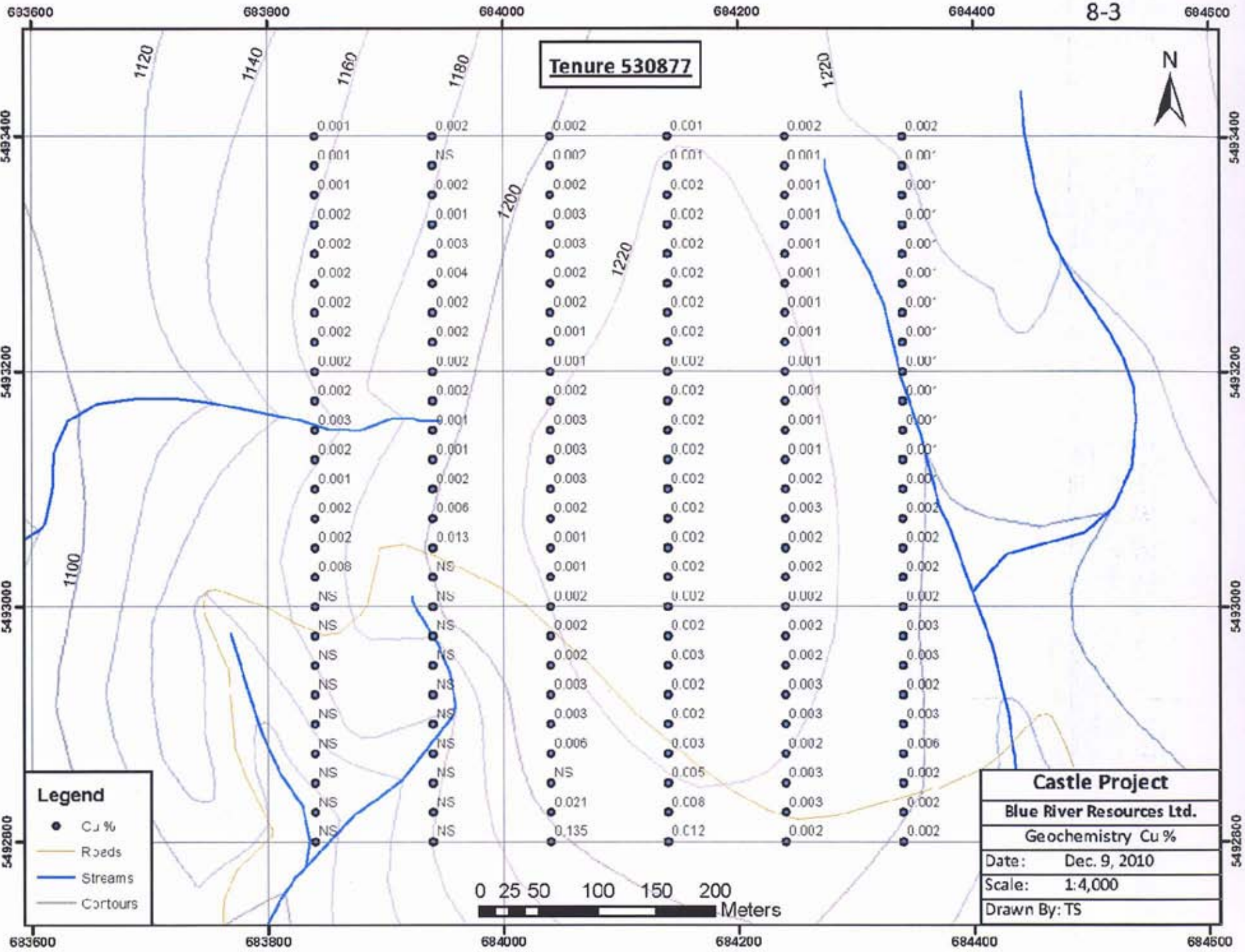
On the same grid as the soil samples were collected, 150 magnetometer readings were recorded were collected with a Scintrex Fluxgate Model #2 magnetometer. Readings were collected from each survey station with each station number noted and recorded on a notebook along with each station number. These results were subsequently plotted and analyzed for magnetic signatures potentially related to mineralization. In general, the gamma responses increase to the west and a subtle anomalous area central to the survey grid was noted. Results are presented in Figure 8-2.

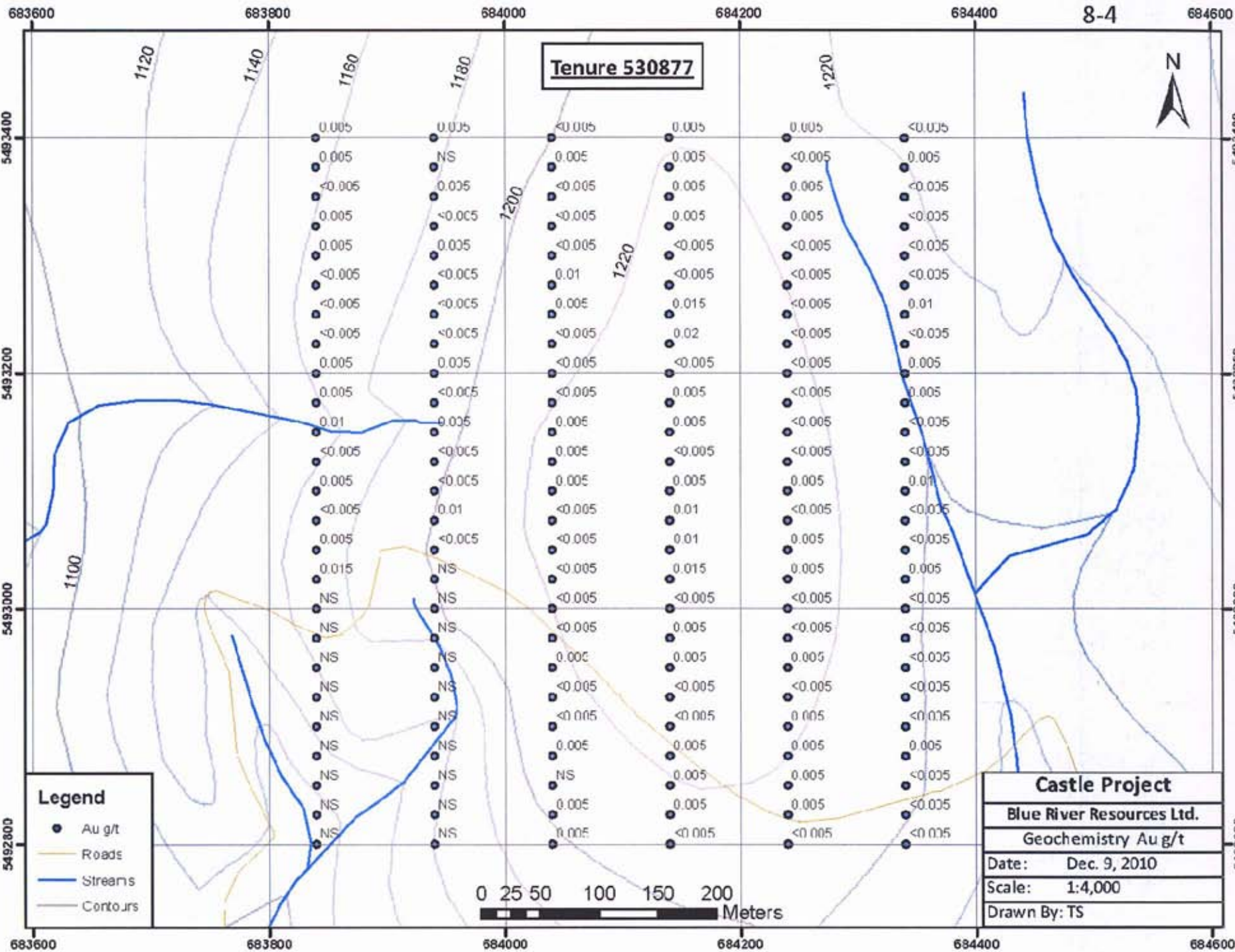


17

<b>Castle Project</b>	
<b>Blue River Resources Ltd.</b>	
Property Map	
Date:	Dec. 9, 2010
Scale:	1:30,000
Drawn By:	TS







## **9.0 DISCUSSION AND RECOMMENDATIONS**

The 2010 exploration program was successful in the collection of coincident geochemical (soil samples) and geophysical (magnetometer) data over an area on the Property never previously studied in such a capacity. The soil survey results returned from the 2010 geochemical study, in general, quite low and did not return any clearly defined anomalous zones in Copper, Molybdenum nor Gold geochemistry. It is possible that the geochemical signatures of the underlying lithologies may have been masked or alternatively that exploration initiatives should be focused elsewhere on the Property. The survey covered an area known to host anomalous Copper-in-trench results, and immediate to this area did return 0.135% Cu.

The magnetometer survey results were even more enigmatic than the soils. Broadly speaking, the survey returned no significant anomalous zones, but rather a general a modest increase in gamma counts to the west. This subtle differential is interpreted as a lithological constraint as the Nicola volcanic rocks on the Property are generally magnetic as they contain a small amount of disseminated magnetite.

The Castle Property is known to host copper mineralization within intermediate volcanic rocks of the Upper Triassic Nicola Group. The mineralization is similar in style, habit and lithology to other porphyry copper occurrences and deposits found in South-western British Columbia, in specific the Copper Mountain deposit. The Property represents an early stage exploration (undrilled – as the previous drilling records are not available) target with the potential to host copper porphyry style mineralization.

