

**TECHNICAL REPORT  
FOR THE BC CLAIMS  
YMIP # 09-167**

**TARGET EVALUATION PROGRAM  
CARMACKS AREA YUKON**

**Whitehorse Mining District**

**Report for Period of Work: July 10<sup>th</sup> – September 18<sup>th</sup> 2009**

**Location:**

- 1. 31 km NNW of Carmacks, Yukon**
- 2. NTS Map Area 115 I-07**
- 3. Easting: 419 500  
Northing: 6 905 000**

**By:**

**BCGOLD CORP  
Suite 1400, 625 Howe Street  
Vancouver, BC  
V6C 2T6  
Gary Sidhu**

**March 16<sup>th</sup>, 2010**

*mappings  
no samples,  
pretty thin*



Submit completed form by March 31<sup>st</sup> to:

Yukon Mining Incentives Program  
 Energy, Mines and Resources  
 Government of the Yukon  
 102 - 300 Main Street  
 Box 2703 (K102), Whitehorse, Yukon, Y1A 2C6  
 E-mail: [ymip@gov.yk.ca](mailto:ymip@gov.yk.ca)

YMIP # 09-167

PROJECT NAME: BC

NAME AND ADDRESS	Please indicate any changes or omissions
	<hr/> <hr/> <hr/> <hr/>
E-mail:	Correct e-mail if it has changed: _____

**SUMMARY OR TECHNICAL REPORT CHECKLIST**

- Please check ✓ appropriate section.
- **MUST** be completed and submitted with your final report.
- Ensure all required information is attached to prevent delays in processing your claim

INFORMATION	INCLUDED	NOT APPLICABLE
1. Description/implementation of work	<u>  x  </u>	
2. Location map(s) of completed work	<u>  x  </u>	
3. Colored maps at adequate scale showing		
- Geology	<u>  x  </u>	
- Geophysics		<u>  x  </u>
- Geochemistry		<u>  x  </u>
4. Results		
- Drill core assays		<u>  x  </u>
- Geochemistry data		<u>  x  </u>
- Geophysical data		<u>  x  </u>
5. Drill collar location map(s)		<u>  x  </u>
6. Drill hole sections		<u>  x  </u>
7. Typewritten drill logs		<u>  x  </u>
8. Longitudinal Section(s)		<u>  x  </u>
9. Recommendations	<u>  x  </u>	
10. Future Plans	<u>  x  </u>	
11. Detailed list of project expenditures	<u>  x  </u>	
12. Copies of receipts	<u>  x  </u>	
13. Final submission form signed and dated	<u>  x  </u>	
14. Hardcopy of report with maps and data	<u>  x  </u>	
15. Electronic version of report, etc in <b>PDF</b> format	<u>  x  </u>	

**Access to Information and Protection of Privacy Act**

The information requested on this form is collected under the authority of and used for the purpose of administering the Yukon Mining Incentives Program. Questions about the collection and use of this information can be directed to the Mineral Development Geologist, Department of Energy, Mines and Resources, Yukon Government, Box 2703 (K102), Whitehorse, Yukon Territory, Y1A 2C6 (867) 456-3828.

The Department of Energy, Mines and Resources may verify all statements related to and made on this form, in any previously submitted reports, interim claims and in the Summary or Technical Report which accompanies it. I certify that:

1. I am the person, or the representative of the company or partnership, named in the Application for Funding and in the Contribution Agreement under the Yukon Mining Incentives Program.
2. I am a person who is nineteen years of age or older, and I have complied with all the requirements of the said program.
4. I hereby apply for the final payment of a contribution under the Yukon Mining Incentives Program (YMIP) and declare the information contained within the Summary or Technical Report and the Financial Summary Report to be true and accurate.

Signature of Applicant  Date March 17, 2009

Name (print) Brian Fowler

Your opinions are requested to help evaluate the formal objectives of the program, client satisfaction with regard to its administration and delivery and to determine if any changes or improvements are indicated.

