

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

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

<b>TITLE OF REPORT [type of survey(s)]</b> 2007 Exploration at the Carbo Property	<b>TOTAL COST</b> \$ 34,086.36
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AUTHOR(S) Michael Guo and Jody Dahrouge. SIGNATURE(S) \_\_\_\_\_

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) \_\_\_\_\_ YEAR OF WORK 2007

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

PROPERTY NAME Carbo1, Carbo 2, Carbo 3 and Carbo West

CLAIM NAME(S) (on which work was done) 515430, 515432, 515433, and 536347

COMMODITIES SOUGHT Niobium and Rare Earths

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 093J 08; 093J 09

MINING DIVISION Kamloops NTS 83 D/ 06

LATITUDE 54 ° 30 ' \_\_\_\_\_ " LONGITUDE 120 ° 03 ' \_\_\_\_\_ " (at centre of work)

OWNER(S)

1) Commerce Resources Corp 2) \_\_\_\_\_

MAILING ADDRESS

600 - 789 West Pender Street

Vancouver, B.C. V6C 1H2

OPERATOR(S) [who paid for the work]

1) Commerce Resources Corp 2) \_\_\_\_\_

MAILING ADDRESS

600 - 789 West Pender Street

Vancouver, B.C. V6C 1H2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

The property is mainly underlain by upper Cambrian and lower Ordovician Kechika group limestone, marble, slate siltstone, argillite and other calcareous sediments. Several carbonatitic or syenitic intrusions are

Located. Fine-grained pyrochlore as a minor accessory mineral has been identified. Historic samples collected from surface outcrops have returned an average values of 0.1% Nb<sub>2</sub>O<sub>5</sub>

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS \_\_\_\_\_

15944, 16246

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric <u>5 km</u>		Carbo 1, Carbo 2 and Carbo West	\$ 8,521.59
Seismic _____			
Other _____			
Airborne _____			
GEOCHEMICAL			
(number of samples analysed for ...)			
Soil <u>54 - refractory trace elements (Group 4B)</u> *		Carbo 1, Carbo 2 and Carbo West	\$12,782.38
Silt _____			
Rock <u>16 outcrop (Group 4A, 4B)</u> *		Carbo 1, Carbo 2 and Carbo West	\$ 4,260.79
Other _____			
DRILLING			
(total metres; number of holes, size)			
Core _____			
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) <u>1:10000; 14.63 km<sup>2</sup></u>		All claims	\$ 8,521.59
PREPARATORY/PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST			\$34,086.36

\* Acme Analytical Labs Ltd.(Vancouver B.C.) Analytical packages- see report for details

**COMMERCE RESOURCES CORP.**

**2007 EXPLORATION  
AT THE CARBO PROPERTY**

EAST OF BEAR LAKE, BRITISH COLUMBIA  
(CARIBOO MINING DIVISION)

MINERAL TENURES

515430(Carbo1), 515432(Carbo2), 515433(Carbo3), 536347 (Carbo West)

Geographic Coordinates

54° 30' N  
120° 03' W

NTS Sheet 93J 08, 93J 09

Owner/Operator: Commerce Resources Corp.  
600, 789 West Pender Street  
Vancouver, B.C. V6C 1H2

Consultant: Dahrouge Geological Consulting Ltd.  
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Date Submitted: 2007 08 05

## TABLE OF CONTENTS

	<u>Page</u>
<b>1. INTRODUCTION</b> .....	<b>1</b>
<b>1.1 GEOGRAPHIC SETTING</b> .....	<b>1</b>
1.1.1 Location and Access .....	1
1.1.2 Topography, Vegetation and Climate .....	1
<b>1.2 PROPERTY</b> .....	<b>3</b>
<b>1.3 HISTORY AND PREVIOUS INVESTIGATIONS</b> .....	<b>3</b>
<b>1.4 PURPOSE</b> .....	<b>4</b>
<b>2. REGIONAL GEOLOGY</b> .....	<b>4</b>
<b>3. PROPERTY GEOLOGY</b> .....	<b>4</b>
<b>3.1 STRATIGRAPHY, STRUCTURE AND LITHOLOGY</b> .....	<b>4</b>
<b>3.2 MINERALIZATION</b> .....	<b>5</b>
<b>4. 2006 EXPLORATION</b> .....	<b>5</b>
<b>4.1 SOIL SAMPLING</b> .....	<b>5</b>
<b>4.2 ROCK SAMPLING</b> .....	<b>6</b>
<b>5. DISCUSSION AND CONCLUSIONS</b> .....	<b>7</b>
<b>6. REFERENCES</b> .....	<b>8</b>

### LIST OF TABLES

Table 1.1: Carbo Property .....	3
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### LIST OF ILLUSTRATIONS

	<u>Page</u>
Figure 1.1 Location Map .....	F1
Figure 1.2 Claim Map .....	F2
Figure 2.1 Regional Geology .....	F3
Figure 3.1 Local Geology .....	F4
Figure 4.1 Sample Locations .....	F5
Figure 4.2 Nb Soil Geochemistry .....	F6
Figure 4.3 Ce Soil Geochemistry .....	F7
Figure 4.4 Sr Soil Geochemistry .....	F8
Figure 4.5 Ba Soil Geochemistry .....	F9
Figure 4.6 Au Soil Geochemistry .....	F10
Figure 4.7 Cu Soil Geochemistry .....	F11
Figure 4.8 Zn Soil Geochemistry .....	F12
Figure 4.9 Au anomaly verification .....	F13
Figure 4.10 Scintillometer Survey .....	In Pocket
Figure 4.11 Nb Rock Geochemistry .....	F14
Figure 4.12 Th Rock Geochemistry .....	F15

## LIST OF APPENDICES

	<u>Page</u>
Appendix 1	Itemized Cost Statement.....A1
Appendix 2	Location of Soil Samples.....A2
Appendix 3	Location of Rock Samples.....A3
Appendix 4	Acme Analytical Results.....A4
Appendix 5	Statement of Qualifications.....A5

## 1.

## INTRODUCTION

The Carbo Property encompasses a series of Niobium and Rare Earth element bearing carbonatites and syenites, located about 80 km northeast of Prince George and 50 km east of Bear Lake, British Columbia. Commerce Resources Corporation acquired the current claims, Carbo1, Carbo2, Carbo3 and Carbo West during 2005 and 2006.

Teck Corporation conducted geochemical and geophysical surveys in 1986 and 1987, no further work was conducted, and the property was subsequently dropped. During 2006, Dahrouge Geological Consulting Ltd., on behalf of Commerce Resources Corp, conducted fieldwork between May 30, 2006 and June 16, 2006. The exploration included the collection of 291 soil samples, 40 rock samples, and 12.5 km geophysical surveys. From June 11, 2007 to June 16, 2007, the follow up exploration work was conducted by Dahrouge Geological Consulting Ltd. The purpose of the work was to verify a previously identified Au anomaly in soil and locate the source of high Count Per Second (CPS) zones identified in 2006.

Throughout this report, attitudes of bedding and other planar features are given as  $A^\circ/B^\circ$  SW, where  $A^\circ$  is the azimuth of the strike and  $B^\circ$  is the amount of dip in the direction indicated. A magnetic declination of  $19^\circ 48'$  was used.

### 1.1 GEOGRAPHIC SETTING

#### 1.1.1 Location and Access

The Carbo Property is located southeast of Whicheeda lake between Wicheika Creek and Parsnip River, 80 km northeast of Prince George and 50 km east of Bear Lake, British Columbia. Most of the property is within NTS map area 93J/08, only a small part of claim Carbo3 lies within 93J/09 (Fig. 1.1, Fig. 1.2). The property is centered at approximately  $54^\circ 30'$  N latitude and  $120^\circ 03'$  W longitude.

Bear Lake is accessible from B.C. Highway 97 (Fig. 1.1), and the property can be reached from Bear Lake along local 700 gravel road which branches from Highway 97 at the town. Trails and logging roads provide access to the northeast and southwest edges of the property. The main line of the Canadian National Railway passes through Bear Lake which is 50 km away from the property. Limited supplies and accommodations are available at Bear Lake.

#### 1.1.2 Topography, Vegetation and Climate

The Carbo Property is between 900 m and 1520 m elevation above sea level. Slopes are moderately steep and typically covered by thick undergrowth consisting of buck brush and devil's club at lower elevations. Areas along the ridge are covered by alder and white pine.

## 1.2 PROPERTY

The Carbo Property is held 100 percent by Commerce Resources Corp and encompasses about 14.63 sq. km, situated within Cariboo Mining Division (Fig. 1.2; Table 1.1). Throughout this report the term Carbo Property refers to the 4 mineral claims, Carbo1(515430), Carbo2(515432) and Carbo3(515433) and 536347 (Carbo West).

**Table 1.1: List of Mineral Claims**

Tenure Number	Claim Name	Map Number	Good To Date	Mining Division	Area (ha)
515430	Carbo1	093J09	2012/DEC/31	CARIBOO	469
515432	Carbo2	093J09	2012/DEC/31	CARIBOO	469
515433	Carbo3	093J09/08	2012/DEC/31	CARIBOO	187
536347	Carbo West	093J09	2007/JUNE/28	CARIBOO	338

## 1.3 HISTORY AND PREVIOUS INVESTIGATIONS

In 1961, the Geophysics Division of the Geological Survey of Canada completed a 1:63360 scale aeromagnetic survey across parts of BC. A significant magnetic anomaly was identified at the Carbo claims (GSC, Geophysics Paper 1546, 1964). In 1976 and 1977 Kol Lovang prospected the area and staked two claims on minor base metal showings, but no follow-up was reported and the claims were permitted to lapse. Later assaying of Lovang's samples by Teck Corporation indicated anomalous niobium values (Betmanis A.I., 1987). During 1986 and 1987, Teck Corporation conducted an exploration program at the Carbo Property and adjacent area. The exploration included a stream silt geochemical survey, geological mapping, geochemical soil sampling, magnetic survey and limited trenching. The exploration located the main carbonatitic and syentitic intrusions with high niobium concentration and REE anomalies. In 1987, Mader conducted a field survey which focused on the carbonatites and related rocks. They presented a more detailed description and map of the carbonatites.

Based on the historic information, Dahrouge Geological Consulting Ltd conducted a detailed soil sampling, scintillometer and magnetometer survey in 2006. A baseline, about 8.3 km long, was located at azimuth 307°. About 44.4 km of Cross-lines with 150 m spacing and 50 meters station intervals were marked. Soil samples were collected every 50 meter throughout the grid. Magnetometer and scintillometer readings were measured at 12.5 m intervals. In total, 291 soil samples and 40 rock samples were collected and 12.5 km of scintillometer and magnetometer surveys were conducted during the 2006 exploration program.

## **1.4 PURPOSE**

The exploration described herein, including soil geochemistry sampling, rock sampling, and scintillometer survey, was used to verify a gold anomaly in soil and locate the high CPS zones identified in 2006. Some alkaline intrusion outcrops in existing anomalous area were located and sampled.

## **2. REGIONAL GEOLOGY**

According to the geological map of the McLeod Lake Area (GSC Map 1204A) and the 1:250,000 BC Digital Geological Map (Version 1.0, 2005), the property and adjacent area are mainly underlain by upper Cambrian and lower Ordovician Kechika group limestone, marble, slate siltstone, argillite and other calcareous sediments. Generally, lithological attitudes strike in 120° to 140° with steep dips to both east and west. Several faults have been mapped, and generally parallel to Wicheika Creek (40°/50° NW). One fault in the area strikes northeastly and later than the northwesterly faults (Fig. 2.1).

## **3. PROPERTY GEOLOGY**

During 1986, geology in parts of the property (much of the Carbo2 and Carbo3) was mapped by Teck Corporation at a scale of 1:5000. Descriptions of the property geology, as described below, are from Betmanis (1987).

### **3.1 STRATIGRAPHY, STRUCTURE AND LITHOLOGY**

The Carbo2 and Carbo3 properties are underlain by interbedded limestone with calcareous argillites and phyllites. The lithologies to the northeast are mainly massive white limestones interbedded with less massive and thinner bedded medium to dark-grey limestone. Towards the southwest, the limestone units become more silty. Lithologies in southwest part of the property are interbedded, light-grey, calcareous argillites and weakly calcareous phyllites. The argillites and phyllites are locally ferruginous.

Several dike or sill-like alkaline intrusions were identified by Teck Corporation (Betmanis, A.I. 1987) (Fig.3.1). The intrusions are carbonatitic or syenitic and varying composition and thickness. One intrusive was traced intermittently by float and outcrop for a distance 2700



metres (Betmanis, A.I,1987). The alkaline intrusions are coarse to medium-grained, generally quartz free, and contain feldspar, carbonate, pyroxene and micas. Pyrite is a common accessory mineral. Fine-grained pyrochlore as a minor accessory mineral has been identified by scanning electron microanalysis (Betmanis, A.I 1987).

Several faults were identified by the displacement of sedimentary beds, and by drainage patterns and local depressions in topography. The faults are moderate to steep.

### **3.2 MINERALIZATION**

The host rocks to the mineral occurrences on the Carbo Property are carbonatites and syenites. Historic samples collected from surface outcrops have returned an average values of 0.1% Nb<sub>2</sub>O<sub>5</sub>, and samples from pit-5 to pit-6 returned up to 0.95% Nb<sub>2</sub>O<sub>5</sub>, It indicates that the better grades are from sections of the intrusive with fine-grained, black gouge or whitish clay on fractures (Betmanis,1987). Rock samples collected from the historic open pits and trench in 2006 return up to 3257.5 ppm Nb , Several alkaline intrusions with high CPS readings were located in Carbo1, Carbo 2 and Carbon West, surface outcrops from the areas returned up to 1526 ppm Nb (Michael Guo, 2006).

## **4. 2007 EXPLORATION**

### **4.1 SOIL SAMPLING**

In total, 54 soil samples were collected during 2007. Sample were collected from grid lines 3150E and 3750E at 50 meter interval (Fig.4.1) and were centred around soil samples 24204, which previously returned more than 1 g/t Au (Fig 4.9) . All samples were from B horizon with depth ranges from 0.1 to 1 m, but most of the samples are between 0.2 to 0.5 m in depth. Sample locations and descriptions are in Appendix 2.