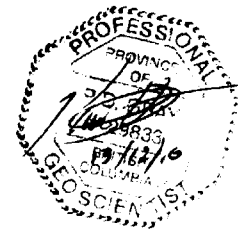
The author recommends that Blueriver conduct additional exploration to investigate the extent of the copper mineralization known to occur in the trenched area and to identify the regional setting and style of the copper mineralization. In specific, Blueriver should carry out an airborne magnetometer and electromagnetic surveys to establish the regional setting of the copper mineralization and any additional geophysical targets on the property. Ground-based Induced Polarization surveys should be conducted subsequent to

the airborne study, focused in the trench zone any additional targets delineated by the airborne study.

Dated: December 13, 2010



Paul D. Gray, P. Geo.





## **10.0 REFERENCES**

- Arseneau, G., 2009. Castle Copper Project, Princeton, British Columbia. SRK Report for Blueriver Resources Ltd.
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- Monger, J.W.H., (1989): *Geology of the Hope map sheet, British Columbia*, Geological Survey of Canada, Map 41-1989
- Monger, J.W.H., Wheeler, J.O., Tipper, H.W., Gabriels, H., Harms, T., Struick, L.C., Campbell, R.B., Dodds, C.J., Gehrels, G.E., and O'Brian, J. (1992): *Upper Devonian to Middle Jurassic Assemblages, Part B Cordilleran Terranes in The Geology of the Cordilleran Orogen in Canada* Ed. Gabrielse, H. And Yorath, C.J. Geological Survey of Canada, The Geology of Canada pp 281-328.
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## **11.0 STATEMENT OF QUALIFICATIONS**

I, Paul D. Gray, of 88 East 18<sup>th</sup> Avenue, Vancouver V5V 1C9, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. During the time of the work described in this report I was the Principal of Paul D. Gray Geological Consulting with its offices at 350-580 Hornby Street, Vancouver, B.C.
2. I am a graduate of Dalhousie University, Halifax, in the Province of Nova Scotia, with a Bachelor of Science degree (Honours) in Earth Sciences.
3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), License Number 29833.
4. I have practised my profession as an exploration geologist in the mineral exploration industry continuously since 1996. I have worked on base and precious metals exploration projects as a geologist in Canada, the United States, Asia, Central and South America
5. I am the author of this report as a contractor for Blueriver Resources Ltd. and the report summarizes the work conducted on the Castle Copper Property as reported to me by Blueriver Resources Ltd.

DATED at Vancouver, British Columbia this 13<sup>th</sup> day of December, 2010.

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Paul D. Gray, P.Ge

## 11.0 STATEMENT OF QUALIFICATIONS

I, Paul D. Gray, of 88 East 18<sup>th</sup> Avenue, Vancouver V5V 1C9, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. During the time of the work described in this report I was the Principal of Paul D. Gray Geological Consulting with its offices at 350-580 Hornby Street, Vancouver, B.C.
2. I am a graduate of Dalhousie University, Halifax, in the Province of Nova Scotia, with a Bachelor of Science degree (Honours) in Earth Sciences.
3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), License Number 29833.
4. I have practised my profession as an exploration geologist in the mineral exploration industry continuously since 1996. I have worked on base and precious metals exploration projects as a geologist in Canada, the United States, Asia, Central and South America
5. I am the author of this report as a contractor for Blueriver Resources Ltd. and the report summarizes the work conducted on the Castle Copper Property as reported to me by Blueriver Resources Ltd.

DATED at Vancouver, British Columbia this 13<sup>th</sup> day of December, 2010.



Paul D. Gray, P. Geo

## 12.0 STATEMENT OF EXPENDITURES

### Castle Copper Project Expenses Statement – 2010

May 1 – 20, 2010 – Geochemical and Geophysical Program

C. Delhorme	Labour 5 days @ 200.00 / Day	\$1,000.00
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G. Delhorme	Labour 5 days @ \$200.00 / Day	\$1,000.00
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Sub-Total = **\$2,000.00**

#### Program Expenses:

4x4 Rental	10 Days@ \$75.00/day	\$750.00
Meals	10 Days @ \$35/day	\$350.00
Hotel	10 Days @ \$100/day	\$1,000.00
GPS Rental	10 Days @ \$20/day	\$200.00
Fluxgate Rental	10 Days @ \$50/day	\$500.00
Fuel		\$225.00

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Sub-Total = **\$3,025.00**

#### Post-Program Expenses:

Report writing	2days @ \$400/day	\$800.00
Assays 129 Samples @ \$24.7/Sample (Au + 32 Element ICP)		\$3,186.30

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Sub-Total = **\$3,986.30**

**Total = \$9,011.30**

Dated: December 13, 2010

Paul D. Gray, P.Geo.

## **APPENDIX A**

## **APPENDIX B**

## **APPENDIX A**

Eco Tech Laboratory Ltd.  
 2953 Shuswap Road  
 Kamloops, BC  
 V2H 1S9 Canada  
 Tel + 1 250 573 5700  
 Fax + 1 250 573 4557  
 Toll Free + 1 877 573 5755  
 www.stewartgroupglobal.com



**StewartGroup**  
 Geochemical & Assay

**Chris Delorme**

20-Sep-10

## 2010 INVOICE

DESCRIPTION	PRICE / SAMPLE	AMOUNT
<i>Project: Rat</i>		
129 Sample Prep. (Soil)	2.75	354.75
129 Multi-Element ICP (28)	8.00	1032.00
129 Au Geochem (30g)	13.95	1799.55
	<b>SUBTOTAL:</b>	<b>3186.30</b>
	<b>&amp; 12% H.S.T:</b>	<b>382.36</b>
	<b>TOTAL DUE &amp; PAYABLE UPON RECEIPT:</b>	<b><u>3568.66</u></b>

**THANK YOU!!**

**G.S.T. REGISTRATION NUMBER R88399 8312**

**TERMS: NET 30 DAYS, INTEREST AT RATE OF 2 PER MONTH (24% PER ANNUM)  
 WILL BE CHARGED ON OVERDUE ACCOUNTS.**

**PAID**



Phone: 250-573-5700  
 Fax : 250-573-4557

No. of samples received: 129  
 Sample Type: Soil  
 Project: RAT  
 Submitted by: Chris Delorme