1. Have you previously applied for financial assistance through YMIP?    X YES    NO

a. If YES, proceed to 'Question 2'.

b. If NO, what was your reason for not applying:

- Desire to maintain confidentiality
- Moral objection to YMIP
- Thought it was a hardrock program
- Not aware of YMIP
- To much work to apply
- Other \_\_\_\_\_

2. How important was YMIP funding to your decision to undertake the proposed project?

	Strongly Agree	Somewhat Agree	Somewhat Disagree	Strongly Disagree
a. Without YMIP the project would not have gone ahead.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. The project would have gone ahead, but on a reduced scale.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
c. The project would have gone ahead with or without YMIP.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X

Comments: \_\_\_\_\_  
\_\_\_\_\_

3. Did YMIP help to lever additional funding and/or secure an option deal? YES    X NO

If YES, please provide details: \_\_\_\_\_  
\_\_\_\_\_

4. Regarding the YMIP application/approval process, please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Somewhat Agree	Somewhat Disagree	Strongly Disagree
a. Written program information and forms were clear.	X <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Questions and inquiries were answered promptly.	X <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Applications were fairly and consistently handled	X <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Project evaluations were done in a timely manner	<input type="checkbox"/>	X <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Interim claims and payments were processed on time	<input type="checkbox"/>	X <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. If you have any suggestions for improvements or changes to YMIP or any other additional comments, please include them below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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## **1.0 SUMMARY**

The BC property, comprised of 144 contiguous claims, located approximately 8.5 km south of the Carmacks Copper deposit in the Whitehorse Mining District of central Yukon. The claims were originally staked by Shawn Ryan of Dawson City, Yukon and are currently optioned to BCGOLD Corporation ("BCG"). The history of exploration in the area stretches back to the turn of the century when copper mineralization was first discovered at Williams Creek some 40 km south of the Minto copper-gold deposit. Foliated and non-foliated granitic rocks of the Early Jurassic Aishihik Suite underlie most of the property although rock exposures are poor comprising less than 5% of the area. Work completed in 2009 included mapping, and prospecting. Initially BCG had purposed a MMI™ geochemical survey consisting of 10 lines for a total of 15km, however the program was reduced to mapping and prospecting due and priority was given to other properties.

## **2.0 INTRODUCTION AND TERMS OF REFERENCE**

The BC Claim group is owned 100 % by Shawn Ryan of Dawson City Yukon subject to an option agreement with BCG whereby BCG can earn a 100% interest in the BC Claims as part of a larger 845 claims located in the Carmacks copper-gold belt which hosts the Minto and Williams Creek deposits.

The purpose of this report is to summarize the work completed during the months of July to September which consisted of mapping, and prospecting done as a follow up to an airborne magnetic survey completed in 2007.

## **3.0 RELIANCE ON OTHER EXPERTS**

This report is based upon the results of fieldwork partially supervised by the author, publicly-available assessment reports, and certain private reports prepared for and provided by BCG. There is no reason to believe that any of this information is incorrect.

The author has relied on information provided by the Yukon Mining Recorder to describe the mineral tenure status of the property and believes, to the best of his knowledge, that this information is correct.

## **4.0 PROPERTY DESCRIPTION AND LOCATION**

The BC mineral claims are located 25 kilometres NW of Carmacks and 8.5 km ESE of the Carmacks Copper deposit. The BC claims adjoin the WS and ICE claims, which are also under option by BCG (Figs. 1, 2). The property falls within the Whitehorse Mining District on NTS map sheets 115I/07 and is centred at an easting of 419 500 and a northing of 6 905 000. The claims cover favourable geology and regional airborne magnetic anomalies and regional stream sediment anomalies that are prospective for Minto-Williams Creek style copper-gold mineralization. The mineral claims are registered to Shawn Ryan of Dawson City, Yukon and are under an option agreement to BCG.

In accordance with the Yukon Quartz Mining Act, yearly extensions to the expiry

dates of quartz claims are dependent upon conducting \$100 of work per claim or paying the equivalent cash in lieu of work. Work must be filed in the year the work was completed. Excess work can be used to extend expiry dates up to maximum of four years. Assessment costs can be applied to adjoining claims through filing grouping certificates. Filing a statement of work and costs and submission of an assessment report to the Whitehorse Mining Recorder verifying completion of the work, are also required no later than six months after the anniversary date of the claim.

The claims are located within the Traditional Territory of the Little Salmon Carmacks First Nation, which has a land claim settlement Agreement under the Yukon Umbrella Final Agreement.