All samples were analyzed at Acme Laboratories, Vancouver using Group 4B(Full Suite): rare earth and refractory elements are determined by ICP mass spectrometer following a lithium metaborate/tetraborate fusion and nitric acid digestion of a 0.2 g sample. In addition a separate 0.5 g split is digested in aqua regia and analysed by ICP-Mass spectrometer to report precious and base metals (Appendix 4). Repeat analyses were completed for random samples as was the periodic analyses of a standard.

Soil geochemistry maps (Figs. 4.2 to 4.8) were prepared for Nb, Ce, Sr, Ba, Au, Cu and Zn. Previous work indicates that anomalous niobium soil values are closely related to the location of underlying carbonatite, and indicated very little lateral dispersion in soils (Betmanis, A.I,1987).

The Nb anomaly suggests there are some potential carbonatitic or syenitic intrusions in the anomalous area of Carbo West(Fig. 4.2).

Barium moderately correlates with Niobium, but is generally widely dispersed than Niobium. Cerium and Strontium only partially correlate with Niobium.

According to the 2006 exploration, one sample from Carbo1 property shows a strong anomalous Au value (1,739.9 ppb). In order to verify this Au anomaly, 25 soil samples at 12.5 m spacing and six rock samples were collected and analyzed for Au, one soil sample was collected at the sample location. The results exclude the potential Au mineralization at that location. Twenty soil samples return Au values of 0.5 to 10.2 ppb, average of 1.3 ppb.

## **4.2 ROCK SAMPLES**

A total of 16 rock samples from outcrops were collected during the 2007 exploration (Fig.4.1)

All rock samples were analyzed at Acme Laboratories, Vancouver using Group 4B(Full Suite) and Group A (intrusive rocks only): analysis method for Group B is same as the method of analyzing soil sample, for Group 4A 0.2 g sample analysed by ICP-emission spectrometry following a lithium metaborate/ tetraborate fusion and dilute nitric digestion. Results are in Appendix 4.

Five alkaline intrusive rocks contain high REE and Niobium concentrations. Total REE +Y is between 694.95 to 1595.66 ppm, and average is 1208.92 ppm. Niobium contents range from 532.3 to 731.6 ppm with an average value of 607.98 ppm.

Eleven sedimentary rocks which mainly are phyllites were also analyzed, Niobium contents vary from 18.4 to 819.1 ppm with an average value of 173.6 ppm. Six samples collected around Au anomaly did not return any significant Au enrichment. The Au contents ranged from 0.5 to 1.3 ppb.

## **4.3 GEOPHYSICAL SURVEYS**

A total of 5 Km of Scintillometer surveys were completed at 12.5 meter stations along grid lines 3150, 3750, 3900 and 4200. A GR-110G/E portable Gamma Ray Scintillometer was used for the survey.

Moderately to strongly radioactive highs are indicated in Carbo1, Carbo 2 and Carbo West claims, with the highest readings up to 8200 CPS (Fig. 4.10). The elevated radioactivity moderately correlates with Niobium. The cause of the radioactive high appears to result from

high content of thorium, for example, the rock sample from the location with 8200 CPS returned 1522.5 ppm Thorium.

Sample 28531 from Carbo1 shows Pb and Zn mineralization, the Pb and Zn contents are 3027 and 2377 ppm, respectively. This sample also contained 31025 ppm Barium.

## 5. DISCUSSION AND CONCLUSIONS

Exploration conducted during 2007 confirms the existence and extent of the alkaline intrusions in Carbo 1, Carbo 2 and Carbo West Claims, but Niobium from the surface sample rocks are lower than those sample from the historic trenches. Five samples of alkaline intrusions returned 532.3 to 731.6 ppm Nb with an average of 608 ppm Nb.

One sample from Carbo 2 claim shows high Pb and Zn contents (Pb = 3026.9 ppm, Zn = 2377 ppm). This sample also contained 31025 ppm Barium

Detailed soil and sampling was conducted to verify the high Au assay result at one location found in 2006, the result excludes Au mineralization in this area. A soil sample from the same location shows only background Au.

Alkaline intrusions at the property have a higher radiometric background, with up to 8200 CPS. Assay results indicate that the radioactivity is due to a high thorium content.

**REFERENCES****6.**

GSC, (1964), Geophysics paper 1546. Aeromagnetic Series, Hominka River, B.C.

GSC, (1969), Map 1204A, McLeod Lake, British Columbia.

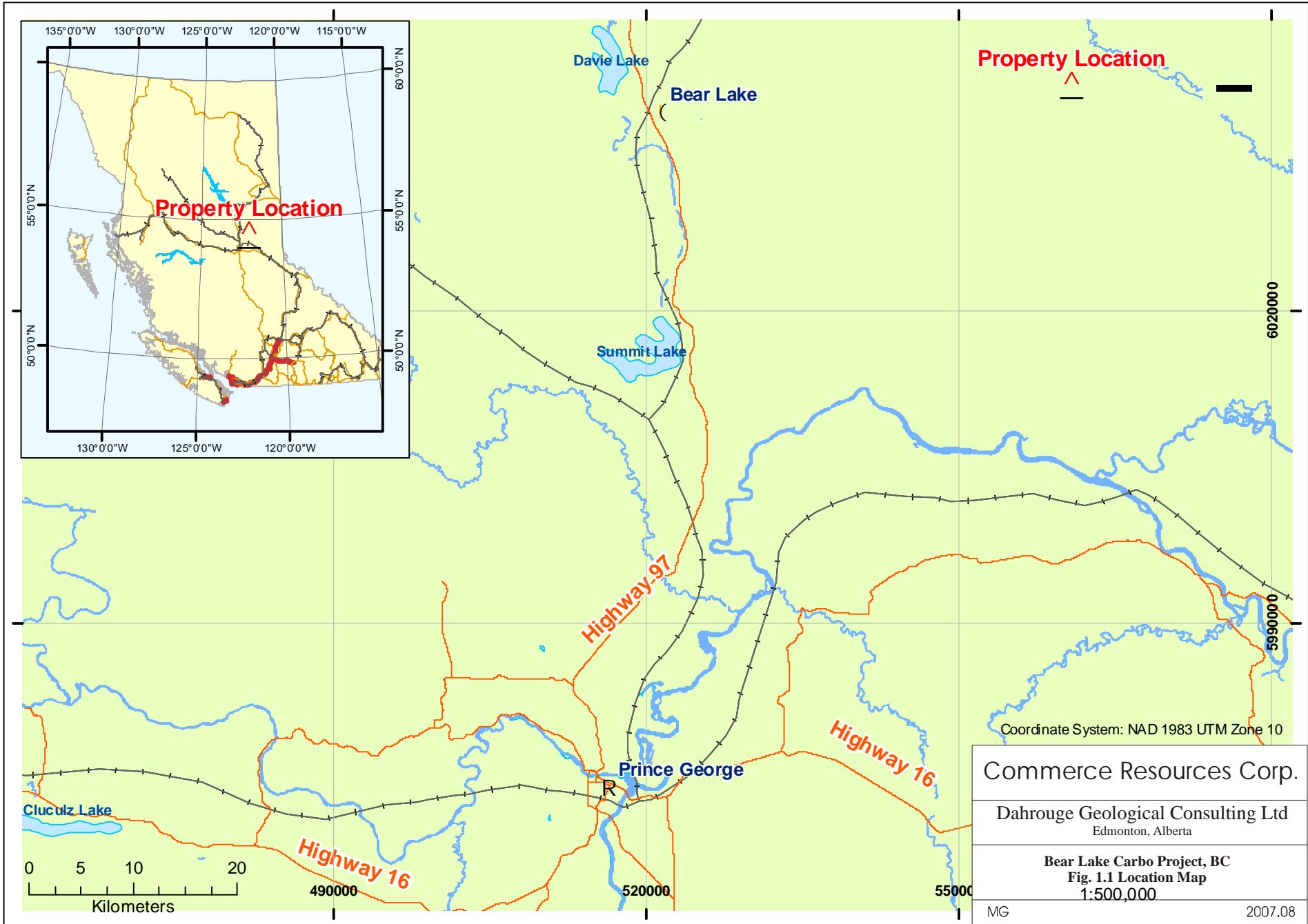
Guo, M and Dahrouge J. (2006), 2006 Exploration at the Carbo Property

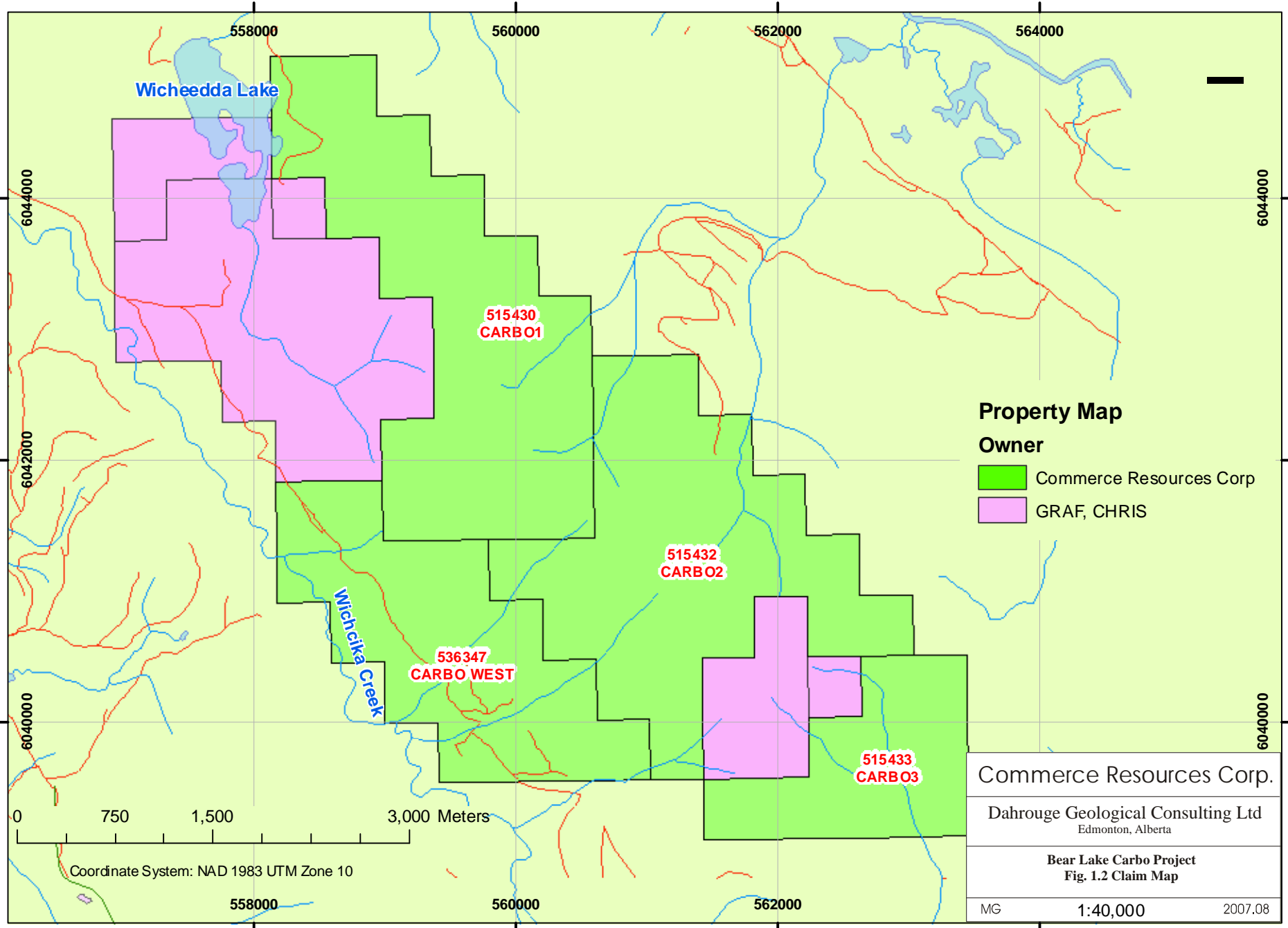
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Meyer, W. (1988). Report on Treching, Stream Silt Concentrate and Soil Sampling on the George Group, Cariboo Mining Division, B.C.; Min. Energy, Mines Petr. Res. Ass. Rept. 16264,

Mader U.K. and Greenwood H.(1988) Carbonatites and Related Rocks of the Prince and George Claims, Northern Rocky Mountains. B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1987, Paper 1988-1, Pages 375-380

Jennifer Pell, (1994).Carbonatites, Nepheline Syenites, Kimberlites and Related Rocks in British Columbia. B.C. Ministry of Energy, Mines and Petroleum Resources, Bulletin 88, Pages 11-14