Values in ppm unless otherwise reported

Et #.	Tag#	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zn
1	RATS 0+00N	2.7	1.78	15	146	<1	<5	0.88	7	18	12	1352	3.60	<5	0.17	8	18	0.98	3720	8	0.02	12	1510	36	0.04	<5	2	<10	<5	40	0.02	<5	102	<5	7	754
2	RATS 0+25N	0.5	1.68	5	160	<1	<5	0.62	<1	11	16	206	2.62	<5	0.29	6	14	0.46	1210	4	0.03	13	1390	21	0.02	>5	2	<10	<5	38	0.05	<5	70	<5	4	171
3	RATS 0+75N	0.3	1.28	5	260	<1	<5	0.50	2	7	10	55	2.23	<5	0.17	6	8	0.23	740	3	0.03	7	830	21	0.04	>5	1	<10	<5	32	0.03	<5	58	<5	4	161
4	RATS 1+00N	0.4	1.14	5	304	<1	<5	0.39	3	7	20	28	2.08	<5	0.10	8	8	0.29	640	5	0.03	10	720	24	0.04	<5	<1	<10	<5	32	0.04	<5	40	<5	4	261
5	RATS 1+25N	0.2	1.85	<5	244	<1	<5	0.53	<1	7	8	28	2.00	<5	0.18	6	12	0.28	810	3	0.03	8	610	15	0.02	<5	1	<10	<5	26	0.04	<5	50	>5	3	81
6	RATS 1+50N	0.3	1.34	5	166	<1	<5	0.38	<1	6	10	22	2.44	<5	0.13	6	10	0.23	470	3	0.02	5	400	21	0.02	<5	1	<10	<5	22	0.04	<5	68	>5	3	134
7	RATS 1+75N	<0.2	1.42	<5	178	<1	<5	0.35	<1	8	10	16	2.10	<5	0.15	4	10	0.22	880	2	0.03	5	350	12	<0.01	<5	2	<10	<5	24	0.05	<5	58	<5	3	81
8	RATS 2+00N	<0.2	1.35	<5	138	<1	<5	0.32	<1	7	10	18	2.36	<5	0.10	4	8	0.21	450	2	0.03	5	370	12	<0.01	>5	2	<10	<5	26	0.06	>5	68	<5	3	81
9	RATS 2+25N	<0.2	1.84	<5	164	<1	<5	0.28	<1	6	8	14	1.89	<5	0.08	4	10	0.20	660	2	0.03	6	1050	9	<0.01	<5	1	<10	<5	24	0.05	>5	52	<5	2	81
10	RATS 2+50N	<0.2	1.71	<5	214	<1	<5	0.32	<1	6	8	14	2.05	<5	0.13	4	10	0.22	720	2	0.03	6	650	12	<0.01	<5	2	<10	<5	28	0.06	>5	52	<5	2	71
11	RATS 2+75N	<0.2	1.70	>5	170	<1	<5	0.42	<1	8	12	22	2.59	<5	0.18	4	10	0.34	540	1	0.02	7	620	12	<0.01	<5	3	<10	<5	28	0.08	>5	70	<5	3	81
12	RATS 3+00N	<0.2	1.40	5	166	<1	<5	0.34	<1	11	12	34	3.13	<5	0.12	8	10	0.42	610	3	0.02	8	320	18	<0.01	<5	3	<10	<5	20	0.03	<5	76	<5	4	81
13	RATS 3+25N	<0.2	1.27	5	184	<1	<5	0.36	<1	8	10	28	2.83	<5	0.18	8	10	0.34	530	3	0.02	7	480	33	0.02	<5	3	<10	<5	22	0.05	<5	70	<5	6	81
14	RATS 3+50N	<0.2	1.40	<5	170	<1	<5	0.43	<1	8	12	26	2.57	<5	0.13	6	10	0.35	530	2	0.02	7	470	21	0.02	<5	2	<10	<5	28	0.05	>5	74	<5	3	81
15	RATS 3+75N	<0.2	1.46	<5	178	<1	<5	0.32	<1	7	10	18	2.22	<5	0.11	6	8	0.25	490	1	0.03	6	1100	12	<0.01	<5	2	<10	<5	24	0.05	>5	62	<5	3	81
16	RATS 4+00N	<0.2	1.25	<5	146	<1	<5	0.32	<1	7	10	14	2.09	<5	0.06	4	8	0.23	490	1	0.02	6	570	9	<0.01	<5	1	<10	<5	22	0.04	>5	60	<5	2	41
17	RATS 4+25N	<0.2	1.38	<5	168	<1	<5	0.38	<1	6	10	14	2.18	<5	0.07	4	10	0.23	590	2	0.03	6	730	12	<0.01	<5	1	<10	<5	24	0.05	<5	80	<5	2	51
18	RATS 4+50N	<0.2	1.66	<5	144	<1	<5	0.30	<1	7	10	20	2.48	<5	0.07	6	10	0.28	360	2	0.03	7	690	12	<0.01	<5	2	<10	<5	24	0.08	<5	68	<5	3	61
19	RATS 4+75N	<0.2	1.75	5	162	<1	<5	0.35	<1	8	10	24	2.44	<5	0.08	6	10	0.29	570	2	0.03	7	990	15	0.01	<5	2	<10	<5	28	0.05	<5	68	<5	3	61
20	RATS 5+00N	<0.2	1.59	5	228	<1	<5	0.43	<1	8	10	26	2.30	<5	0.12	6	10	0.30	770	2	0.02	7	1030	27	0.01	<5	2	<10	<5	38	0.04	>5	60	<5	3	61
21	RATS 5+25N	<0.2	1.83	10	180	<1	<5	0.41	<1	9	10	28	2.64	<5	0.08	6	12	0.39	860	2	0.03	8	970	36	<0.01	<5	2	<10	<5	28	0.05	<5	70	<5	3	81
22	RATS 5+50N	<0.2	1.73	5	186	<1	<5	0.36	<1	9	10	22	2.65	<5	0.12	4	14	0.31	700	2	0.03	7	580	21	0.01	<5	2	<10	<5	26	0.06	<5	68	<5	3	81
23	RATS 5+75N	<0.2	1.48	<5	128	<1	<5	0.43	<1	9	12	24	2.58	<5	0.11	6	12	0.40	420	2	0.03	9	480	18	<0.01	<5	2	<10	<5	26	0.08	<5	68	<5	4	81
24	RATS 6+00N	<0.2	1.15	<5	94	<1	<5	0.35	<1	7	12	20	2.40	<5	0.11	8	10	0.29	380	2	0.02	7	540	12	<0.01	<5	2	<10	<5	28	0.08	<5	64	<5	5	81
25	L100E 6+00N	<0.2	1.20	<5	168	<1	<5	0.29	<1	5	8	10	1.74	<5	0.13	6	10	0.17	530	1	0.02	7	1250	9	<0.01	<5	1	<10	<5	24	0.05	<5	42	<5	2	81
26	L100E 5+75N	<0.2	0.81	<5	66	<1	<5	0.32	<1	6	12	12	2.29	<5	0.12	8	6	0.23	310	1	0.02	6	740	9	<0.01	<5	2	<10	<5	24	0.05	<5	62	>5	4	81
27	L100E 5+50N	<0.2	0.89	<5	80	<1	<5	0.36	<1	6	10	16	2.23	<5	0.14	10	8	0.28	310	1	0.02	8	770	9	<0.01	<5	2	<10	<5	26	0.05	<5	58	<5	4	81
28	L100E 5+25N	<0.2	0.92	<5	130	<1	<5	0.25	<1	6	12	16	2.34	<5	0.08	8	6	0.23	355	2	0.02	7	840	12	<0.01	<5	2	<10	<5	24	0.08	<5	52	<5	3	81
29	L100E 5+00N	<0.2	1.19	<5	138	<1	<5	0.28	<1	6	10	18	2.03	<5	0.09	4	10	0.22	330	1	0.02	6	880	9	<0.01	<5	1	<10	<5	24	0.05	<5	52	<5	2	81
30	L100E 4+75N	<0.2	1.14	<5	132	<1	<5	0.37	<1	7	10	18	2.29	<5	0.10	8	8	0.25	430	2	0.02	7	830	12	<0.01	<5	2	<10	>5	28	0.05	<5	62	<5	3	81