## **5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY**

Access to the property is by helicopter from Carmacks. Low precipitation and a wide temperature range characterize the climate. Winters are cold, and temperatures of -30° C to -40° C are common. Summers are moderately cool to hot, with daily highs of 15° C to 30° C. The Town of Carmacks is the closest centre for obtaining groceries, fuel, accommodation and some limited rental and contracted exploration services. Trans North Helicopters maintains a summer helicopter base at Carmacks

## **6.0 HISTORY**

The area covered by the BC claims has seen some prior reconnaissance exploration work as part of the property work around the Williams Creek deposit primarily by Hudson Bay Exploration, however there are no known historical showing.

In 2007 BCGold completed an airborne magnetic and radiometric survey with 200m spaced lines was flown over the entire belt claims.

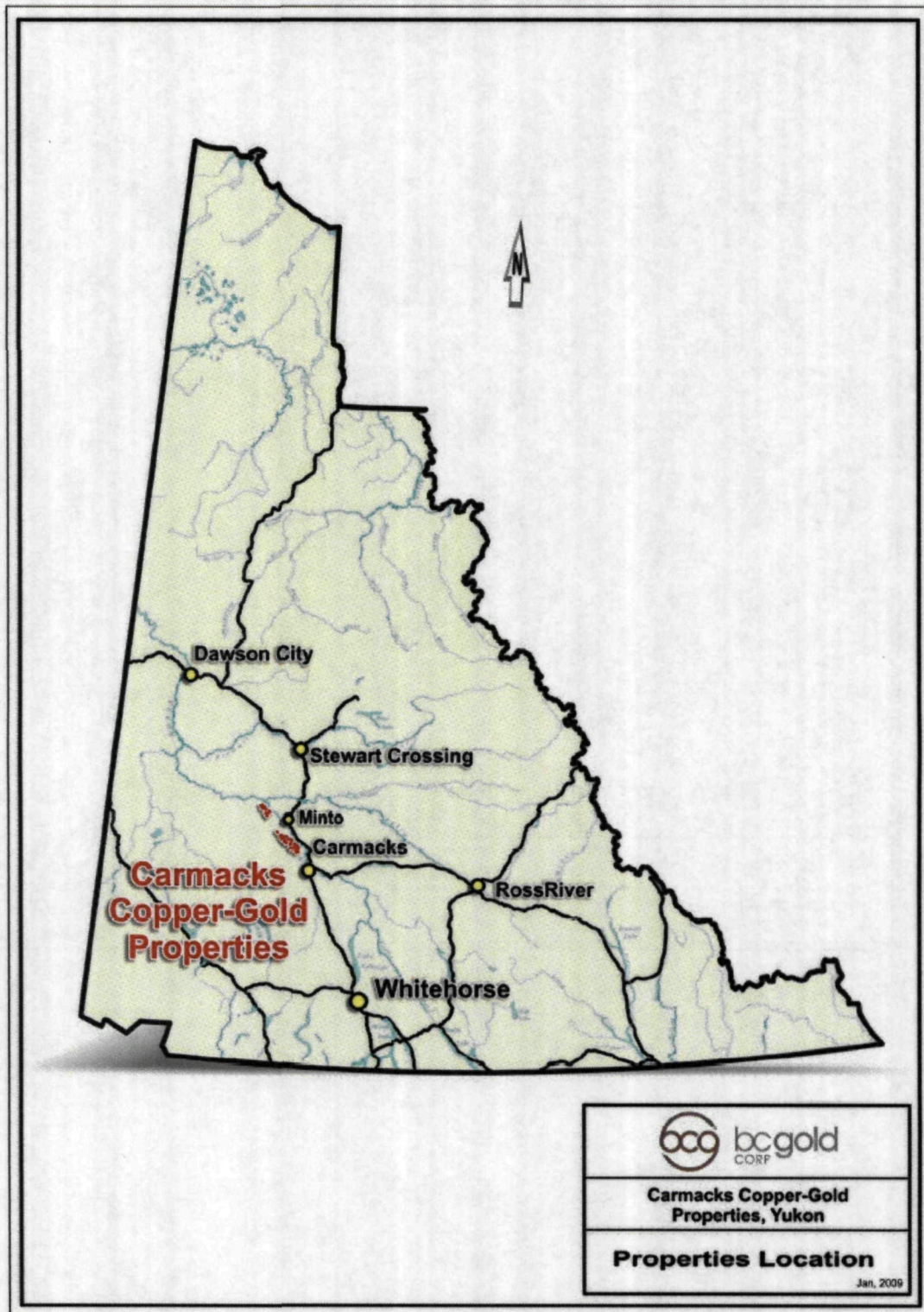


Figure 1: Carmacks area location map.