**Property Map**

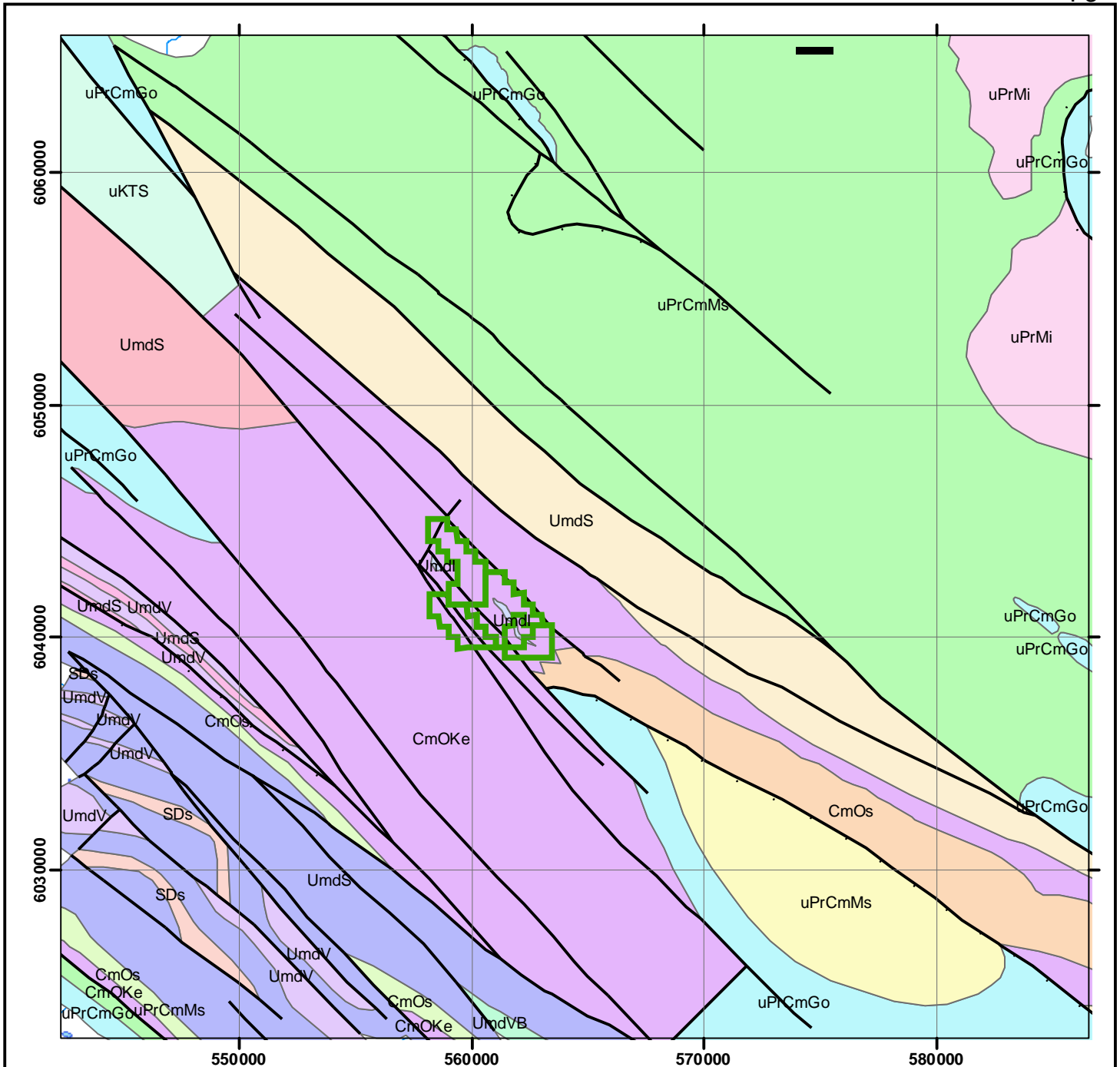
- Owner**
- Commerce Resources Corp
  - GRAF, CHRIS

Commerce Resources Corp.

Dahrouge Geological Consulting Ltd  
Edmonton, Alberta

**Bear Lake Carbo Project**  
**Fig. 1.2 Claim Map**

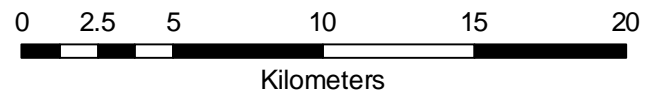
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Simplified after 1:250,000 BC Digital Geological Map

**Legend**

- uKTS Cenozoic - Reynolds Creek Succession coarse clastic sedimentary rocks
- UmdV Permian Unnamed rhyolite, felsic volcanic rocks
- UmdS Carboniferous to Permian Unnamed carbonate rock, slate, silts
- UmdVB Devonian Unnamed basaltic volcanic rocks
- UmdS Devonian Unnamed carbonate rock, slate, silts
- UmdI Devonian Unnamed syenitic to monzonitic rocks
- SDs Silurian to Devonian Tapioca Sandstone undivided sedimentary rocks
- CmOs Ordoevician Skoki Formation dolomitic carbonate rocks
- CmOs Lower Ordoevician Monkman Quartzite quartzite, quartz arenite sedimentary rocks
- UmdS Cambrian to Devonian Unnamed carbonate rock, slate, silts
- CmOKe Cambrian to Ordoevician Kechika Group limestone, marb, slate
- uPrCmGq Cambrian Gog Group quartzite, quartz arenite sedimentary rocks
- UmdS Cambrian Unnamed carbonate rock, slate, silts
- uPrMi Upper Proterozoic Miette Group dolomitic carbonate rocks, sedimentary rocks
- uPrCmMs Upper Proterozoic Misinchinka Group quartzite, quartz arenite, greenstone
- uPrCmM Upper Proterozoic to Cambrian Misinchinka Group quartzite, quartz arenite



**Regional Faults**

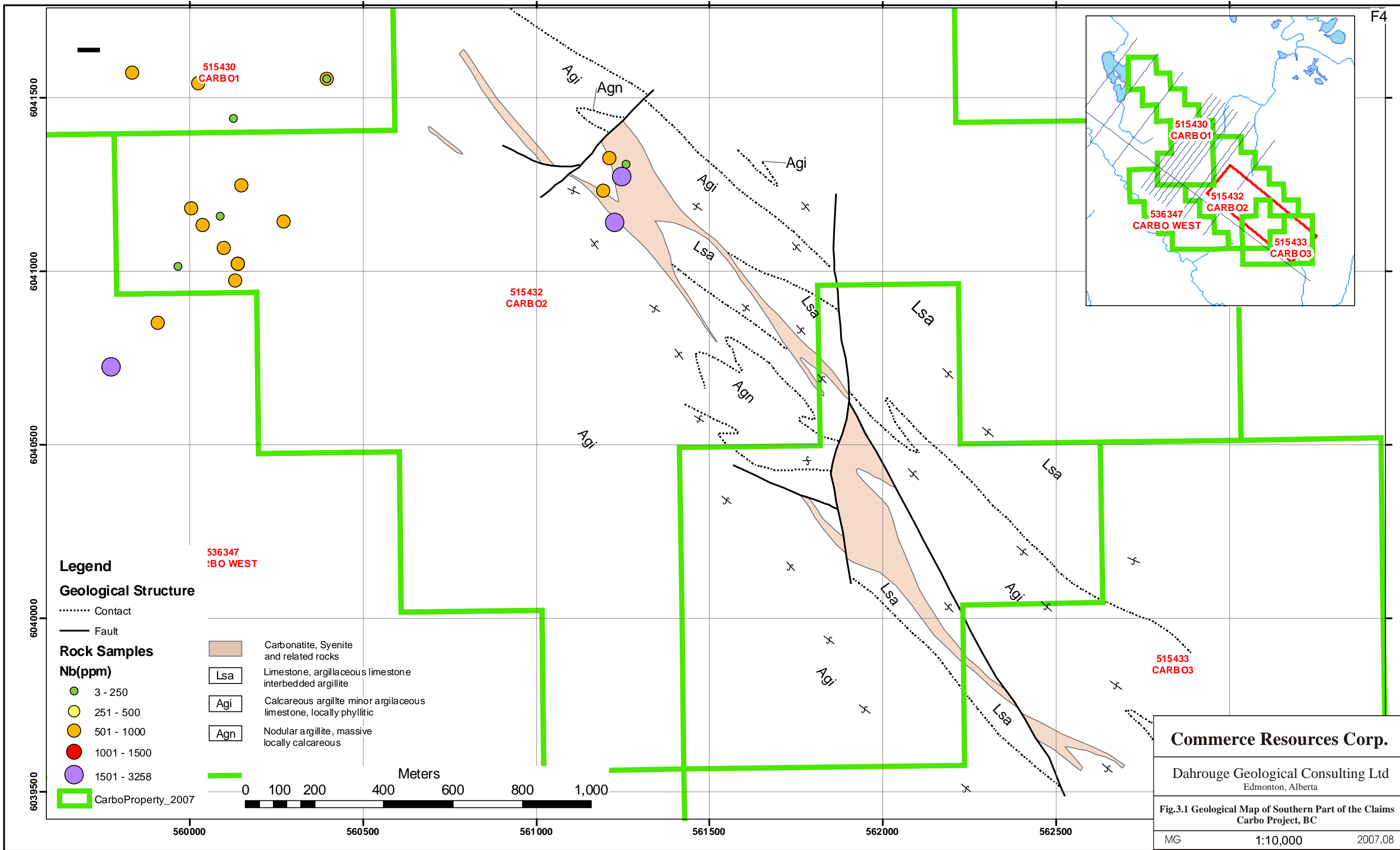
- Fault
- Thrust
- Carbo Properties

NAD83 UTM 10

**Commerce Resources Corp.**

Dahrouge Geological Consulting Ltd  
Edmonton, Alberta

**Fig. 2.1 Regional Geology, Carbo Project, BC**



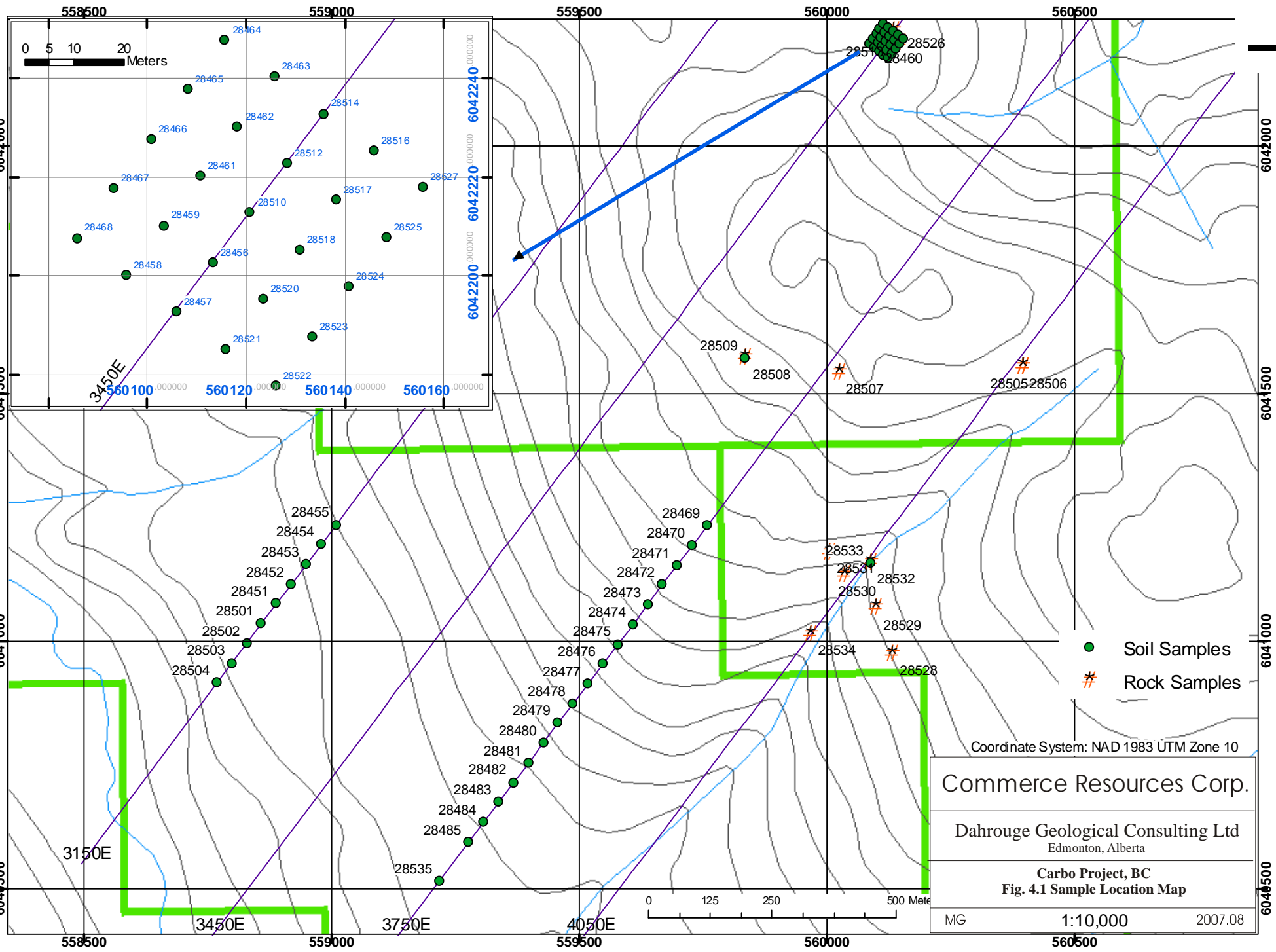
**Commerce Resources Corp.**

Dahrouge Geological Consulting Ltd  
Edmonton, Alberta

**Fig.3.1 Geological Map of Southern Part of the Claims Carbo Project, BC**

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- Soil Samples
- \* Rock Samples