Et #	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zn
31	L100E 4+50N	<0.2	1.73	<5	212	<1	<5	0.38	<1	8	10	22	2.39	<5	0.07	4	10	0.33	720	3	0.02	6	1060	15	<0.01	<5	2	<10	<5	30	0.06	<5	88	<5	3	7
32	L100E 4+25N	<0.2	1.55	<5	152	<1	<5	0.38	<1	8	10	22	2.59	<5	0.10	4	12	0.37	510	2	0.02	7	370	21	<0.01	<5	2	<10	<5	28	0.05	<5	88	<5	2	7
33	L100E 4+00N	<0.2	1.55	<5	160	<1	<5	0.38	<1	8	10	18	2.26	<5	0.07	4	10	0.29	630	2	0.02	6	980	12	0.01	<5	1	<10	<5	24	0.04	<5	60	<5	3	5
34	L100E 3+75N	<0.2	1.61	<5	206	<1	<5	0.42	<1	7	8	20	1.78	<5	0.10	4	10	0.28	590	2	0.02	7	1390	12	0.01	<5	1	<10	<5	24	0.04	<5	44	<5	3	5
35	L100E 3+50N	<0.2	1.43	<5	234	<1	<5	0.40	<1	7	8	18	1.98	<5	0.08	4	10	0.29	740	2	0.02	6	1880	12	0.02	<5	1	<10	<5	22	0.03	<5	50	<5	3	6
36	L100E 3+25N	<0.2	1.41	<5	174	<1	<5	0.40	<1	7	10	18	2.21	<5	0.11	8	10	0.30	360	1	0.03	6	560	9	<0.01	<5	2	<10	<5	28	0.05	<5	62	<5	3	4
37	L100E 3+00N	<0.2	1.17	<5	300	<1	<5	0.36	<1	6	10	18	1.80	<5	0.13	8	8	0.25	920	3	0.02	7	1340	12	0.01	<5	2	<10	<5	24	0.06	<5	36	<5	4	8
38	L100E 2+75N	<0.2	1.85	<5	260	<1	<5	0.32	<1	7	8	22	2.14	<5	0.12	6	12	0.29	450	2	0.03	7	1120	12	<0.01	<5	2	<10	<5	22	0.35	<5	56	<5	3	7
39	L100E 2+50N	<0.2	1.53	<5	206	<1	<5	0.32	<1	7	10	20	2.18	<5	0.08	6	10	0.25	500	2	0.02	6	770	15	<0.01	<5	2	<10	<5	22	0.05	<5	58	<5	3	6
40	L100E 2+25N	<0.2	1.23	<5	122	<1	<5	0.36	<1	8	10	22	2.46	<5	0.12	6	8	0.30	380	2	0.02	5	530	15	<0.01	<5	2	<10	<5	24	0.05	<5	68	<5	3	5
41	L100E 2+00N	<0.2	1.70	<5	222	<1	<5	0.38	<1	8	10	24	2.29	<5	0.11	8	10	0.28	720	2	0.03	7	680	12	0.01	<5	2	<10	<5	26	0.05	<5	60	<5	4	6
42	L100E 1+75N	<0.2	1.54	<5	194	<1	<5	0.43	<1	7	10	24	2.27	<5	0.14	6	10	0.28	760	2	0.03	8	1060	12	0.01	<5	2	<10	<5	28	0.05	<5	82	<5	3	7
43	L100E 1+50N	<0.2	1.46	<5	172	<1	<5	0.49	<1	8	12	30	2.60	<5	0.15	6	10	0.35	590	2	0.02	7	540	18	0.02	<5	2	<10	<5	30	0.05	<5	72	<5	4	6
44	L100E 1+25N	<0.2	1.17	10	110	<1	<5	0.41	<1	7	12	18	2.54	<5	0.13	8	8	0.25	360	2	0.02	6	510	15	<0.01	<5	2	<10	<5	24	0.05	<5	74	<5	4	5
45	L100E 1+00N	<0.2	1.32	<5	158	<1	<5	0.43	<1	6	10	18	2.32	<5	0.13	6	8	0.24	420	1	0.02	6	550	12	0.01	<5	1	<10	<5	26	0.05	<5	68	<5	3	7
46	L100E 0+75N	<0.2	1.52	<5	142	<1	<5	0.41	<1	7	10	26	2.27	<5	0.15	8	10	0.24	750	2	0.02	8	860	12	0.01	<5	2	<10	<5	26	0.05	<5	82	<5	4	8
47	L100E 0+50N	0.3	1.69	<5	144	<1	<5	0.38	<1	8	10	52	2.34	<5	0.13	8	10	0.25	1020	3	0.03	7	920	24	0.02	<5	2	<10	<5	28	0.05	<5	86	<5	4	12
48	L100E 0+25N	<0.2	1.84	<5	146	<1	<5	0.65	<1	9	8	76	2.53	<5	0.29	8	14	0.33	1330	2	0.03	8	1310	15	0.03	<5	2	<10	<5	34	0.05	<5	68	<5	6	25
49	L100E 0+00N	0.4	1.95	5	158	<1	<5	0.60	1	11	14	116	2.65	<5	0.23	8	18	0.41	1390	3	0.03	13	1190	48	0.03	<5	2	<10	<5	36	0.05	<5	68	<5	6	19
50	L2+00E 0+00N	<0.2	1.21	<5	138	<1	<5	0.47	<1	6	8	22	2.08	<5	0.18	6	10	0.22	600	2	0.02	5	850	12	0.02	<5	<1	<10	<5	28	0.04	<5	56	<5	3	5
51	L2+00E 0+25N	<0.2	1.77	<5	254	<1	<5	0.54	<1	8	6	26	1.88	<5	0.23	6	12	0.28	810	2	0.03	6	1240	12	0.02	<5	1	<10	<5	30	0.04	<5	48	<5	4	7
52	L2+00E 0+50N	0.2	1.44	<5	214	<1	<5	0.43	<1	7	10	28	2.22	<5	0.18	8	10	0.27	660	2	0.03	7	1210	12	0.02	<5	1	<10	<5	30	0.04	<5	62	<5	4	7
53	L2+00E 0+75N	<0.2	1.39	<5	178	<1	<5	0.60	<1	7	8	24	2.62	<5	0.18	8	10	0.24	670	2	0.03	6	730	15	0.02	<5	1	<10	<5	26	0.03	<5	48	<5	4	8
54	L2+00E 1+00N	<0.2	1.49	5	290	<1	<5	0.59	<1	8	8	28	2.32	<5	0.22	6	10	0.29	720	2	0.02	6	680	18	0.03	<5	1	<10	<5	28	0.03	<5	52	<5	5	8
55	L2+00E 1+25N	<0.2	1.36	<5	224	<1	<5	0.70	<1	9	8	34	2.03	<5	0.16	8	8	0.28	970	3	0.02	6	880	42	0.03	<5	1	<10	<5	36	0.02	<5	46	<5	6	9
56	L2+00E 1+50N	<0.2	1.57	<5	184	<1	<5	0.47	<1	8	10	24	2.35	<5	0.14	6	10	0.28	810	2	0.02	6	720	18	0.02	<5	2	<10	<5	32	0.05	<5	60	<5	4	7
57	L2+00E 1+75N	<0.2	1.56	<5	224	<1	<5	0.44	<1	8	10	22	2.29	<5	0.16	8	10	0.26	810	2	0.02	6	820	15	0.02	<5	2	<10	<5	26	0.04	<5	80	<5	4	8
58	L2+00E 2+00N	<0.2	1.68	<5	218	<1	<5	0.47	<1	8	10	22	2.34	<5	0.15	6	12	0.28	880	2	0.02	7	640	15	0.02	<5	2	<10	<5	30	0.05	<5	60	<5	4	7
59	L2+00E 2+25N	<0.2	1.53	<5	222	<1	<5	0.47	<1	7	10	22	2.15	<5	0.14	6	12	0.30	900	2	0.03	7	760	12	0.02	<5	2	<10	<5	26	0.04	<5	54	<5	3	8
60	L2+00E 2+50N	<0.2	1.94	<5	292	<1	<5	0.41	<1	8	10	22	2.42	<5	0.13	6	14	0.30	740	3	0.03	7	480	12	0.01	<5	2	<10	<5	24	0.05	<5	58	<5	4	7
61	L2+00E 2+75N	<0.2	1.85	<5	016	<1	<5	0.46	<1	9	10	26	2.52	<5	0.15	8	12	0.34	740	2	0.03	7	520	15	<0.01	<5	3	<10	<5	26	0.04	<5	80	<5	5	6
62	L2+00E 3+00N	<0.2	1.68	<5	216	<1	<5	0.53	<1	9	10	22	2.42	<5	0.19	6	12	0.38	740	2	0.02	6	610	12	<0.01	<5	3	<10	<5	28	0.05	<5	60	<5	3	7
63	L2+00E 3+25N	<0.2	1.17	<5	194	<1	<5	0.35	<1	6	8	14	2.08	<5	0.07	6	8	0.21	510	1	0.02	6	1110	9	<0.01	<5	1	<10	<5	26	0.05	<5	54	<5	3	5
64	L2+00E 3+50N	<0.2	1.24	<5	184	<1	<5	0.34	<1	6	8	12	1.88	<5	0.12	6	10	0.22	550	1	0.03	6	1490	9	<0.01	<5	1	<10	<5	26	0.05	<5	48	<5	3	6
65	L2+00E 3+75N	<0.2	1.10	<5	210	<1	<5	0.35	<1	5	8	12	1.75	<5	0.09	6	10	0.15	550	1	0.02	6	1650	9	<0.01	<5	1	<10	<5	30	0.05	<5	42	<5	3	6
66	L2+00E 4+00N	<0.2	1.07	<5	120	<1	<5	0.24	<1	5	8	14	1.88	<5	0.07	4	10	0.16	270	1	0.02	6	1240	9	>0.01	<5	1	<10	<5	18	0.04	>5	46	<5	2	6
67	L2+00E 4+25N	<0.2	0.98	<5	138	<1	<5	0.20	<1	5	8	12	1.99	<5	0.06	4	8	0.14	400	1	0.03	5	1100	6	>0.01	<5	1	<10	<5	20	0.04	>5	52	<5	2	6
68	L2+00E 4+50N	<0.2	0.91	<5	110	<1	<5	0.25	<1	5	8	10	1.98	<5	0.07	6	8	0.16	290	<1	0.02	6	840	6	>0.01	<5	1	<10	<5	20	0.04	>5	52	<5	2	6
69	L2+00E 4+75N	0.2	1.15	<5	146	<1	<5	0.29	<1	5	8	12	1.68	<5	0.10	6	10	0.16	330	1	0.02	5	1130	9	>0.01	<5	1	<10	<5	28	0.04	>5	42	<5	2	6
70	L2+00E 5+00N	0.2	0.88	<5	106	<1	<5	0.25	<1	4	8	10	1.87	<5	0.06	4	8	0.14	250	1	0.02	5	960	6	>0.01	<5	<1	<10	<5	20	0.04	>5	52	<5	2	6