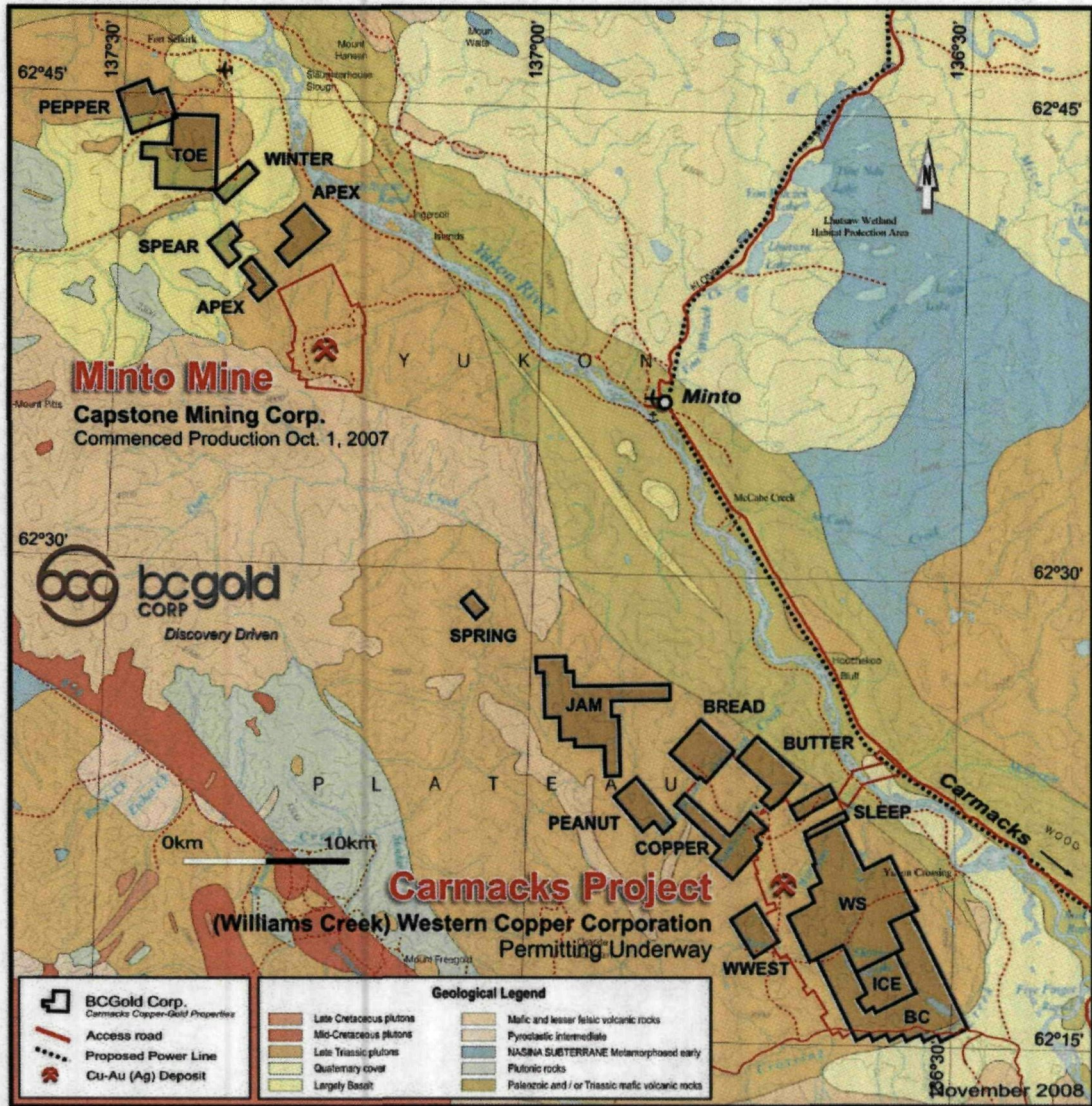


Figure 2: Carmacks regional geology and claim location map.