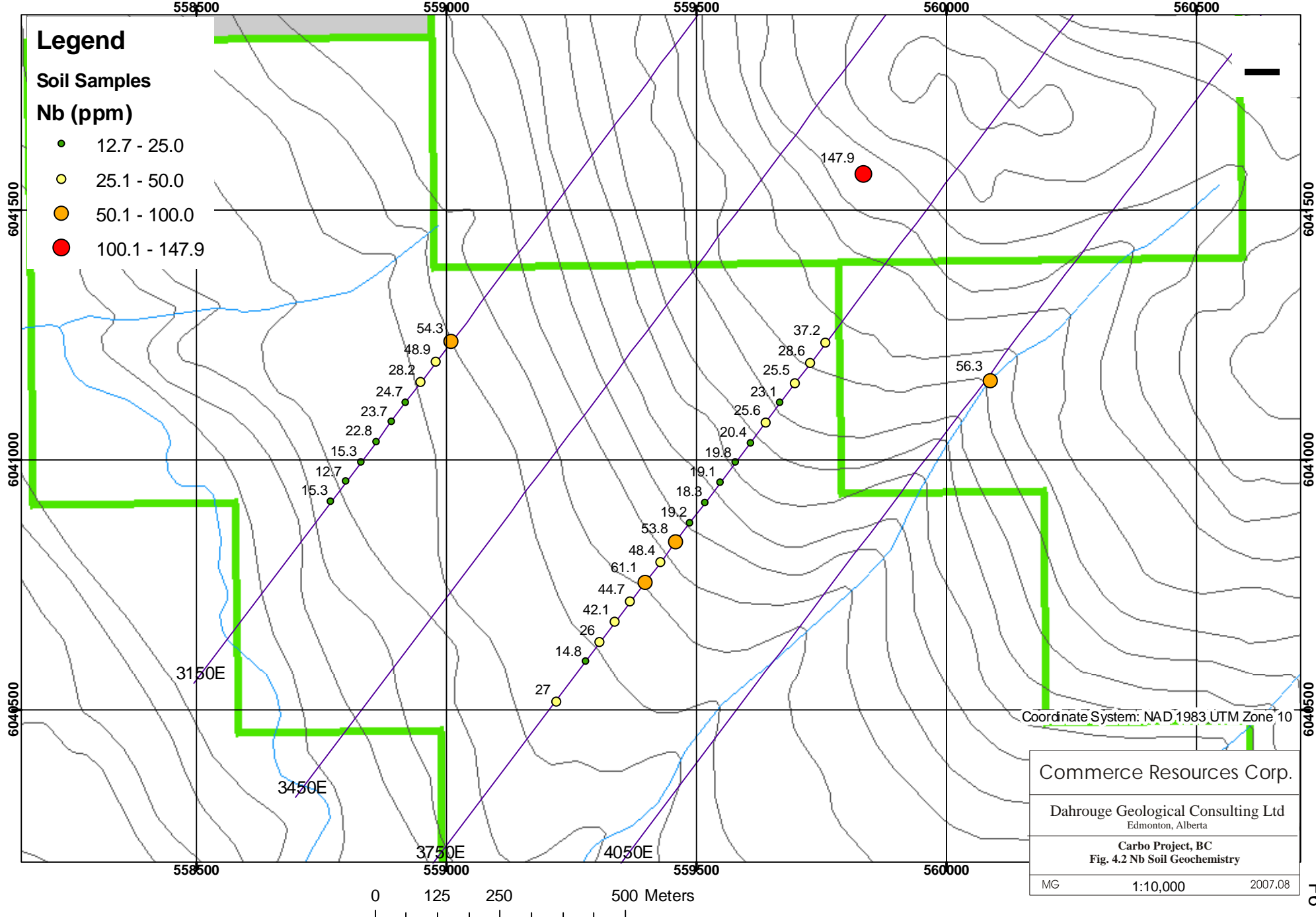
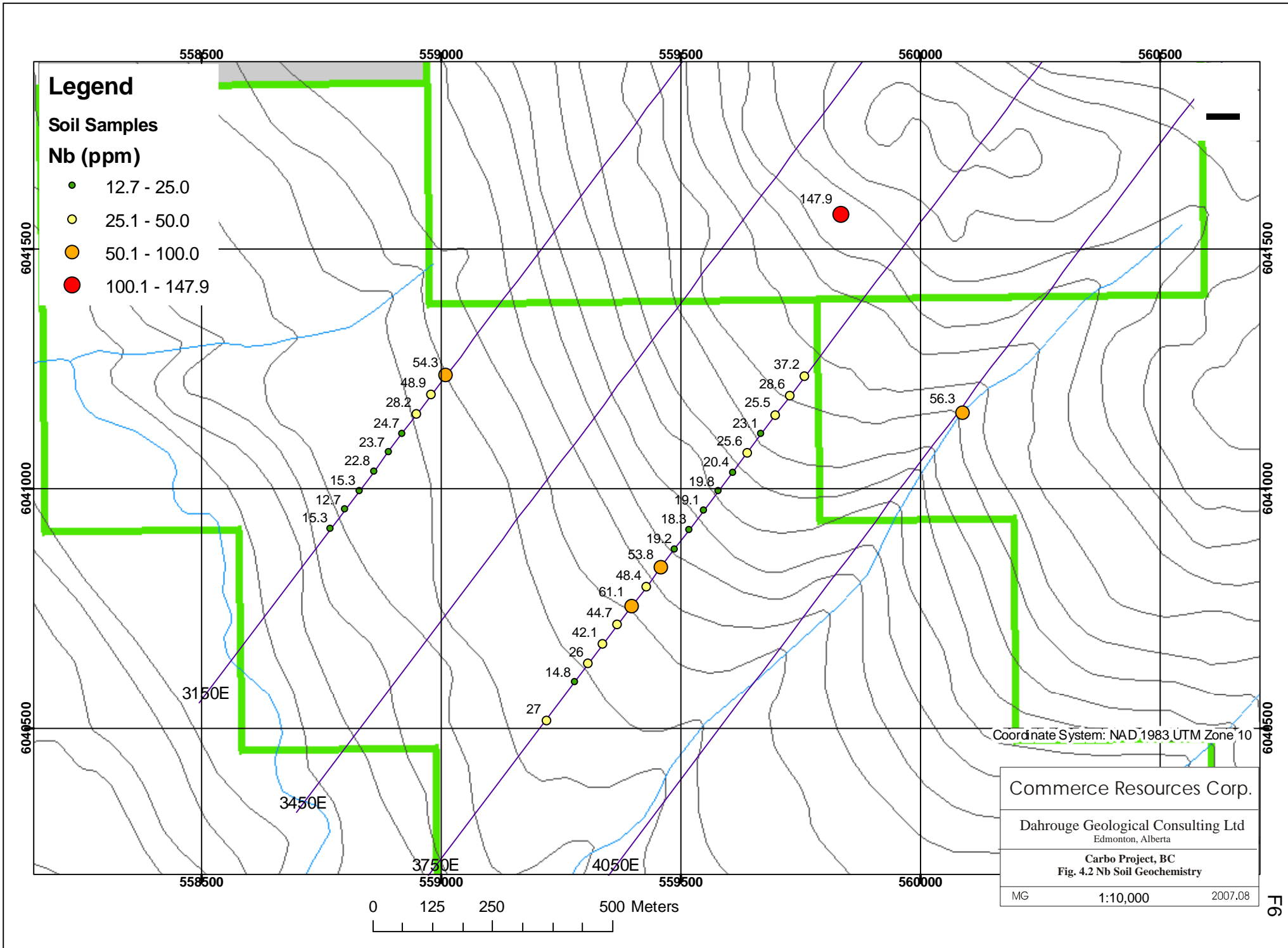
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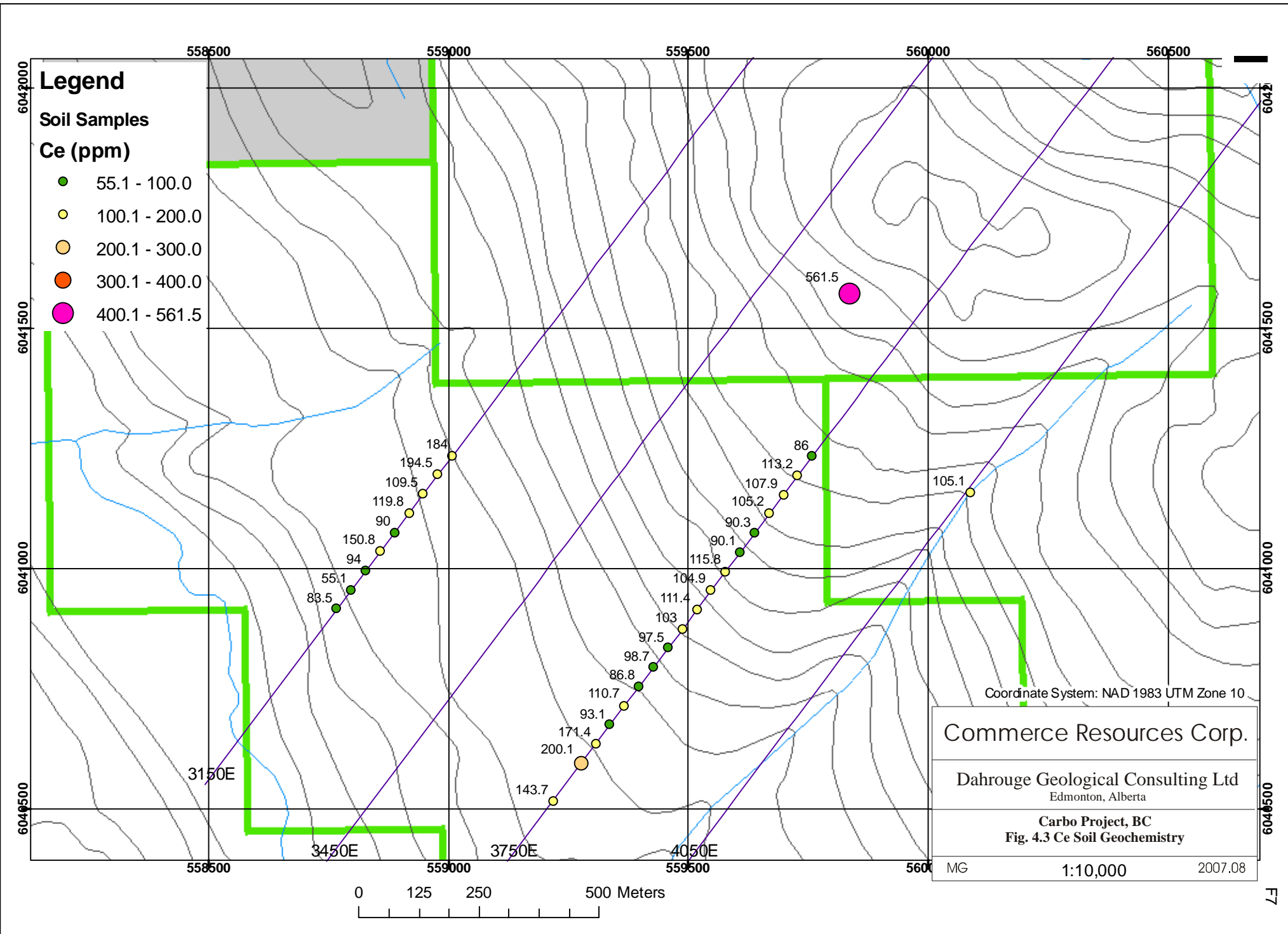
Commerce Resources Corp.

Dahrouge Geological Consulting Ltd  
Edmonton, Alberta

Carbo Project, BC  
Fig. 4.1 Sample Location Map

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**Legend**

**Soil Samples**

**Ce (ppm)**

- 55.1 - 100.0
- 100.1 - 200.0
- 200.1 - 300.0
- 300.1 - 400.0
- 400.1 - 561.5

Coordinate System: NAD 1983 UTM Zone 10

**Commerce Resources Corp.**

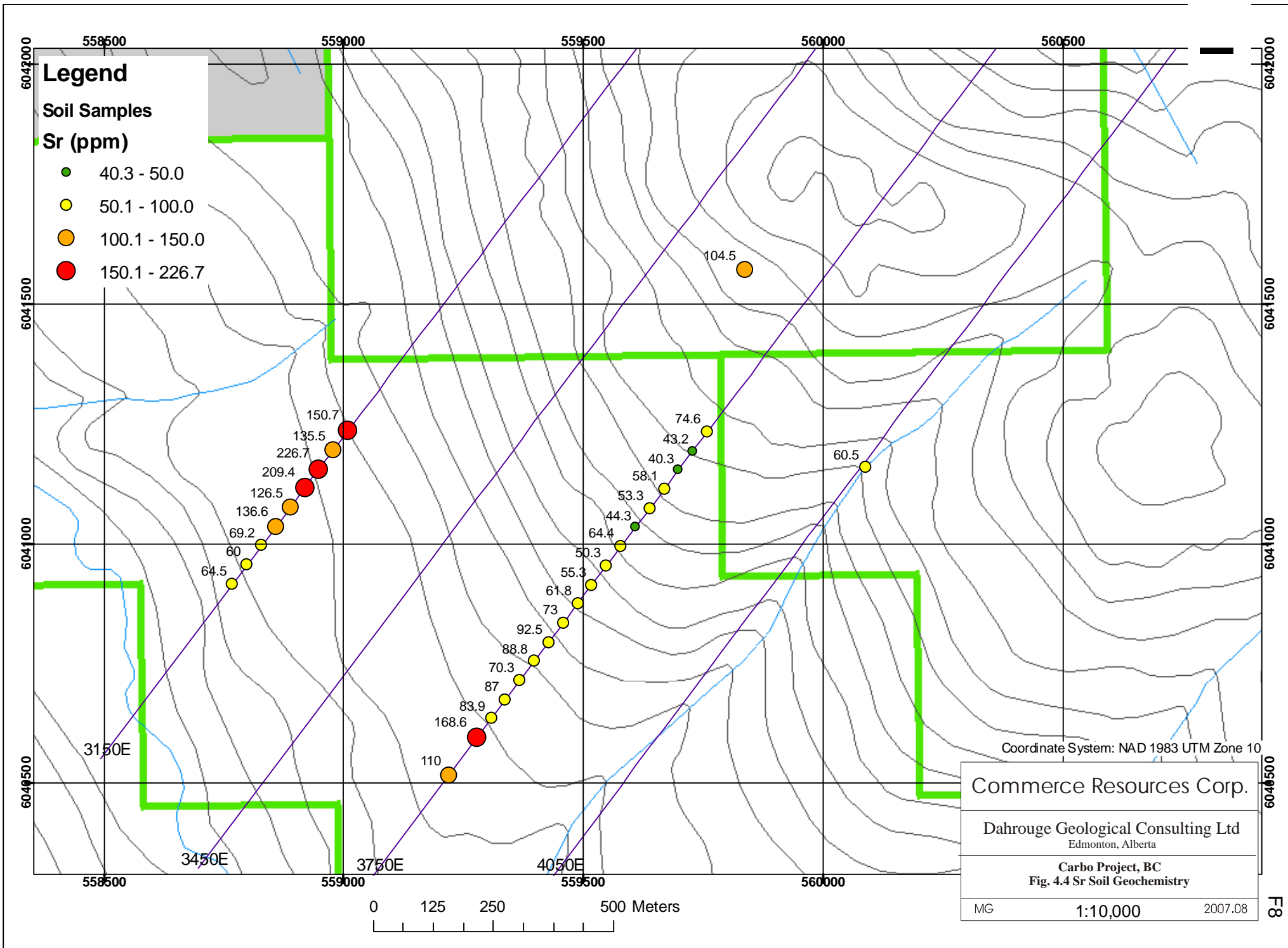
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Edmonton, Alberta