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Et#	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Mg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zr
71	L2+00E 5+25N	<0.2	0.96	5	88	<1	<5	0.29	<1	6	10	14	2.30	<5	0.08	6	6	0.19	240	1	0.02	5	690	9	<0.01	<5	1	<10	<5	24	0.05	<5	68	<5	3	4
72	L2+00E 5+50N	<0.2	0.79	<5	80	<1	<5	0.24	<1	4	8	10	1.76	<5	0.10	6	8	0.15	230	1	0.02	4	500	6	<0.01	<5	1	<10	<5	20	0.04	<5	42	<5	3	3
73	L2+00E 5-75N	<0.2	1.14	<5	208	<1	<5	0.29	<1	5	6	10	1.56	<5	0.09	4	10	0.13	580	2	0.03	4	870	8	<0.01	<5	1	<10	<5	24	0.05	<5	34	<5	2	4
74	L2+00E 8+00N	<0.2	1.44	<5	220	<1	<5	0.50	<1	9	8	16	2.10	<5	0.22	4	10	0.38	860	2	0.03	9	350	12	<0.01	<5	2	<10	<5	52	0.07	<5	50	<5	3	5
75	L3+00E 8+00N	<0.2	1.62	<5	144	<1	<5	0.35	<1	7	10	22	2.41	<5	0.16	8	12	0.27	860	2	0.02	6	620	12	<0.01	<5	2	<10	<5	28	0.06	<5	68	<5	5	6
76	L3+00E 5+75N	0.3	1.38	<5	198	<1	<5	0.29	<1	6	8	14	1.92	<5	0.08	4	10	0.20	750	3	0.02	8	880	12	<0.01	<5	1	<10	<5	26	0.06	<5	48	<5	2	6
77	L3+00E 5+50N	<0.2	1.07	<5	118	<1	<5	0.30	<1	5	8	12	2.00	<5	0.10	4	8	0.20	410	1	0.02	6	590	9	<0.01	<5	1	<10	<5	28	0.05	<5	56	<5	2	5
78	L3+00E 5+25N	<0.2	0.79	<5	80	<1	<5	0.29	<1	6	10	8	2.09	<5	0.11	6	6	0.15	330	1	0.03	4	290	6	<0.01	<5	1	<10	<5	24	0.05	<5	68	<5	3	2
79	L3+00E 5+00N	<0.2	0.95	<5	94	<1	<5	0.24	<1	5	10	8	2.16	<5	0.10	6	6	0.14	290	<1	0.03	5	420	6	<0.01	<5	1	<10	<5	22	0.05	<5	62	<5	2	3
80	L3+00E 4+75N	<0.2	0.95	<5	128	<1	<5	0.24	<1	5	8	10	1.85	<5	0.10	6	4	0.14	390	1	0.03	6	990	6	<0.01	<5	1	<10	<5	20	0.04	<5	56	<5	3	4
81	L3+00E 4+50N	<0.2	0.81	<5	110	<1	<5	0.25	<1	4	8	8	1.57	<5	0.08	6	6	0.12	290	1	0.02	4	1100	8	<0.01	<5	<1	<10	<5	18	0.04	<5	40	<5	2	3
82	L3+00E 4+25N	<0.2	0.90	<5	72	<1	<5	0.20	<1	5	10	10	1.94	<5	0.07	6	6	0.14	230	<1	0.02	5	550	8	<0.01	<5	1	<10	<5	18	0.05	<5	48	<5	3	3
83	L3+00E 4+00N	<0.2	1.03	<5	152	<1	<5	0.31	<1	5	8	12	1.92	<5	0.06	6	14	0.14	530	2	0.03	4	1210	6	<0.01	<5	1	<10	<5	20	0.04	<5	50	<5	3	6
84	L3+00E 3+75N	<0.2	0.74	<5	76	<1	<5	0.25	<1	4	8	8	2.04	<5	0.08	6	6	0.13	280	1	0.02	3	430	6	<0.01	<5	1	<10	<5	20	0.04	<5	58	<5	3	2
85	L3+00E 3+50N	<0.2	1.10	<5	124	<1	<5	0.42	<1	6	8	12	1.73	<5	0.14	4	10	0.24	430	1	0.03	6	430	9	<0.01	<5	1	<10	<5	24	0.04	<5	40	<5	2	4
86	L3+00E 3+25N	<0.2	0.90	<5	148	<1	<5	0.22	<1	5	10	10	1.87	<5	0.08	6	6	0.16	415	2	0.02	5	810	9	<0.01	<5	1	<10	<5	16	0.05	<5	38	<5	2	4
87	L3+00E 3+00N	<0.2	1.09	<5	128	<1	<5	0.25	<1	5	8	10	1.88	<5	0.08	6	10	0.16	290	1	0.02	5	360	9	<0.01	<5	1	<10	<5	18	0.05	<5	48	<5	2	3
88	L3+00E 2+75N	<0.2	1.22	<5	226	<1	<5	0.42	<1	6	8	16	1.93	<5	0.09	4	8	0.22	580	2	0.02	5	1270	9	<0.01	<5	1	<10	<5	24	0.04	<5	50	<5	3	5
89	L3+00E 2+50N	<0.2	1.30	<5	216	<1	<5	0.34	<1	6	8	16	2.08	<5	0.08	6	10	0.22	480	2	0.02	6	1050	12	<0.01	<5	2	<10	<5	22	0.04	<5	50	<5	3	5
90	L3+00E 2+25N	<0.2	1.39	<5	198	<1	<5	0.37	<1	7	8	20	1.85	<5	0.07	6	10	0.22	800	2	0.03	6	1050	12	0.01	<5	1	<10	<5	26	0.04	<5	44	<5	4	5
91	L3+00E 2+00N	<0.2	1.45	<5	204	<1	<5	0.47	<1	8	10	24	2.39	<5	0.12	6	10	0.31	710	2	0.02	7	550	15	0.02	<5	2	<10	<5	28	0.04	<5	60	<5	4	7
92	L3+00E 1+75N	<0.2	1.40	<5	274	<1	<5	0.55	<1	6	8	30	2.28	<5	0.19	6	10	0.30	680	3	0.02	7	580	21	0.02	<5	2	<10	<5	28	0.03	<5	50	<5	6	8
93	L3+00E 1+50N	<0.2	1.34	<5	238	<1	<5	0.59	<1	8	8	26	2.05	<5	0.17	6	10	0.26	1040	2	0.02	7	870	15	0.02	<5	1	<10	<5	34	0.03	<5	52	<5	5	7
94	L3+00E 1+25N	<0.2	1.31	<5	196	<1	<5	0.54	<1	8	8	24	1.86	<5	0.13	6	10	0.28	850	2	0.02	6	820	12	0.02	<5	1	<10	<5	30	0.03	<5	48	<5	5	5
95	L3+00E 1+00N	<0.2	2.03	<5	194	<1	<5	0.38	<1	9	10	28	2.60	<5	0.19	6	14	0.34	640	3	0.02	8	910	21	<0.01	<5	3	<10	<5	28	0.05	<5	68	<5	4	7
96	L3+00E 0+75N	0.4	1.58	5	292	<1	<5	0.56	<1	10	10	56	2.60	<5	0.18	6	14	0.34	960	3	0.02	7	560	18	0.02	<5	3	<10	<5	26	0.03	<5	60	<5	8	7
97	L3+00E 0+50N	<0.2	1.65	<5	210	<1	<5	0.47	<1	8	8	24	2.12	<5	0.13	6	12	0.27	880	2	0.02	8	910	15	0.02	<5	2	<10	<5	28	0.04	<5	56	<5	4	6
98	L3+00E 0+25N	<0.2	1.46	<5	248	<1	<5	0.49	<1	7	8	24	2.10	<5	0.19	6	8	0.25	860	2	0.02	6	1060	12	0.01	<5	1	<10	<5	28	0.04	<5	52	<5	4	6
99	L3+00E 0+00N	<0.2	1.38	<5	180	<1	<5	0.41	<1	7	10	22	2.20	<5	0.20	6	10	0.25	630	2	0.02	6	980	12	0.01	<5	2	<10	<5	28	0.05	<5	58	<5	4	6
100	1+00W 2+25N	0.9	1.65	15	216	<1	<5	0.58	1	10	8	78	3.28	<5	0.20	6	10	0.33	720	10	0.02	7	570	468	0.02	<5	3	<10	<5	66	0.02	<5	56	<5	5	27
101	1+00W 2+50N	<0.2	1.60	<5	172	<1	<5	0.46	<1	7	10	20	2.34	<5	0.11	6	10	0.25	700	1	0.03	6	300	12	<0.01	<5	2	<10	<5	42	0.06	<5	66	<5	3	6
102	1+00W 2+75N	<0.2	1.60	<5	216	<1	<5	0.37	<1	6	8	16	2.06	<5	0.09	4	10	0.19	770	1	0.03	5	580	9	<0.01	<5	1	<10	<5	30	0.05	<5	54	<5	3	7
103	1+00W 3+00N	<0.2	1.31	<5	228	<1	<5	0.48	<1	6	6	14	1.84	<5	0.12	4	8	0.18	1100	3	0.02	4	480	12	0.01	<5	1	<10	<5	28	0.04	<5	50	<5	2	8
104	1+00W 3+25N	0.2	1.33	<5	200	<1	<5	0.37	<1	6	6	16	1.74	<5	0.18	4	10	0.23	700	3	0.02	5	1030	12	0.01	<5	1	<10	<5	22	0.03	<5	42	<5	2	8
105	1+00W 3+50N	<0.2	1.36	10	362	<1	<5	0.40	<1	8	8	32	2.62	<5	0.17	8	12	0.26	880	5	0.03	6	950	39	<0.01	<5	2	<10	<5	26	0.04	<5	52	<5	6	11
106	1+00W 3+75N	<0.2	1.31	<5	196	<1	<5	0.36	<1	7	10	22	2.52	<5	0.12	6	10	0.28	530	2	0.03	6	1240	24	<0.01	<5	2	>10	<5	26	0.05	<5	66	<5	4	1
107	1+00W 4+00N	<0.2	1.33	<5	148	<1	<5	0.49	<1	7	10	24	2.32	<5	0.13	6	10	0.26	380	2	0.03	8	840	18	<0.01	<5	2	>10	<5	32	0.05	<5	62	<5	4	1
108	1+00W 4+25N	<0.2	1.29	<5	110	<1	<5	0.41	<1	6	10	20	2.22	<5	0.13	6	10	0.23	340	1	0.03	6	880	15	<0.01	<5	2	<10	<5	24	0.06	<5	62	<5	4	1
109	1+00W 4+50N	<0.2	1.43	<5	132	<1	<5	0.42	<1	7	10	22	2.29	<5	0.14	6	10	0.29	380	1	0.03	7	1420	12	<0.01	<5	2	>10	<5	26	0.05	<5	62	<5	4	1
110	1+00W 4+75N	<0.2	1.45	<5	112	<1	<5	0.47	<1	6	14	22	2.64	<5	0.18	6	12	0.33	360	1	0.03	6	340	12	<0.01	<5	3	>10	<5	24	0.06	<5				