## **7.0 GEOLOGICAL SETTING**

### **7.1 Regional Geology**

The BC claims are located approximately 8.5 kilometres South of the Williams Creek (Carmacks Copper Corp) copper-gold deposits. This area of the Yukon is bounded by the Stikinia Terrane rocks to the east, Yukon Tanana Terrane rocks to the north and the Coast Plutonic Complex rocks to the west. The Minto and Williams Creek copper-gold deposits are hosted within foliated biotite rich granodiorite and granitic rocks of the early Jurassic Aishihik Suite.

### **7.2 Property Geology**

The BC claims are located south of the Williams Creek deposit and north of the Freegold Road. Rocks underlying the property are primarily foliated to non-foliated hornblende-biotite granodiorite with aplite dykes. Traces of malachite were noted in a few locations. Magnetite and 1-2% epidote were noted in a number of locations. Outcrop is scarce (< 5%) and normally confined to rounded ridge tops and stream cuts.

## **8.0 EXPLORATION PROGRAMS**

### **8.1 Mapping and Prospecting**

The mapping and prospecting program (Fig. 3) were in conducted as a follow up to an airborne magnetic survey done in 2007 (Fig. 4). Multiple traverses were done aimed at looking for mineralization in areas of magnetic highs and where magnetic lineaments intersected (Fig. 5). The Jurassic Granite Mountain batholith underlying the property consists of from youngest to oldest:

- i) Granitic Pegmatite Dikes which consist of quartz and feldspar with accessory micas and are commonly less than a meter in width.
- ii) Aplite Dikes which are fine grained and consist of quartz and feldspar with accessory micas and vary from less than a meter in width to a couple of meters in some cases.
- iii) Biotite-Hornblende Granodiorite is common. It is medium to coarse grained; equigranular with 5-10% porphyritic clear grey quartz.
- iv) Kspar Megacrystic Granodiorite: This unit was seen in drill core and rarely mapped in the field, however it's distinct characteristic is large K feldspar crystals that can be up to 3cm in length.
- v) Granular Mafic rich rock; fine to medium grained; consisting of 60% mafics with a variable foliated to gneissic texture.

No mineralization or outcrops worth sampling were found.

## **9.0 RESULTS AND CONCLUSIONS**

The Jurassic Granite Mountain batholith underlying the property consists of the following descriptions which are ordered youngest to oldest:

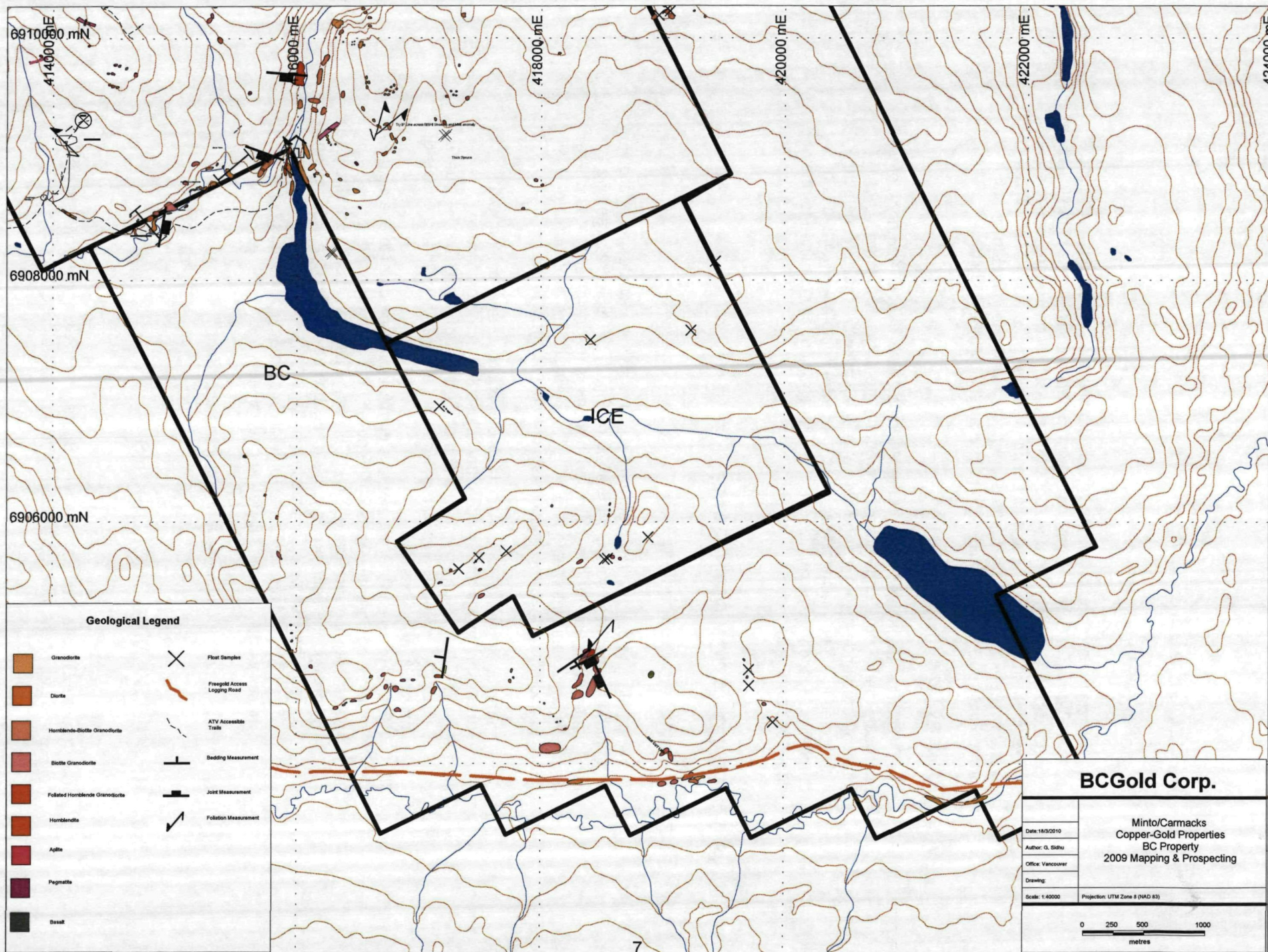


Figure 3: 2009 Mapping and Prospecting Results