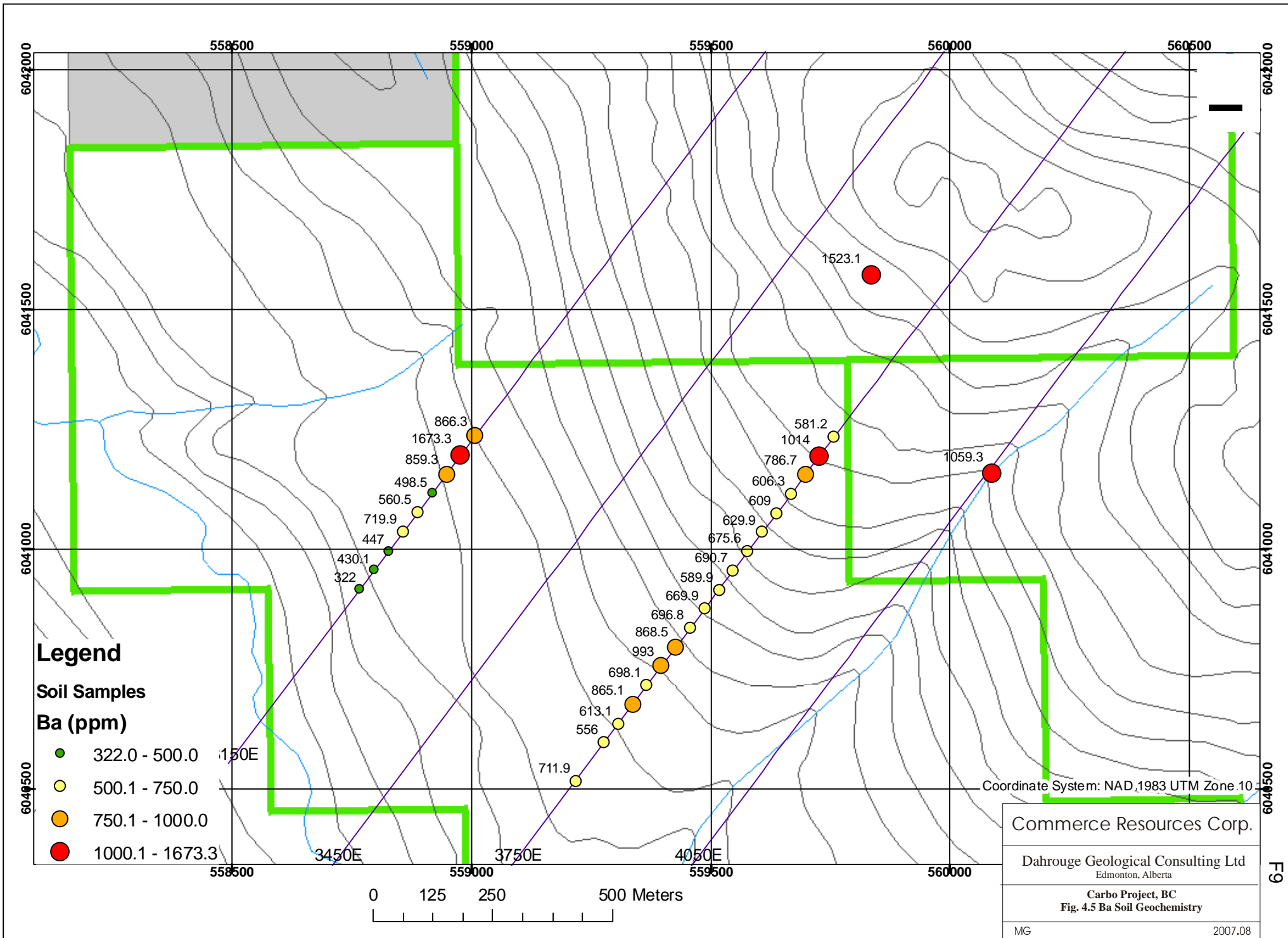
**Carbo Project, BC**  
**Fig. 4.3 Ce Soil Geochemistry**

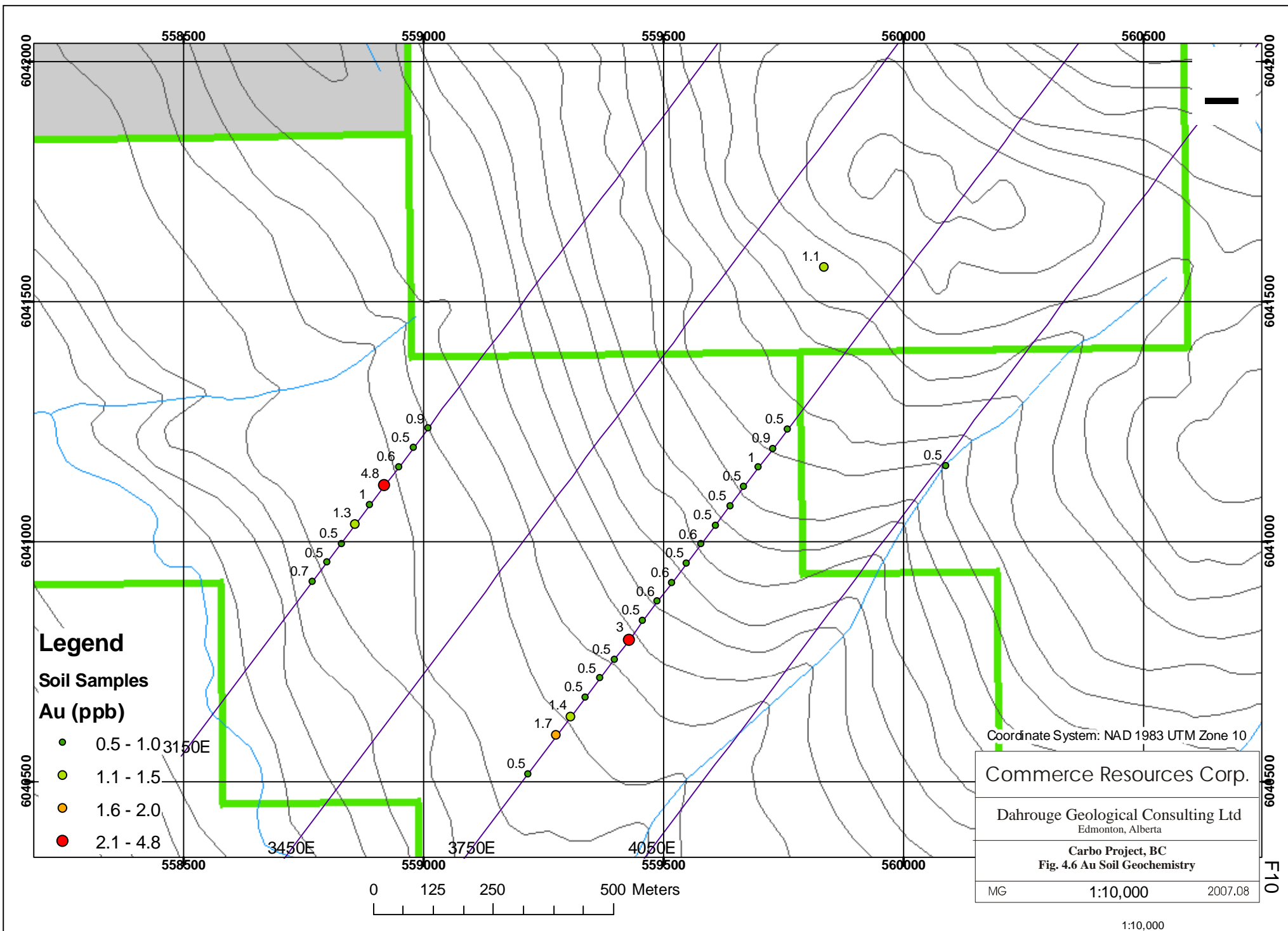
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0 125 250 500 Meters

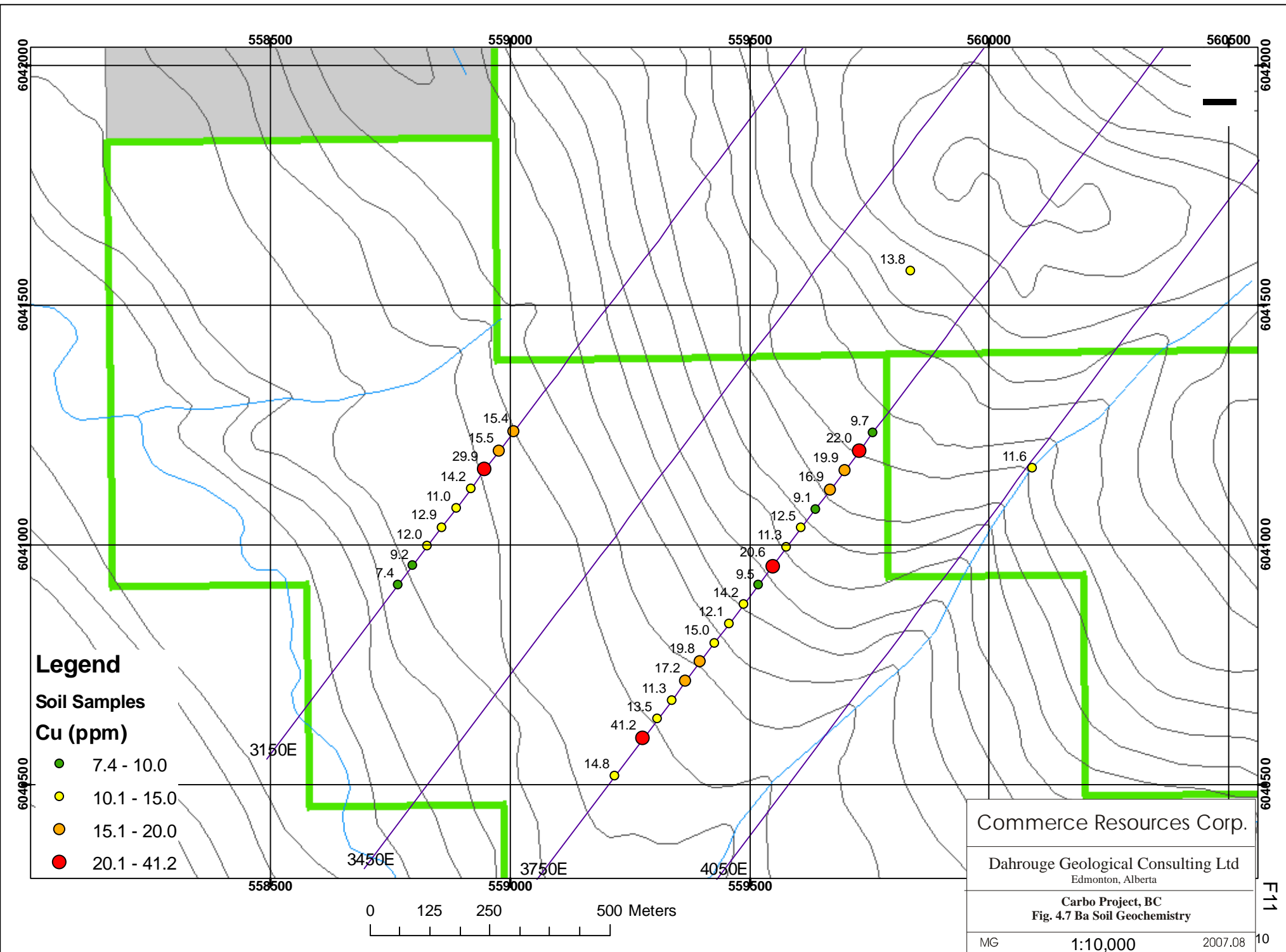
L7









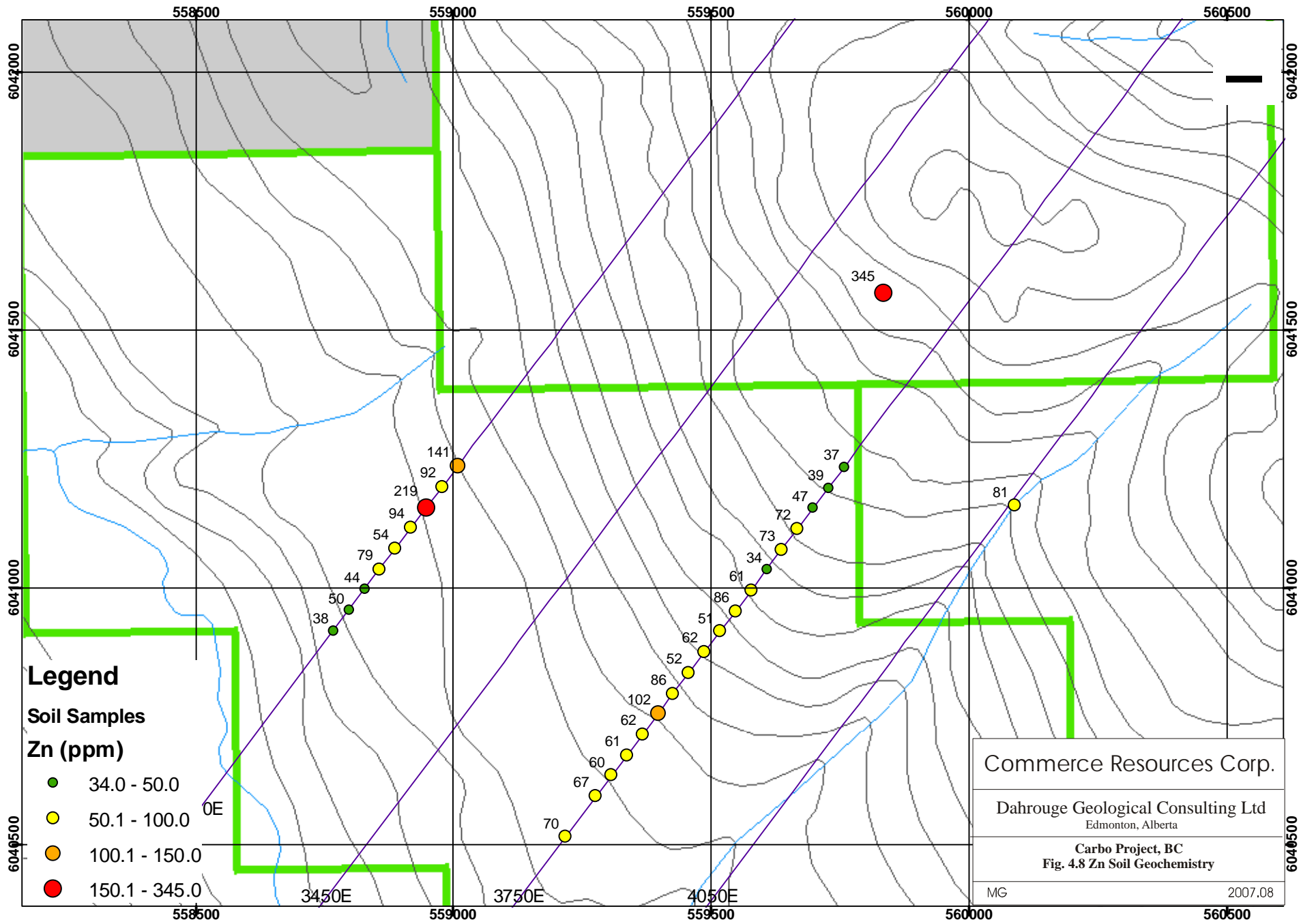


Commerce Resources Corp.