Et #.	Tag #	Ag	Al%	As	Ba	Be	Bi	Cu%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zr
111	1+00W 5+00N	0.2	0.41	<5	110	<1	<5	10.69	<1	2	2	16	0.42	<5	0.04	2	2	0.22	220	<1	0.02	3	470	<3	0.05	<5	<1	<10	<5	52	<0.01	<5	8	<5	2	28
112	1+00W 5+25N	<0.2	1.14	<5	58	<1	<5	0.49	<1	8	14	18	2.99	<5	0.12	8	12	0.37	400	-1	0.03	7	500	12	<0.01	<5	2	<10	<5	28	0.07	<5	88	<5	4	38
113	1+00W 5+50N	<0.2	0.97	<5	100	<1	<5	0.22	<1	6	12	14	2.18	<5	0.09	6	8	0.21	325	2	0.03	8	400	15	<0.01	<5	2	<10	<5	16	0.08	<5	50	<5	3	30
114	1+00W 5+75N	<0.2	1.19	<5	110	<1	<5	0.43	<1	6	10	12	2.12	<5	0.13	4	10	0.20	440	<1	0.03	5	430	9	<0.01	<5	1	<10	<5	22	0.06	<5	58	<5	3	38
115	1+00W 6+00N	<0.2	1.12	<5	78	<1	<5	0.38	<1	7	10	14	2.38	<5	0.15	6	10	0.24	300	1	0.03	5	500	9	<0.01	<5	2	<10	<5	22	0.06	<5	68	<5	3	40
116	2+00W 6+00N	<0.2	1.03	<5	128	<1	<5	0.68	<1	6	8	20	1.68	<5	0.21	4	8	0.19	490	<1	0.03	5	1230	9	0.01	<5	1	<10	<5	38	0.04	<5	42	<5	3	48
117	2+00W 5+50N	<0.2	1.83	<5	108	<1	<5	0.60	<1	9	18	24	2.51	<5	0.19	8	18	0.41	310	1	0.03	10	370	12	<0.01	<5	2	<10	<5	30	0.08	<5	66	<5	5	54
118	2+00W 5+25N	<0.2	1.22	<5	108	<1	<5	0.40	<1	7	10	12	2.22	<5	0.15	6	10	0.25	430	1	0.03	6	610	12	<0.01	<5	2	<10	<5	26	0.08	<5	60	<5	3	46
119	2+00W 5+00N	<0.2	1.18	<5	108	<1	<5	0.62	<1	6	10	30	2.14	<5	0.15	6	10	0.30	390	1	0.03	8	320	9	0.01	<5	1	<10	<5	34	0.06	<5	80	<5	5	44
120	2+00W 4+75N	<0.2	1.19	<5	122	<1	<5	0.61	<1	6	10	36	1.98	<5	0.22	6	12	0.26	480	2	0.03	8	850	12	0.01	<5	2	<10	<5	40	0.05	<5	52	<5	4	54
121	2+00W 4+50N	<0.2	1.12	<5	124	<1	<5	0.49	<1	6	10	20	1.97	<5	0.13	6	8	0.25	530	1	0.03	6	900	12	<0.01	<5	2	<10	<5	32	0.05	<5	58	<5	3	58
122	2+00W 4+25N	<0.2	1.13	<5	98	<1	<5	0.43	<1	7	10	18	2.18	<5	0.13	6	8	0.25	420	1	0.03	6	770	12	0.01	<5	1	<10	<5	30	0.05	<5	62	<5	4	50
123	2+00W 4+00N	<0.2	1.03	<5	90	<1	<5	0.49	<1	7	12	28	2.58	<5	0.15	6	8	0.28	420	<1	0.03	6	550	12	0.01	<5	2	<10	<5	30	0.05	<5	74	<5	4	42
124	2+00W 3+75N	<0.2	1.01	<5	114	<1	<5	0.40	<1	7	12	16	2.33	<5	0.15	6	8	0.22	500	1	0.03	8	450	9	<0.01	<5	2	<10	<5	32	0.05	<5	64	<5	4	48
125	2+00W 3+50N	<0.2	0.96	<5	76	<1	<5	0.40	<1	6	12	14	2.48	<5	0.13	6	6	0.23	410	1	0.03	6	440	9	<0.01	<5	2	<10	<5	28	0.06	<5	72	<5	3	44
126	2+00W 3+25N	<0.2	1.18	<5	114	<1	<5	0.38	<1	8	10	14	2.17	<5	0.11	4	8	0.20	430	1	0.03	6	1030	9	<0.01	<5	1	<10	<5	32	0.05	<5	60	<5	3	54
127	2+00W 3+00N	<0.2	1.28	<5	104	<1	<5	0.40	<1	6	10	18	2.32	<5	0.11	6	8	0.23	330	1	0.03	8	310	9	<0.01	<5	2	<10	<5	30	0.08	<5	88	<5	3	42
128	2+00W 2+75N	0.3	1.69	<5	260	<1	<5	0.41	<1	10	16	58	3.23	<5	0.19	8	12	0.27	840	2	0.03	13	500	21	0.01	<5	3	<10	<5	28	0.06	<5	86	<5	6	142
129	2+00W 2+50N	0.3	2.49	5	232	<1	<5	0.58	<1	14	36	130	3.66	<5	0.38	8	20	0.70	1260	2	0.03	30	850	18	0.02	<5	4	<10	<5	38	0.07	<5	100	<5	6	180

**QC DATA:**

**Repeat:**

1	RATS 0+00N	2.8	1.85	15	142	<1	<5	0.88	6	18	12	1325	3.61	<5	0.18	8	20	1.07	3740	6	0.02	12	1550	36	0.04	<5	2	<10	<5	40	0.02	<5	104	<5	6	74E
11	RATS 2+75N	<0.2	1.73	<5	174	<1	<5	0.44	<1	6	12	24	2.62	<5	0.16	8	10	0.35	580	2	0.02	7	630	12	<0.01	<5	3	<10	<5	28	0.08	<5	70	<5	3	70
21	RATS 5+25N	<0.2	1.83	10	194	<1	<5	0.42	<1	9	10	28	2.53	<5	0.08	6	12	0.39	660	2	0.03	8	950	36	<0.01	<5	2	<10	<5	28	0.05	<5	68	<5	3	84
29	L100E 5+00N	<0.2	1.19	<5	134	<1	<5	0.28	<1	6	10	18	2.11	<5	0.08	6	10	0.22	310	1	0.02	6	860	9	<0.01	<5	1	<10	<5	24	0.05	<5	54	<5	2	54
36	L100E 3+25N	<0.2	1.44	<5	176	<1	<5	0.40	<1	7	10	18	2.17	<5	0.11	6	10	0.30	360	1	0.03	6	570	12	<0.01	<5	2	<10	<5	28	0.05	<5	80	<5	3	44
45	L100E 1+00N	0.2	1.34	<5	158	<1	<5	0.43	<1	7	10	18	2.36	<5	0.13	6	8	0.25	420	2	0.02	6	550	12	0.01	<5	1	<10	<5	28	0.05	<5	70	<5	3	74
54	L2+00E 1+00N	0.2	1.52	5	292	<1	<5	0.60	<1	9	10	30	2.40	<5	0.23	6	12	0.31	750	3	0.02	7	730	21	0.03	<5	2	<10	<5	28	0.04	<5	58	<5	5	92
63	L2+00E 3+25N	<0.2	1.24	<5	198	<1	<5	0.38	<1	6	8	14	1.93	<5	0.08	6	10	0.22	530	1	0.02	6	1200	9	<0.01	<5	1	<10	<5	28	0.05	<5	50	<5	3	54
71	L2+00E 5+25N	<0.2	0.94	10	72	<1	<5	0.29	<1	6	10	14	2.35	<5	0.08	6	8	0.19	250	1	0.02	5	700	9	<0.01	<5	1	<10	<5	26	0.05	<5	68	<5	3	41
81	L3+00E 4+50N	<0.2	0.80	<5	112	<1	<5	0.25	<1	4	8	6	1.50	<5	0.08	4	6	0.12	290	1	0.02	4	1120	6	<0.01	<5	<1	<10	<5	18	0.04	<5	38	<5	2	38
89	L3+00E 2+50N	<0.2	1.31	<5	210	<1	<5	0.34	<1	6	8	18	2.10	<5	0.09	6	10	0.22	460	2	0.02	6	1020	12	<0.01	<5	2	<10	<5	22	0.04	<5	52	<5	3	55
98	L3+00E 0+25N	<0.2	1.54	<5	254	<1	<5	0.52	<1	8	10	28	2.20	<5	0.20	6	10	0.26	900	2	0.02	7	1110	12	0.02	<5	2	<10	<5	32	0.05	<5	58	<5	4	60
108	1+00W 3+75N	<0.2	1.33	<5	208	<1	<5	0.40	<1	7	10	20	2.47	<5	0.12	6	10	0.28	550	2	0.03	6	1280	21	<0.01	<5	2	<10	<5	28	0.04	<5	60	<5	4	60
115	1+00W 6+00N	<0.2	1.14	<5	78	<1	<5	0.40	<1	7	12	14	2.48	<5	0.15	6	10	0.25	310	1	0.03	6	470	9	<0.01	<5	2	<10	<5	24	0.07	<5	70	<5	3	44

**Standard:**

Tilt-3	1.4	1.05	85	34	<1	<5	0.54	<1	11	58	18	1.98	<5	0.10	10	20	0.56	300	1	0.03	30	440	18	0.01	<5	2	<10	<5	16	0.05	<5	38	<5	4	60
Tilt-3	1.4	1.05	80	34	<1	<5	0.58	<1	11	58	20	1.90	<5	0.10	12	20	0.56	310	1	0.03	31	430	21	0.01	<5	2	<10	<5	18	0.05	<5	36	<5	4	60
Tilt-3	1.5	1.03	80	34	<1	<5	0.58	<1	11	58	20	2.08	<5	0.09	12	20	0.55	305	<1	0.03	31	450	18	0.01	<5	3	<10	<5	18	0.05	<5	38	<5	5	44
Tilt-3	1.4	1.02	80	34	<1	<5	0.55	<1	11	58	18	1.98	<5	0.10	12	20	0.54	310	<1	0.03	30	440	18	0.01	<5	3	<10	<5	16	0.05	<5	38	<5	5	44

ICP: Aqua Regia Digest / ICP-AES Finish.