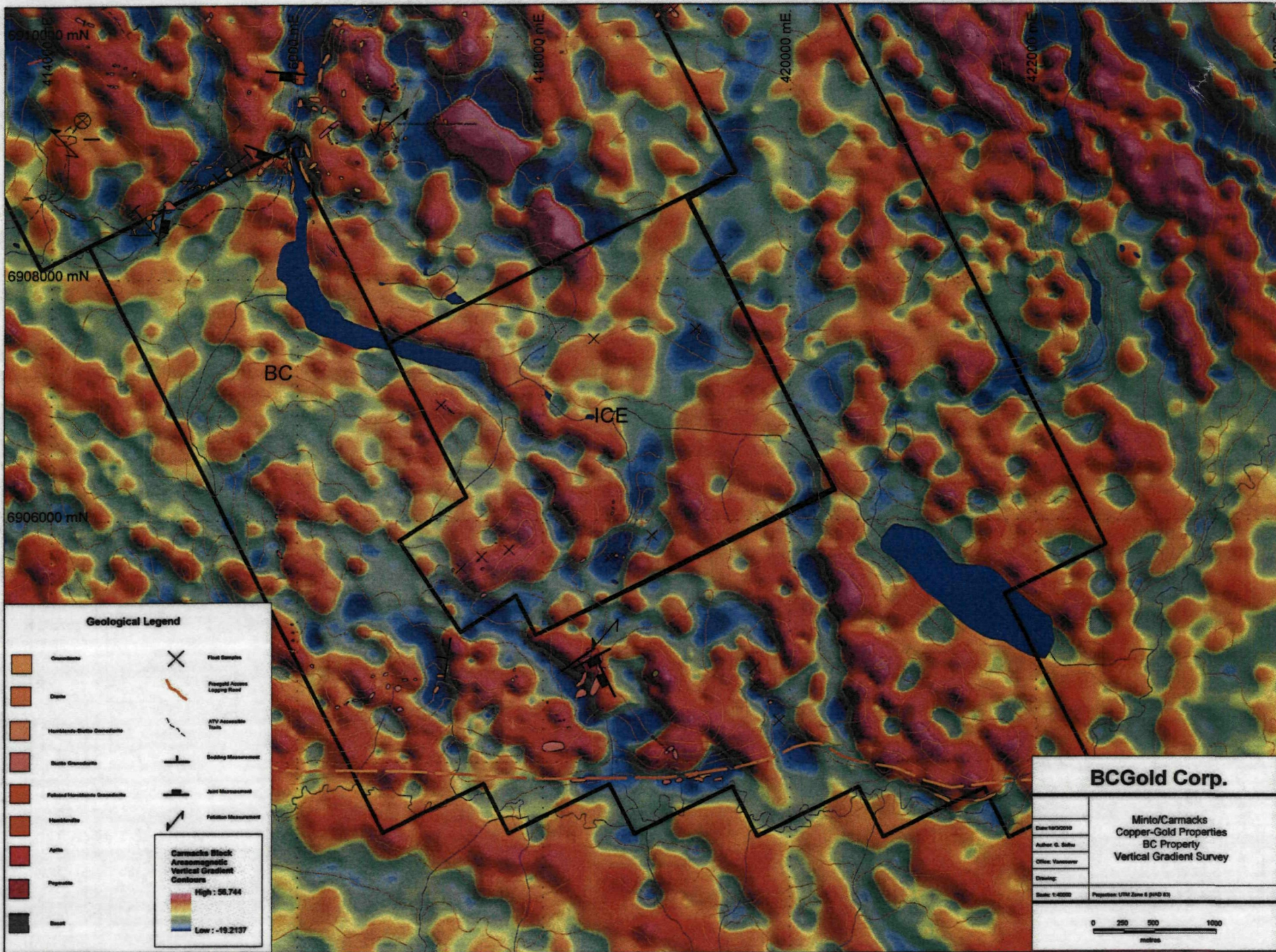
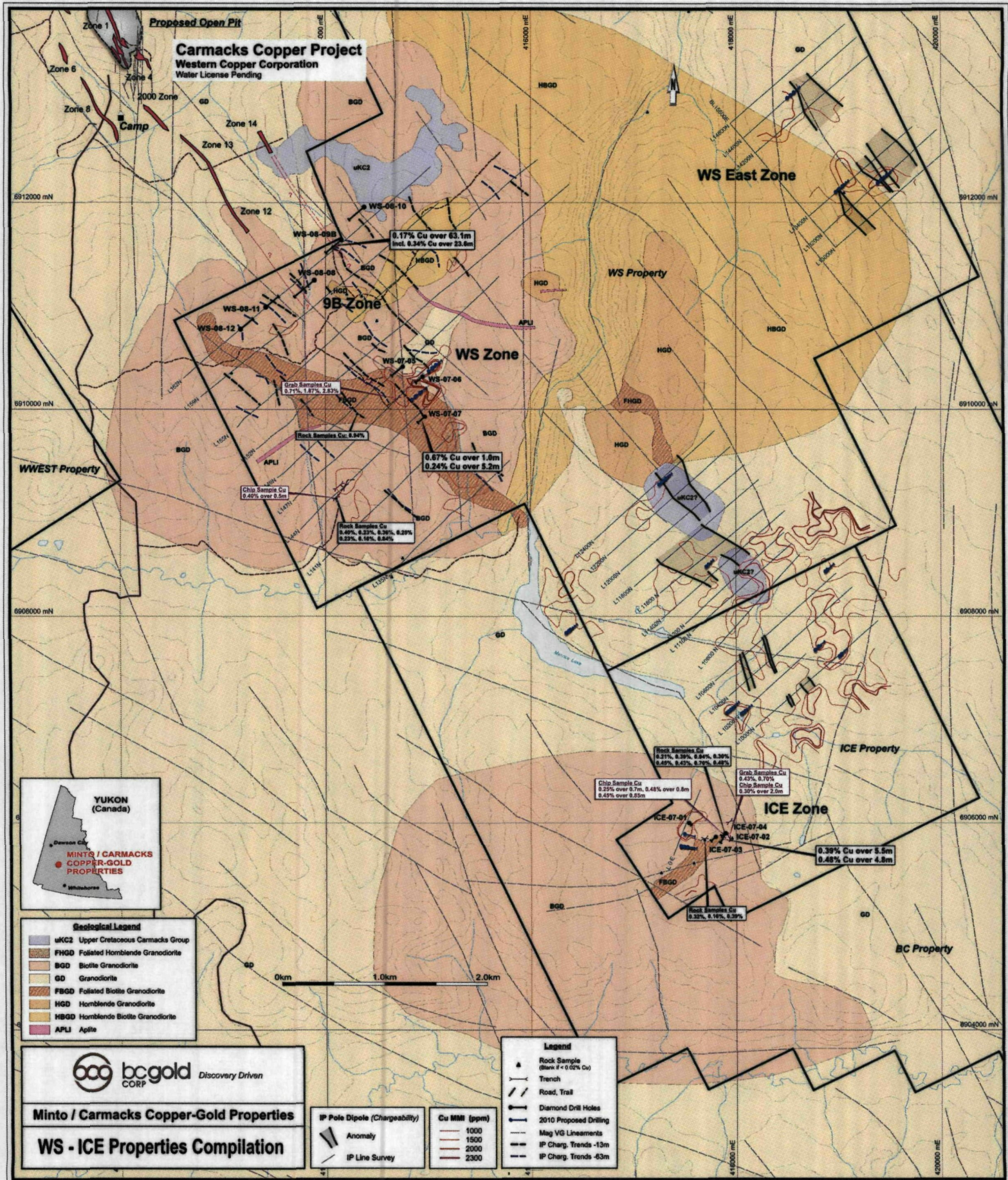