Dahrouge Geological Consulting Ltd  
Edmonton, Alberta

Carbo Project, BC  
Fig. 4.7 Ba Soil Geochemistry

MG 1:10,000 2007.08



**Legend**

**Soil Samples**

**Zn (ppm)**

- 34.0 - 50.0
- 50.1 - 100.0
- 100.1 - 150.0
- 150.1 - 345.0

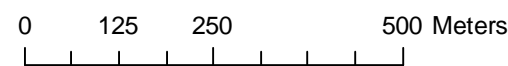
Commerce Resources Corp.

Dahrouge Geological Consulting Ltd  
Edmonton, Alberta

Carbo Project, BC  
Fig. 4.8 Zn Soil Geochemistry

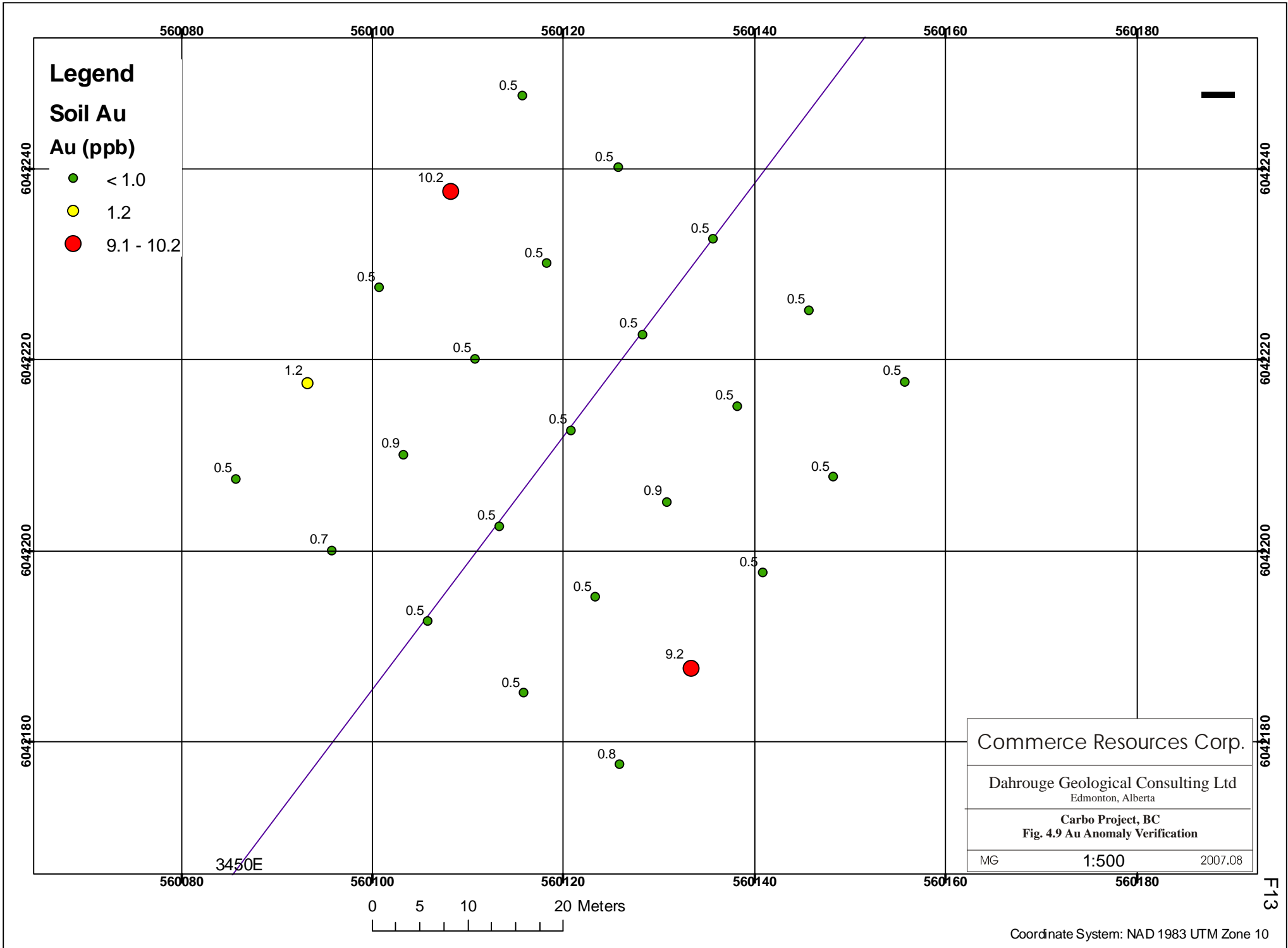
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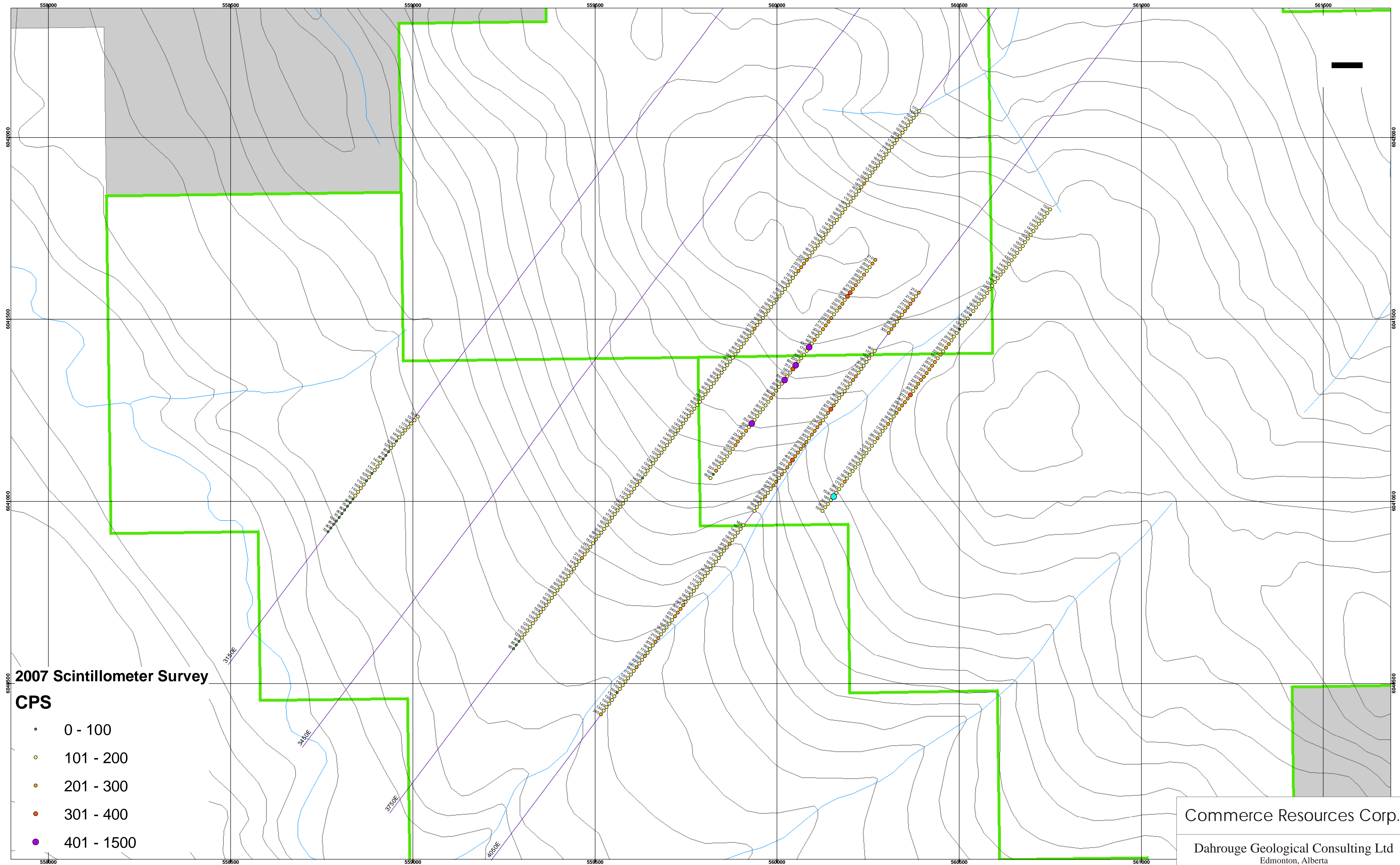
2007.08