NM/sa  
J68403  
XLS/10

  
**ECO TECH LABORATORY LTD.**  
 Norman Monteith

11/09/2010 09:53 250-3789277 KNIGHTS INN PAGE 02/11

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**StewartGroup**  
 Geochemical & Assay

**CERTIFICATE OF ANALYSIS AK 2010- 0840**

**Christopher Delorme**  
 PO Box 1904  
 Merritt, BC  
 V1K 1B8

10-Oct-15

*No. of samples received: 129*  
*Sample Type: Soil*  
*Project: RAT*  
*Submitted by: Chris Delorme*

ET #.	Tag #	Au (ppb)
1	RATS 0+00N	5
2	RATS 0+25N	5
3	RATS 0+75N	5
4	RATS 1+00N	<5
5	RATS 1+25N	<5
6	RATS 1+50N	5
7	RATS 1+75N	<5
8	RATS 2+00N	<5
9	RATS 2+25N	<5
10	RATS 2+50N	<5
11	RATS 2+75N	<5
12	RATS 3+00N	5
13	RATS 3+25N	5
14	RATS 3+50N	5
15	RATS 3+75N	<5
16	RATS 4+00N	<5
17	RATS 4+25N	<5
18	RATS 4+50N	5
19	RATS 4+75N	10
20	RATS 5+00N	<5
21	RATS 5+25N	<5
22	RATS 5+50N	<5
23	RATS 5+75N	5
24	RATS 6+00N	<5
25	L100E 6+00N	5
26	L100E 5+75N	5
27	L100E 5+50N	5
28	L100E 5+25N	5
29	L100E 5+00N	<5

All assays are undertaken subject to the Company's General Conditions of Business which are available on request. Registered Office: Eco Tech Laboratory Ltd., 2953 Shuswap Road, Kamloops, BC V2H 1S9 Canada

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**Stewart Group**  
 Geochemical & Assay

**Christopher Delorme AK10-0840**

10-Oct-15

ET #.	Tag #	Au (ppb)
30	L100E 4+75N	<5
31	L100E 4+50N	15
32	L100E 4+25N	20
33	L100E 4+00N	<5
34	L100E 3+75N	5
35	L100E 3+50N	5
36	L100E 3+25N	<5
37	L100E 3+00N	5
38	L100E 2+75N	10
39	L100E 2+50N	10
40	L100E 2+25N	15
41	L100E 2+00N	<5
42	L100E 1+75N	5
43	L100E 1+50N	5
44	L100E 1+25N	<5
45	L100E 1+00N	<5
46	L100E 0+75N	5
47	L100E 0+50N	5
48	L100E 0+25N	5
49	L100E 0+00N	<5
50	L2+00E 0+0N	<5
51	L2+00E 0+25N	5
52	L2+00E 0+50N	5
53	L2+00E 0+75N	5
54	L2+00E 1+00N	5
55	L2+00E 1+25N	<5
56	L2+00E 1+50N	5
57	L2+00E 1+75N	<5
58	L2+00E 2+00N	<5
59	L2+00E 2+25N	5
60	L2+00E 2+50N	5
61	L2+00E 2+75N	<5
62	L2+00E 3+00N	5
63	L2+00E 3+25N	<5
64	L2+00E 3+50N	<5
65	L2+00E 3+75N	<5
66	L2+00E 4+00N	<5
67	L2+00E 4+25N	<5
68	L2+00E 4+50N	<5
69	L2+00E 4+75N	<5
70	L2+00E 5+00N	<5
71	L2+00E 5+25N	5
72	L2+00E 5+50N	5
73	L2+00E 5+75N	<5

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**Christopher Delorme AK10-0840**

10-Oct-15

ET #.	Tag #	Au (ppb)
74	L2+00E 6+00N	5
75	L3+00E 6+00N	<5
76	L3+00E 5+75N	5
77	L3+00E 5+50N	<5
78	L3+00E 5+25N	<5
79	L3+00E 5+00N	<5
80	L3+00E 4+75N	<5
81	L3+00E 4+50N	10
82	L3+00E 4+25N	<5
83	L3+00E 4+00N	5
84	L3+00E 3+75N	5
85	L3+00E 3+50N	<5
86	L3+00E 3+25N	<5
87	L3+00E 3+00N	10
88	L3+00E 2+75N	<5
89	L3+00E 2+50N	<5
90	L3+00E 2+25N	5
91	L3+00E 2+00N	<5
92	L3+00E 1+75N	<5
93	L3+00E 1+50N	<5
94	L3+00E 1+25N	<5
95	L3+00E 1+00N	<5
96	L3+00E 0+75N	5
97	L3+00E 0+50N	<5
98	L3+00E 0+25N	<5
99	L3+00E 0+0N	<5
100	1+00W 2+25N	15
101	1+00W 2+50N	5
102	1+00W 2+75N	<5
103	1+00W 3+00N	5
104	1+00W 3+25N	<5
105	1+00W 3+50N	10
106	1+00W 3+75N	5
107	1+00W 4+00N	5
108	1+00W 4+25N	<5
109	1+00W 4+50N	<5
110	1+00W 4+75N	<5
111	1+00W 5+00N	5
112	1+00W 5+25N	5
113	1+00W 5+50N	<5
114	1+00W 5+75N	5
115	1+00W 6+00N	5
116	2+00W 6+00N	5
117	2+00W 5+50N	5

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## ICP CERTIFICATE OF ANALYSIS AK 2010- 0840

Christopher Delorme

PO Box 1904

Merritt, BC

V1K 1B8

No. of samples received: 129

Sample Type: Soil

Project: RAT

Submitted by: Chris Delorme

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zn
1	RATS 0+00N	2.7	1.78	15	146	<1	<5	0.88	7	18	12	1352	3.60	<5	0.17	8	18	0.98	3720	6	0.02	12	1510	36	0.04	<5	2	<10	<5	40	0.02	<5	102	<5	7	750
2	RATS 0+25N	0.5	1.68	5	160	<1	<5	0.62	<1	11	16	206	2.62	<5	0.29	6	14	0.46	1210	4	0.03	13	1390	21	0.02	<5	2	<10	<5	38	0.05	<5	70	<5	4	178
3	RATS 0+75N	0.3	1.26	5	260	<1	<5	0.50	2	7	10	56	2.23	<5	0.17	6	8	0.23	740	3	0.03	7	830	21	0.04	<5	1	<10	<5	32	0.03	<5	56	<5	4	162
4	RATS 1+00N	0.4	1.14	5	304	<1	<5	0.39	3	7	20	26	2.09	<5	0.10	8	6	0.29	640	5	0.03	10	720	24	0.04	<5	<1	<10	<5	32	0.04	<5	40	<5	4	264
5	RATS 1+25N	0.2	1.65	<5	244	<1	<5	0.53	<1	7	8	26	2.00	<5	0.18	6	12	0.28	810	3	0.03	6	610	15	0.02	<5	1	<10	<5	26	0.04	<5	50	<5	3	80
6	RATS 1+50N	0.3	1.34	5	166	<1	<5	0.38	<1	6	10	22	2.44	<5	0.13	6	10	0.23	470	3	0.02	5	400	21	0.02	<5	1	<10	<5	22	0.04	<5	66	<5	3	130
7	RATS 1+75N	<0.2	1.42	<5	176	<1	<5	0.35	<1	6	10	16	2.10	<5	0.15	4	10	0.22	880	2	0.03	5	350	12	<0.01	<5	2	<10	<5	24	0.05	<5	56	<5	3	66
8	RATS 2+00N	<0.2	1.35	<5	136	<1	<5	0.32	<1	7	10	16	2.36	<5	0.10	4	8	0.21	450	2	0.03	5	370	12	<0.01	<5	2	<10	<5	26	0.06	<5	68	<5	3	52
9	RATS 2+25N	<0.2	1.64	<5	164	<1	<5	0.28	<1	6	8	14	1.99	<5	0.08	4	10	0.20	660	2	0.03	6	1050	9	<0.01	<5	1	<10	<5	24	0.05	<5	52	<5	2	80
10	RATS 2+50N	<0.2	1.71	<5	214	<1	<5	0.32	<1	6	8	14	2.05	<5	0.13	4	10	0.22	720	2	0.03	6	650	12	<0.01	<5	2	<10	<5	28	0.06	<5	52	<5	2	70
11	RATS 2+75N	<0.2	1.70	<5	170	<1	<5	0.42	<1	8	12	22	2.59	<5	0.16	4	10	0.34	540	1	0.02	7	620	12	<0.01	<5	3	<10	<5	28	0.06	<5	70	<5	3	66
12	RATS 3+00N	<0.2	1.40	5	166	<1	<5	0.34	<1	11	12	34	3.13	<5	0.12	8	10	0.42	610	3	0.02	8	320	18	<0.01	<5	3	<10	<5	20	0.03	<5	76	<5	4	58
13	RATS 3+25N	<0.2	1.27	5	164	<1	<5	0.36	<1	8	10	28	2.83	<5	0.16	8	10	0.34	530	3	0.02	7	480	33	0.02	<5	3	<10	<5	22	0.05	<5	70	<5	6	88
14	RATS 3+50N	<0.2	1.40	<5	170	<1	<5	0.43	<1	8	12	26	2.57	<5	0.13	6	10	0.35	530	2	0.02	7	470	21	0.02	<5	2	<10	<5	26	0.05	<5	74	<5	3	56
15	RATS 3+75N	<0.2	1.46	<5	178	<1	<5	0.32	<1	7	10	18	2.22	<5	0.11	6	8	0.25	490	1	0.03	6	1100	12	<0.01	<5	2	<10	<5	24	0.05	<5	62	<5	3	54
16	RATS 4+00N	<0.2	1.25	<5	146	<1	<5	0.32	<1	7	10	14	2.09	<5	0.06	4	8	0.23	490	1	0.02	6	570	9	<0.01	<5	1	<10	<5	22	0.04	<5	60	<5	2	42
17	RATS 4+25N	<0.2	1.38	<5	168	<1	<5	0.38	<1	6	10	14	2.18	<5	0.07	4	10	0.23	590	2	0.03	6	730	12	<0.01	<5	1	<10	<5	24	0.05	<5	60	<5	2	50
18	RATS 4+50N	<0.2	1.66	<5	144	<1	<5	0.30	<1	7	10	20	2.48	<5	0.07	6	10	0.26	360	2	0.03	7	690	12	<0.01	<5	2	<10	<5	24	0.06	<5	68	<5	3	56
19	RATS 4+75N	<0.2	1.75	5	162	<1	<5	0.35	<1	8	10	24	2.44	<5	0.08	6	10	0.29	570	2	0.03	7	990	15	0.01	<5	2	<10	<5	26	0.05	<5	68	<5	3	62
20	RATS 5+00N	<0.2	1.59	5	228	<1	<5	0.43	<1	8	10	26	2.30	<5	0.12	6	10	0.30	770	2	0.02	7	1030	27	0.01	<5	2	<10	<5	38	0.04	<5	60	<5	3	64
21	RATS 5+25N	<0.2	1.83	10	190	<1	<5	0.41	<1	9	10	28	2.64	<5	0.08	6	12	0.39	660	2	0.03	8	970	36	<0.01	<5	2	<10	<5	26	0.05	<5	70	<5	3	86
22	RATS 5+50N	<0.2	1.73	5	166	<1	<5	0.36	<1	9	10	22	2.65	<5	0.12	4	14	0.31	700	2	0.03	7	560	21	0.01	<5	2	<10	<5	26	0.06	<5	68	<5	3	60
23	RATS 5+75N	<0.2	1.48	<5	128	<1	<5	0.43	<1	9	12	24	2.56	<5	0.11	6	12	0.40	420	2	0.03	9	460	18	<0.01	<5	2	<10	<5	28	0.06	<5	60	<5	4	58
24	RATS 6+00N	<0.2	1.15	<5	94	<1	<5	0.35	<1	7	12	20	2.40	<5	0.11	8	10	0.29	380	2	0.02	7	540	12	<0.01	<5	2	<10	<5	26	0.06	<5	64	<5	5	52
25	L100E 6+00N	<0.2	1.20	<5	168	<1	<5	0.29	<1	5	8	10	1.74	<5	0.13	6	10	0.17	530	1	0.02	7	1250	9	<0.01	<5	1	<10	<5	24	0.05	<5	42	<5	2	70
26	L100E 5+75N	<0.2	0.81	<5	66	<1	<5	0.32	<1	6	12	12	2.29	<5	0.12	8	6	0.23	310	1	0.02	6	740	9	<0.01	<5	2	<10	<5	24	0.05	<5	62	<5	4	40
27	L100E 5+50N	<0.2	0.89	<5	80	<1	<5	0.36	<1	6	10	16	2.23	<5	0.14	10	8	0.26	310	1	0.02	6	770	9	<0.01	<5	2	<10	<5	26	0.05	<5	58	<5	4	44
28	L100E 5+25N	<0.2	0.92	<5	130	<1	<5	0.25	<1	6	12	16	2.34	<5	0.08	8	6	0.23	355	2	0.02	7	840	12	<0.01	<5	2	<10	<5	24	0.06	<5	52	<5	3	46
29	L100E 5+00N	<0.2	1.19	<5	136	<1	<5	0.28	<1	6	10	16	2.03	<5	0.09	4	10	0.22	330	1	0.02	6	880	9	<0.01	<5	1	<10	<5	24	0.05	<5	52	<5	2	50
30	L100E 4+75N	<0.2	1.14	<5	132	<1	<5	0.37	<1	7	10	16	2.29	<5	0.10	6	8	0.25	430	2	0.02	7	830	12	<0.01	<5	2	<10	<5	28	0.05	<5	62	<5	3	56