Figure 4: 2007 Airborne Vertical Gradient Magnetic Survey



**Carmacks Copper Project**  
Western Copper Corporation  
Water License Pending

Proposed Open Pit

9B-Zone

WS Zone

WS East Zone

ICE Zone



**Geological Legend**

uKC2	Upper Cretaceous Carmacks Group
FHGD	Foliated Hornblende Granodiorite
BGD	Biotite Granodiorite
GD	Granodiorite
FBGD	Foliated Biotite Granodiorite
HGD	Hornblende Granodiorite
HBGD	Hornblende Biotite Granodiorite
APLI	Aplite

**bcgold** Discovery Driven  
CORP

**Minto / Carmacks Copper-Gold Properties**

**WS - ICE Properties Compilation**

**IP Pole Dipole (Chargeability)**

Symbol	Anomaly
Symbol	IP Line Survey

**Cu MMI (ppm)**

Line Style	1000
Line Style	1500
Line Style	2000
Line Style	2300

**Legend**

Symbol	Rock Sample (Blank # = 0.02% Cu)
Symbol	Trench
Symbol	Road, Trail
Symbol	Diamond Drill Holes
Symbol	2010 Proposed Drilling
Symbol	Mag VG Lineaments
Symbol	IP Chrg. Trends -13m
Symbol	IP Chrg. Trends -63m

8912000 mN

8910000 mN

8908000 mN

8906000 mN

8904000 mN

416000 mE

418000 mE

420000 mE

416000 mE

420000 mE

0km 1.0km 2.0km

- vi) Granitic Pegmatite Dikes which consist of quartz and feldspar with accessory micas and are commonly less than a meter in width.
- vii) Aplite Dikes which are fine grained and consist of quartz and feldspar with accessory micas and vary from less than a meter in width to a couple of meters in some cases.
- viii) Biotite-Hornblende Granodiorite is common. It is medium to coarse grained; equigranular with 5-10% porphyritic clear grey quartz.
- ix) Kspar Megacrystic Granodiorite: This unit was seen in drill core and rarely mapped in the field; however its distinct characteristic is large K feldspar crystals that can be up to 3cm in length.
- x) Granular Mafic rich rock; fine to medium grained; consisting of 60% mafics with a variable foliated to gneissic texture.

No mineralization or outcrops worth sampling were found.

## 10.0 RECOMMENDATIONS

The following recommendations should be considered based on the recent and past exploration work:

- i) Two MMI grids, locations "A" and "B" should be the next step on this property. Grid "A" should be setup to establish a possible continuation of copper geochemical anomalies from the ICE property to BC where we also have multiple aeromagnetic lineaments intersecting and mineralization favouring foliated granodiorite mapped in (Fig. 5). Grid "B" should be conducted over the airborne magnetic survey done in 2007 (Fig. 4) shows a large total field magnetic high in the SE corner of the property. Work in the area has shown that magnetic highs are related to mineralization.