Coordinate System: NAD 1983 UTM Zone 10







**2007 Scintillometer Survey**

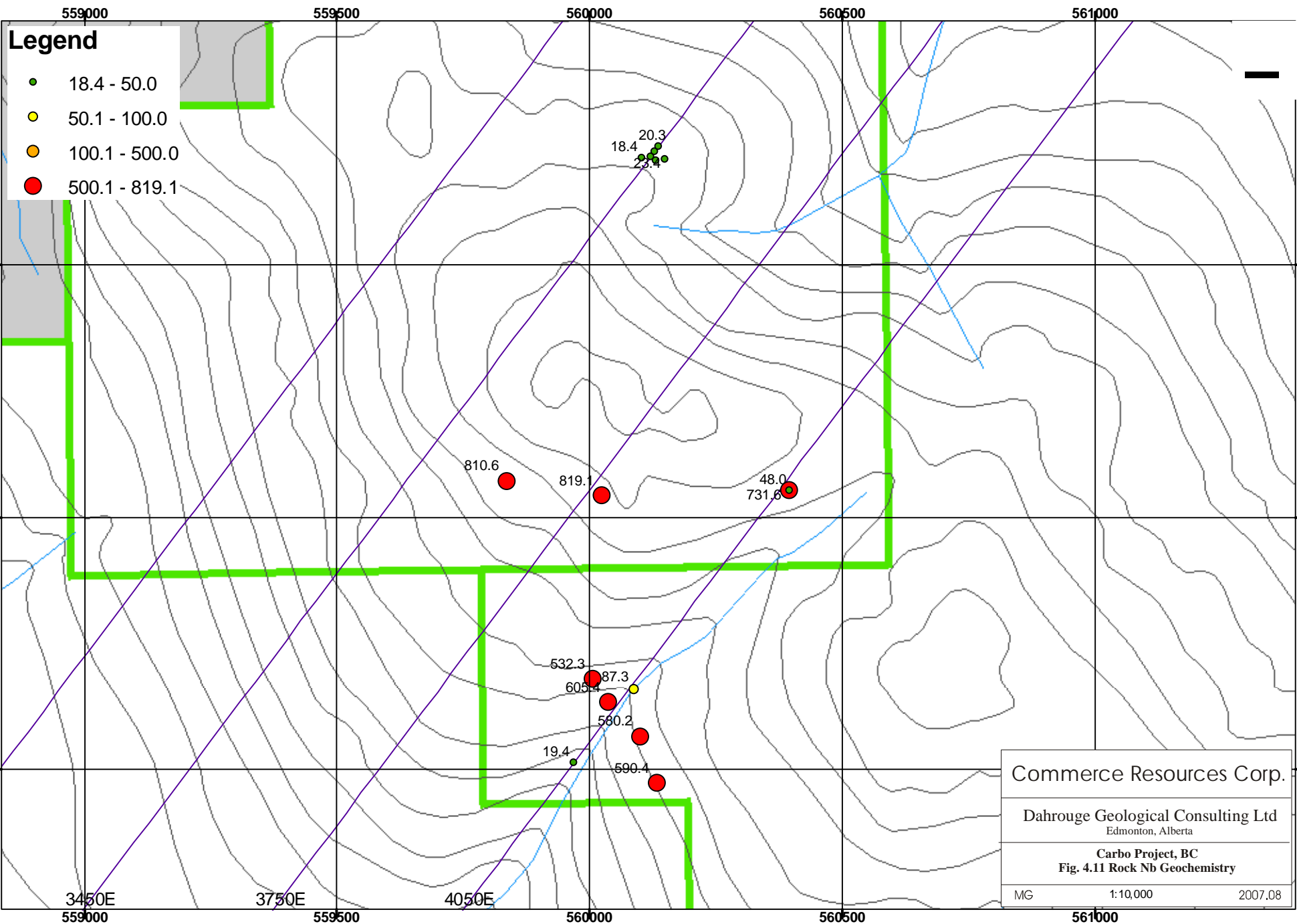
**CPS**

- 0 - 100
- 101 - 200
- 201 - 300
- 301 - 400
- 401 - 1500



Coordinate System: NAD 1983 UTM Zone 10

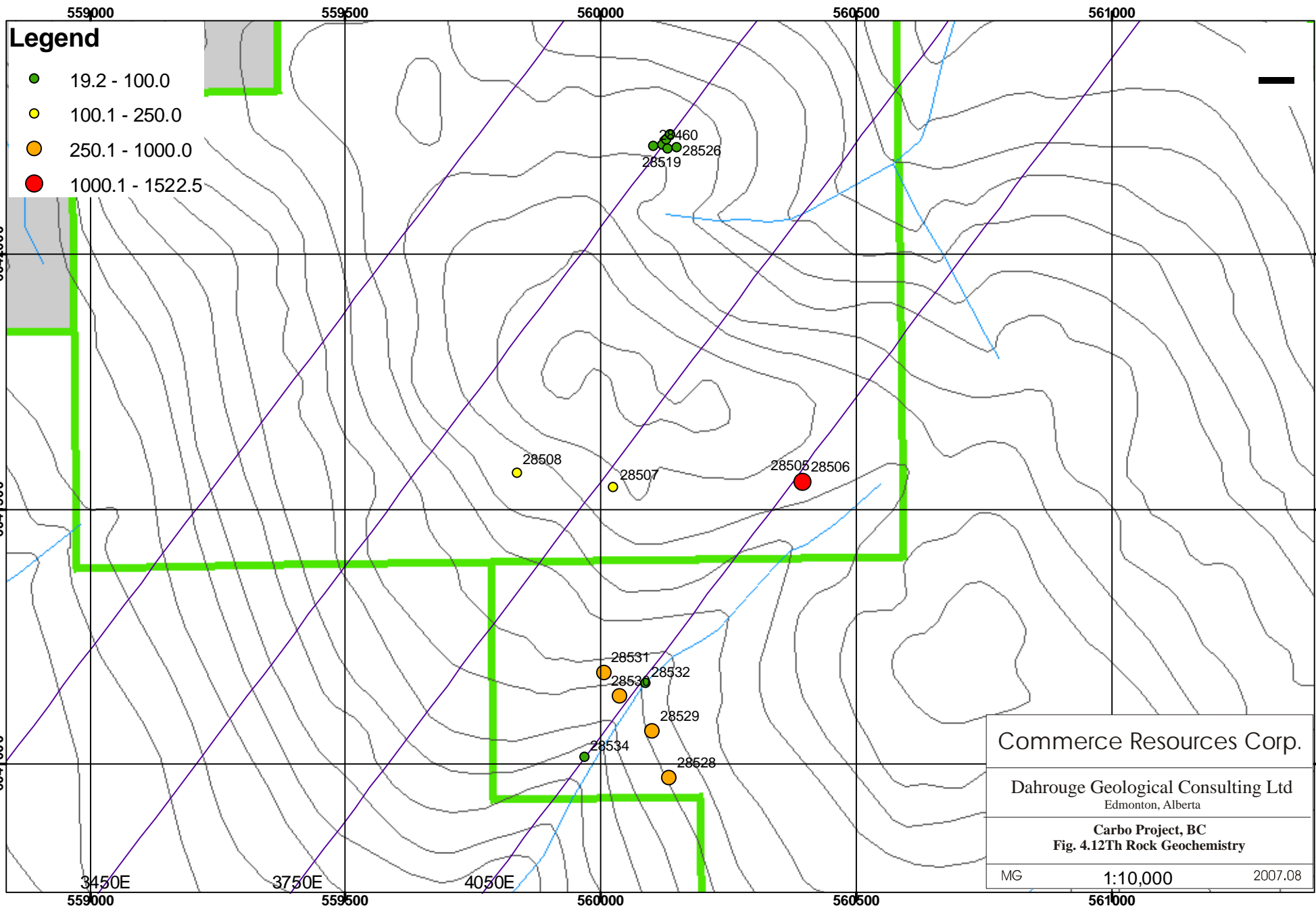
Commerce Resources Corp.		
Dahrouge Geological Consulting Ltd Edmonton, Alberta		
Carbo Project, BC Fig. 4.10 Scintillometer Survey		
MG	1:5,000	2007.08



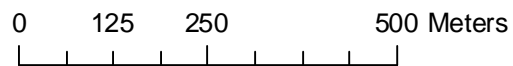
Commerce Resources Corp.  
 Dahrouge Geological Consulting Ltd  
 Edmonton, Alberta  
 Carbo Project, BC  
 Fig. 4.11 Rock Nb Geochemistry  
 MG 1:10,000 2007.08



Coordinate System: NAD 1983 UTM Zone 10



Commerce Resources Corp.		
Dahrouge Geological Consulting Ltd Edmonton, Alberta		
Carbo Project, BC Fig. 4.12 Th Rock Geochemistry		
MG	1:10,000	2007.08



Coordinate System: NAD 1983 UTM Zone 10



## APPENDIX 1: ITEMIZED COST STATEMENT

### a) Personnel

J. Dahrouge, geologist			
3.20	days	project planning and supervision; reporting	
3.20	days	@ \$ 695.50	\$ 2,225.60
M. Guo, geologist			
10.00	days	preparations, compile project data, reporting, other	
6.00	days	field work and travel between June 11 to 16	
16.00	days	@ \$ 620.60	\$ 9,929.60
C. Taylor, geologist			
0.70	days	prepare for field	
6.00	days	field work and travel between June 11 to 16	
6.70	days	@ \$ 481.50	\$ 3,226.05
A. Peter-Rennich, field assistant			
5.50	days	field work and travel June 11-16	
5.50	days	@ \$ 347.75	\$ 1,912.63
J. Brown, field assistant			
5.50	days	field work and travel June 11-16	
5.50	days	@ \$ 347.75	\$ 1,912.63
			\$ 19,206.50

### b) Food and Accommodation

23 man-days	@ \$ 34.46	accommodations	\$ 792.59
23 man-days	@ \$ 51.65	groceries and meals	\$ 1,188.00
			\$ 1,980.59

### c) Transportation

Aircraft:	Helicopter Charter(s)	\$ 6,618.22
Vehicles:	Rental for 4x4 Truck	\$ 1,184.98
	- May 29 to 31, June 11 to 16	
	Fuel	\$ 236.05
		\$ 8,039.24

### d) Instrument Rental

Radio Rentals (2 units - 6 days)	\$ 209.88
Scintillometer Rentals (2 units - 6 days)	\$ 769.56
Spectrometer Rentals (1 unit - 6 days)	\$ 524.70
	\$ 1,504.14

### e) Drilling

N/A

### f) Analyses

Acme Analytical Laboratories Ltd.	\$ 3,182.77
- 54 soil samples	
- 16 rock samples	
	\$ 3,182.77

### g) Report

Reproductions and assembly	\$ 44.00
	\$ 44.00

**APPENDIX 1: CONTINUED**

**h) Other**

Field Equipment and Supplies	\$ 128.40	
Long distance telephone	<u>\$ 0.72</u>	\$ 129.11

**Total**

\$ 34,086.36

**APPENDIX 2  
LOCATION OF SOIL SAMPLES**

## Appendix 2 Locations of the 2006 Soil Samples

Sample Number	Line Number	Station Number	Coordinates (NAD1983, UTM Zone 10)		Depth Meter
			Easting	Northing	
28501	3150	-800	558858	6041035	0.3
28502	3150	-850	558828	6040995	0.5
28503	3150	-900	558798	6040956	0.4
28504	3150	-950	558768	6040916	0.5
28509			559836	6041571	0.5
28510			560121	6042213	0.3
28512			560128	6042223	0.3
28514			560136	6042233	0.2
28516			560146	6042225	0.3
28517			560138	6042215	0.4
28518			560131	6042205	0.1
28520			560123	6042195	0.3
28521			560116	6042185	0.3
28522			560126	6042178	0.3
28523			560133	6042188	0.2
28524			560141	6042198	0.2
28525			560148	6042208	0.3
28527			560156	6042218	0.3
28533			560089	6041158	0.3
28535			559219	6040515	0.3
28451	3150	-750	558888	6041075	0.3
28452	3150	-700	558918	6041115	0.4
28453	3150	-650	558949	6041155	0.3
28454	3150	-600	558979	6041195	0.5
28455	3150	-550	559009	6041235	0.3
28456			560113	6042203	0.4
28457			560106	6042193	
28458			560096	6042200	0.4
28459			560103	6042210	0.4
28461			560111	6042220	0.3
28462			560118	6042230	0.4
28463			560126	6042240	0.3
28464			560116	6042248	0.3
28465			560108	6042238	0.3
28466			560101	6042228	0.3
28467			560093	6042218	0.4
28468			560086	6042208	0.35
28469	3750	-100	559759	6041233	0.3
28470	3750	-150	559729	6041193	0.3
28471	3750	-200	559699	6041153	0.3
28472	3750	-250	559668	6041114	0.3
28473	3750	-300	559638	6041074	0.3
28474	3750	-350	559608	6041034	
28475	3750	-400	559578	6040994	0.4
28476	3750	-450	559548	6040954	0.3
28477	3750	-500	559518	6040914	0.3
28478	3750	-550	559488	6040874	0.3
28479	3750	-600	559458	6040834	0.5
28480	3750	-650	559428	6040794	0.4
28481	3750	-700	559398	6040754	0.4
28482	3750	-750	559368	6040714	0.3
28483	3750	-800	559337	6040674	0.3
28484	3750	-850	559307	6040634	0.4
28485	3750	-900	559277	6040594	0.5



**APPENDIX 3  
LOCATION OF ROCK SAMPLES**

Appendix 3 Location of Rock Samples					
Sample Number	UTM NAD 1983		Rock Type	Outcrop/Float	Comments
	Easting	Northing			
28505	560396	6041553	Synite(?)	Outcrop	With pyrites, CPS 8200
28506	560396	6041553	Phyllite	Outcrop	Close to intrusion
28507	560025	6041542	Phyllite	Outcrop	CPS 1800
28508	559836	6041571	Phyllite	Outcrop	CPS 1200
28511	560121	6042213	Phyllite	Outcrop	
28513	560128	6042223	Phyllite	Outcrop	
28515	560136	6042233	Phyllite	Ourcrop	
28519	560131	6042205	Phyllite	Outcrop	
28526	560148	6042208	Phyllite	Outcrop	
28528	560133	6040973	Pyroxenite	Outcrop	Abundant pyrites, CPS 3200
28529	560100	6041065	Carbonatite	Outcrop	With pyrites, CPS2000
28530	560037	6041133	Pyroxenite	Outcrop	With pyrites, CPS2000
28531	560006	6041179	Pyroxenite	Outcrop	With pyrites, CPS2000
28532	560089	6041158	Phyllite	Outcrop	
28534	559968	6041013	quartz vein	Outcrop	
28460	560103	6042210	phyllite	Outcrop	