## CERTIFICATE OF ANALYSIS AK 2010- 0840

**Christopher Delorme**  
PO Box 1904  
**Merritt, BC**  
V1K 1B8

10-Oct-15

*No. of samples received: 129*

*Sample Type: Soil*

**Project: RAT**

*Submitted by: Chris Delorme*

<b>ET #.</b>	<b>Tag #</b>	<b>Au (ppb)</b>
1	RATS 0+00N	5
2	RATS 0+25N	5
3	RATS 0+75N	5
4	RATS 1+00N	<5
5	RATS 1+25N	<5
6	RATS 1+50N	5
7	RATS 1+75N	<5
8	RATS 2+00N	<5
9	RATS 2+25N	<5
10	RATS 2+50N	<5
11	RATS 2+75N	<5
12	RATS 3+00N	5
13	RATS 3+25N	5
14	RATS 3+50N	5
15	RATS 3+75N	<5
16	RATS 4+00N	<5
17	RATS 4+25N	<5
18	RATS 4+50N	5
19	RATS 4+75N	10
20	RATS 5+00N	<5
21	RATS 5+25N	<5
22	RATS 5+50N	<5
23	RATS 5+75N	5
24	RATS 6+00N	<5
25	L100E 6+00N	5
26	L100E 5+75N	5
27	L100E 5+50N	5
28	L100E 5+25N	5
29	L100E 5+00N	<5

ET #.	Tag #	Au (ppb)
30	L100E 4+75N	<5
31	L100E 4+50N	15
32	L100E 4+25N	20
33	L100E 4+00N	<5
34	L100E 3+75N	5
35	L100E 3+50N	5
36	L100E 3+25N	<5
37	L100E 3+00N	5
38	L100E 2+75N	10
39	L100E 2+50N	10
40	L100E 2+25N	15
41	L100E 2+00N	<5
42	L100E 1+75N	5
43	L100E 1+50N	5
44	L100E 1+25N	<5
45	L100E 1+00N	<5
46	L100E 0+75N	5
47	L100E 0+50N	5
48	L100E 0+25N	5
49	L100E 0+00N	<5
50	L2+00E 0+0N	<5
51	L2+00E 0+25N	5
52	L2+00E 0+50N	5
53	L2+00E 0+75N	5
54	L2+00E 1+00N	5
55	L2+00E 1+25N	<5
56	L2+00E 1+50N	5
57	L2+00E 1+75N	<5
58	L2+00E 2+00N	<5
59	L2+00E 2+25N	5
60	L2+00E 2+50N	5
61	L2+00E 2+75N	<5
62	L2+00E 3+00N	5
63	L2+00E 3+25N	<5
64	L2+00E 3+50N	<5
65	L2+00E 3+75N	<5
66	L2+00E 4+00N	<5
67	L2+00E 4+25N	<5
68	L2+00E 4+50N	<5
69	L2+00E 4+75N	<5
70	L2+00E 5+00N	<5
71	L2+00E 5+25N	5
72	L2+00E 5+50N	5
73	L2+00E 5+75N	<5

ET #.	Tag #	Au (ppb)
74	L2+00E 6+00N	5
75	L3+00E 6+00N	<5
76	L3+00E 5+75N	5
77	L3+00E 5+50N	<5
78	L3+00E 5+25N	<5
79	L3+00E 5+00N	<5
80	L3+00E 4+75N	<5
81	L3+00E 4+50N	10
82	L3+00E 4+25N	<5
83	L3+00E 4+00N	5
84	L3+00E 3+75N	5
85	L3+00E 3+50N	<5
86	L3+00E 3+25N	<5
87	L3+00E 3+00N	10
88	L3+00E 2+75N	<5
89	L3+00E 2+50N	<5
90	L3+00E 2+25N	5
91	L3+00E 2+00N	<5
92	L3+00E 1+75N	<5
93	L3+00E 1+50N	<5
94	L3+00E 1+25N	<5
95	L3+00E 1+00N	<5
96	L3+00E 0+75N	5
97	L3+00E 0+50N	<5
98	L3+00E 0+25N	<5
99	L3+00E 0+00N	<5
100	1+00W 2+25N	15
101	1+00W 2+50N	5
102	1+00W 2+75N	<5
103	1+00W 3+00N	5
104	1+00W 3+25N	<5
105	1+00W 3+50N	10
106	1+00W 3+75N	5
107	1+00W 4+00N	5
108	1+00W 4+25N	<5
109	1+00W 4+50N	<5
110	1+00W 4+75N	<5
111	1+00W 5+00N	5
112	1+00W 5+25N	5
113	1+00W 5+50N	<5
114	1+00W 5+75N	5
115	1+00W 6+00N	5
116	2+00W 6+00N	5
117	2+00W 5+50N	5

Christopher Delorme AK10-0840

10-Oct-15

ET #.	Tag #	Au (ppb)
118	2+00W 5+25N	<5
119	2+00W 5+00N	5
120	2+00W 4+75N	<5
121	2+00W 4+50N	<5
122	2+00W 4+25N	<5
123	2+00W 4+00N	5
124	2+00W 3+75N	<5
125	2+00W 3+50N	5
126	2+00W 3+25N	<5
127	2+00W 3+00N	<5
128	2+00W 2+75N	10
129	2+00W 2+50N	<5

**QC DATA:**

**Repeat:**

2	RATS 0+25N	<5
15	RATS 3+75N	5
25	L100E 6+00N	5
28	L100E 5+25N	5
42	L100E 1+75N	5
52	L2+00E 0+50N	<5
62	L2+00E 3+00N	5
66	L2+00E 4+00N	5
72	L2+00E 5+50N	5
81	L3+00E 4+50N	5
90	L3+00E 2+25N	5
98	L3+00E 0+25N	<5
111	1+00W 5+00N	5
116	2+00W 6+00N	5
128	2+00W 2+75N	5

**Standard:**

OXE74	615
OXF74	795
OXF74	815
OXF74	805

FA Geochem/AA Finish

NM/sa  
XLS/10

**ECO TECH LABORATORY LTD.**

Norman Monteith  
B.C. Certified Assayer

## **APPENDIX B**