**APPENDIX 4**  
**ACME ANALYTICAL LABORATORIES LTD ANALYTICAL RESULTS**





SAMPLE#	Ba ppm	Be ppm	Co ppm	Cs ppm	Ga ppm	Hf ppm	Nb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	Th ppm	U ppm	V ppm	W ppm	Zr ppm	Y ppm	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
28503	430.1	1	8.0	1.5	11.5	4.8	12.7	56.3	1	60.0	.6	7.6	1.6	66	6.3	174.3	10.5	24.9	55.1	5.57	18.6	2.88	.51	1.93	.33	1.55	.32	.84	.15	.96	.16
28504	322.0	1	6.3	1.0	6.6	9.4	15.3	36.7	1	64.5	.7	8.8	2.0	47	.6	351.0	16.8	38.1	83.5	8.29	29.8	4.46	.73	2.89	.53	2.44	.53	1.55	.25	1.58	.26
28509	1523.1	2	13.1	2.6	18.5	6.1	147.9	104.8	2	104.5	2.2	131.5	6.6	73	3.4	248.7	25.0	65.3	561.5	18.83	73.2	15.60	3.93	9.30	1.46	5.10	.80	2.01	.29	1.80	.26
RE 28509	1496.9	2	12.7	2.7	18.2	6.1	147.0	100.7	2	102.5	2.3	134.5	6.2	73	2.1	230.7	23.2	64.6	556.9	18.34	71.3	15.93	3.78	9.74	1.47	4.95	.80	2.01	.27	1.82	.27
28510	914.0	3	12.4	5.0	22.2	6.5	33.9	121.5	2	135.3	1.1	27.5	2.5	83	5.1	240.1	31.0	68.0	151.7	15.40	54.1	8.18	1.67	5.62	1.08	4.88	.93	2.65	.40	2.28	.33
28512	851.0	3	18.8	4.9	21.0	6.4	43.8	111.2	2	141.0	1.0	29.1	2.6	69	3.8	233.1	32.6	82.8	180.7	17.14	58.8	8.87	1.81	6.11	1.10	5.32	.98	2.64	.41	2.34	.33
28514	806.3	9	12.5	4.6	21.9	6.7	45.5	117.8	3	107.1	1.3	24.0	2.2	82	4.4	255.1	24.3	51.1	118.1	11.93	41.2	6.47	1.24	4.34	.81	3.97	.71	2.12	.32	1.95	.29
28516	887.0	3	9.5	8.9	24.1	5.9	51.7	124.2	15	179.3	1.1	23.7	2.2	85	3.6	197.7	28.5	58.9	124.7	13.06	44.4	7.06	1.45	5.23	1.00	4.48	.89	2.43	.34	2.15	.30
28517	847.1	3	16.2	4.2	19.8	6.7	56.9	110.4	2	167.3	1.2	25.1	4.4	88	3.8	257.9	47.1	77.9	151.5	17.18	61.6	9.73	2.30	7.73	1.44	6.74	1.36	3.76	.54	3.64	.56
28518	677.5	4	15.0	6.1	22.4	6.4	282.0	126.6	3	175.2	1.7	44.4	2.7	76	5.9	274.4	44.2	124.2	252.1	23.91	79.1	11.92	2.63	8.13	1.46	6.78	1.38	3.80	.56	3.50	.49
28520	915.6	3	10.8	5.0	20.4	7.1	36.2	127.2	2	140.7	1.0	25.4	2.3	84	5.5	253.6	28.4	55.8	134.4	14.30	51.1	8.07	1.62	5.28	.94	4.46	.84	2.47	.37	2.27	.32
28521	1309.2	4	9.8	6.1	23.7	7.7	37.0	147.5	2	175.7	1.2	35.0	2.5	88	10.7	282.4	44.3	90.4	224.3	24.51	84.5	12.86	2.63	8.47	1.52	6.80	1.30	3.70	.54	3.14	.42
28522	764.8	2	14.6	3.5	19.0	7.2	36.7	96.1	2	127.3	1.0	26.3	2.6	81	3.8	257.4	27.9	73.6	177.4	15.82	53.3	8.46	1.72	5.57	1.02	4.81	.87	2.46	.41	2.29	.34
28523	666.0	8	20.6	5.9	21.9	7.4	84.1	102.2	4	158.5	1.1	103.1	2.6	88	6.9	294.8	65.9	167.8	530.3	49.02	159.7	22.33	5.33	13.97	2.52	10.63	2.00	5.66	.84	4.68	.62
28524	880.3	2	15.3	3.1	22.3	6.0	20.8	125.1	2	124.0	1.0	16.5	2.2	74	2.4	227.4	21.1	43.6	96.9	10.64	37.3	5.68	1.04	3.73	.68	3.18	.66	1.85	.27	1.69	.24
28525	803.1	3	14.6	6.4	22.3	5.3	85.5	136.3	3	192.5	1.3	42.0	2.5	77	6.5	197.1	38.1	99.1	224.2	22.30	75.3	10.43	2.14	6.72	1.22	5.91	1.10	3.22	.45	2.81	.39
28527	884.8	2	11.6	7.0	23.0	6.0	45.9	108.7	17	153.9	1.0	18.2	2.2	88	3.3	203.2	26.3	42.4	93.3	10.04	35.2	5.66	1.19	4.41	.90	4.23	.83	2.28	.34	2.02	.27
28533	1059.3	5	15.7	2.0	23.4	7.0	56.3	151.6	3	60.5	1.3	32.7	2.6	90	7.7	284.0	27.7	44.2	105.1	10.55	38.6	5.99	1.27	4.57	.90	4.39	.83	2.49	.35	2.09	.30
28535	711.9	2	12.5	2.3	15.4	7.3	27.0	85.0	2	110.0	1.0	20.4	2.5	71	1.9	263.8	28.9	61.3	143.7	13.68	47.2	7.68	1.63	5.60	1.04	4.70	.91	2.53	.37	2.27	.36
STANDARD	511.7	1	28.6	6.9	18.0	10.6	22.7	27.5	15	425.3	6.4	9.6	17.3	213	15.3	290.0	35.1	12.2	28.7	3.55	14.4	2.99	.83	2.89	.57	2.94	.60	1.75	.29	1.73	.27

Standard is STANDARD SO-18. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.





GEOCHEMICAL ANALYSIS CERTIFICATE



Dahrouge Geological Consulting PROJECT 20005 File # A704191 Page 1 (b)

18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Michael Guo

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Se ppm
28451	3.9	11.0	22.6	54	18.8	5.4	.1	.3	.2	<.1	1.0	.03	.1	<.5
28452	1.6	14.2	22.2	94	14.9	3.4	.3	.2	.2	.1	4.8	.08	.1	<.5
28453	1.5	29.9	29.5	219	26.4	4.5	.7	.4	.2	.2	.6	.10	.2	.9
28454	1.3	15.5	40.2	92	31.4	7.4	.1	.3	.3	<.1	<.5	.03	.2	<.5
28455	1.5	15.4	39.4	141	26.9	6.5	.1	.3	.3	<.1	.9	.03	.1	<.5
28456	2.6	9.3	10.4	40	25.5	5.7	.1	.3	.3	<.1	<.5	.04	.3	<.5
28457	1.8	14.6	11.3	55	26.8	4.9	.1	.2	.5	<.1	<.5	.05	.4	<.5
28458	2.1	10.0	18.4	45	14.1	4.9	.1	.2	.2	<.1	.7	.05	.1	<.5
28459	3.0	11.6	11.2	49	25.5	6.4	.1	.4	.3	<.1	.9	.03	.5	<.5
28461	2.6	13.1	12.6	76	26.6	6.1	.1	.2	.2	<.1	<.5	.05	.4	<.5
28462	1.0	9.1	8.6	46	22.2	3.7	.1	.2	.2	<.1	<.5	.03	.1	<.5
28463	1.4	9.7	10.1	52	19.0	3.3	<.1	.2	.2	<.1	<.5	.03	.1	<.5
28464	3.6	8.7	15.1	52	15.4	3.3	.1	.2	.4	<.1	<.5	.04	.1	<.5
28465	1.7	8.4	21.5	56	18.7	4.4	.1	.2	.3	<.1	10.2	.04	.2	<.5
28466	2.0	7.5	8.5	33	15.4	4.0	<.1	.2	.3	<.1	<.5	.03	.1	<.5
28467	6.4	15.3	17.9	90	23.1	4.7	.1	.2	.2	<.1	1.2	.05	.4	<.5
28468	1.4	6.2	21.5	38	12.3	6.5	<.1	.4	.2	<.1	<.5	.03	.1	<.5
28469	1.0	9.7	25.1	37	11.1	7.1	<.1	.2	.6	<.1	<.5	.03	.1	<.5
28470	.9	22.0	19.3	39	14.4	9.4	<.1	.6	.6	<.1	.9	.03	<.1	<.5
28471	.5	19.9	12.3	47	19.1	4.2	<.1	.2	.3	<.1	1.0	.04	<.1	<.5
28472	.8	16.9	29.4	72	17.5	5.6	.1	.2	.2	<.1	<.5	.05	<.1	.5
28473	.9	9.1	27.6	73	16.2	6.0	.1	.2	.3	<.1	<.5	.05	.1	<.5
28474	.7	12.5	14.8	34	8.7	3.5	.1	.2	.2	<.1	.5	.02	.1	<.5
28475	.6	11.3	17.8	61	18.5	2.5	.1	.2	.2	<.1	.6	.01	<.1	<.5
28476	.3	20.6	19.9	86	36.8	1.3	.1	.1	.2	<.1	<.5	.02	<.1	<.5
RE 28476	.2	21.2	20.2	89	38.4	1.2	.1	.1	.2	<.1	.5	.01	<.1	<.5
28477	.5	9.5	17.9	51	19.4	.9	.1	.1	.2	<.1	.6	.03	<.1	<.5
28478	.7	14.2	19.3	62	20.0	1.6	.1	.1	.2	<.1	.6	.02	<.1	<.5
28479	1.3	12.1	32.5	52	12.4	5.0	<.1	.2	.3	<.1	<.5	.02	.1	<.5
28480	1.6	15.0	36.7	86	18.3	7.2	.1	.2	.3	.1	3.0	.05	.1	<.5
28481	2.1	19.8	67.3	102	18.4	9.3	.1	.3	.5	.1	<.5	.03	.1	<.5
28482	2.5	17.2	31.1	62	14.3	7.5	.1	.3	.5	<.1	<.5	.04	.1	<.5
28483	1.6	11.3	31.2	61	16.6	7.2	<.1	.2	.3	<.1	<.5	.04	.1	<.5
28484	.7	13.5	19.0	60	32.4	3.4	.2	.2	.2	<.1	1.4	.04	.1	<.5
28485	1.2	41.2	17.1	67	24.9	3.5	1.0	.2	.2	.3	1.7	.18	.1	1.5
28501	.8	12.9	23.4	79	31.2	4.8	.2	.2	.2	<.1	1.3	.04	.1	.5
28502	.7	12.0	15.6	44	20.9	3.6	.1	.2	.1	.1	<.5	.04	.1	.5
STANDARD DS7	20.9	110.8	76.4	391	59.1	48.4	6.5	5.5	4.4	.9	56.3	.21	4.4	3.8

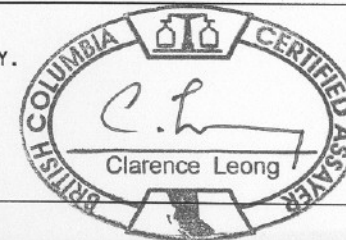
GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.  
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.  
- SAMPLE TYPE: SOIL SP100 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data *FA*

DATE RECEIVED: JUN 25 2007

DATE REPORT MAILED: *July 17/07*

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.





SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Se ppm
28503	1.0	9.2	14.3	50	16.8	3.4	.1	.2	.1	<.1	<.5	.02	.1	<.5
28504	.6	7.4	8.4	38	13.8	2.6	.1	.2	.1	<.1	.7	.02	<.1	<.5
28509	3.2	13.8	136.9	345	27.5	5.5	.3	.2	.5	<.1	1.1	.05	.1	<.5
RE 28509	3.4	13.0	145.5	332	26.4	5.3	.5	.2	.6	<.1	.8	.04	.1	<.5
28510	2.8	11.8	13.1	42	19.3	5.2	.1	.3	.3	<.1	<.5	.04	.2	<.5
28512	1.9	14.2	13.1	94	26.2	8.0	.1	.3	.4	<.1	<.5	.03	.3	<.5
28514	2.3	11.3	18.1	49	21.5	3.5	.1	.2	.2	<.1	.5	.03	.1	<.5
28516	1.9	8.2	26.8	78	24.6	4.5	.1	.2	.2	<.1	<.5	.04	.5	<.5
28517	2.1	23.9	15.8	72	30.8	4.8	.2	.2	.3	<.1	.5	.04	.3	<.5
28518	2.6	13.5	10.6	67	26.4	5.2	.1	.2	.3	<.1	.9	.03	.5	<.5
28520	2.5	10.1	19.2	45	16.9	4.8	.1	.2	.2	<.1	<.5	.04	.2	<.5
28521	2.5	7.9	10.0	41	17.4	4.1	<.1	.2	.2	<.1	<.5	.03	.4	<.5
28522	2.2	17.0	18.4	53	23.5	4.9	.1	.2	.2	<.1	.8	.04	.2	<.5
28523	2.1	11.2	145.4	232	25.0	7.8	.1	.2	.4	<.1	9.2	.03	.5	<.5
28524	.7	8.7	7.7	60	22.4	5.3	<.1	.2	.2	<.1	<.5	.02	.2	<.5
28525	1.7	10.7	13.0	66	24.4	6.1	.1	.3	.2	<.1	<.5	.02	.4	<.5
28527	1.5	7.7	19.1	71	21.5	3.5	.1	.2	.2	<.1	<.5	.05	.4	<.5
28533	1.6	11.6	41.9	81	16.0	10.8	.1	.3	.3	<.1	.5	.01	<.1	<.5
28535	.8	14.8	21.3	70	24.6	5.2	.2	.2	.2	<.1	<.5	.04	.1	<.5
STANDARD DS7	20.0	113.1	71.6	413	61.4	46.8	6.4	5.5	4.4	.8	58.4	.19	4.1	3.6

Sample type: SOIL SP100 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



GEOCHEMICAL ANALYSIS CERTIFICATE



Dahrouge Geological Consulting PROJECT 20005 File # A704192 (a)  
18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Michael Guo

SAMPLE#	Ba ppm	Be ppm	Co ppm	Cs ppm	Ga ppm	Hf ppm	Nb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	Th ppm	U ppm	V ppm	W ppm	Zr ppm	Y ppm	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
28460	1671.9	4.12.4	8.1	23.4	4.1	18.4	170.8	2	263.0	1.1	25.4	2.5	73	2.0	137.6	29.2	61.9	113.8	13.90	50.2	8.65	1.71	6.26	1.12	4.66	.87	2.39	.36	2.21	.33	
28506	1745.5	7.10.9	5.2	26.1	4.7	48.0	125.7	10	249.5	.9	487.5	2.1	116	11.5	182.5	171.0	53.4	107.5	13.34	55.6	14.75	4.51	18.66	4.43	23.46	4.85	13.25	1.94	11.59	1.61	
28507	4563.7	1.11.6	5.0	24.6	7.7	819.1	296.1	5	174.2	16.0	147.3	40.6	77	3.4	592.1	82.6	67.0	361.6	23.24	98.6	32.00	11.11	32.36	5.55	19.61	2.90	6.15	.74	3.83	.48	
28508	4127.5	<1	4.6	4.0	22.1	1.1	810.6	243.8	2	226.6	8.7	247.4	28.0	39	4.4	57.7	9.3	197.3	452.8	55.07	240.0	41.38	9.87	18.86	1.76	3.81	.23	.35	.08	.61	.07
28511	765.3	3.12.3	2.4	18.2	7.9	20.0	85.2	2	162.0	.9	30.7	2.7	59	5.3	271.7	23.8	39.6	81.6	9.35	35.0	5.84	1.20	4.35	.78	3.71	.76	2.13	.34	2.22	.34	
28513	1185.4	4.10.4	4.7	23.4	5.0	18.4	149.4	3	121.7	1.1	21.9	2.3	74	1.9	175.6	18.3	50.0	98.6	11.27	39.8	5.68	1.10	3.60	.65	2.99	.59	1.59	.24	1.64	.24	
RE 28513	1199.0	4.11.3	4.9	25.6	5.7	19.0	157.8	3	129.9	1.1	22.6	2.3	76	2.2	183.4	19.8	50.1	100.1	11.62	41.9	5.89	1.13	3.66	.65	3.15	.57	1.66	.26	1.61	.23	
28515	972.8	2.10.0	3.7	23.0	6.1	20.3	137.9	3	101.9	1.1	20.1	2.5	74	4.1	215.2	24.4	50.9	98.5	11.60	42.4	6.80	1.22	4.61	.78	3.83	.73	2.17	.33	2.13	.33	
28519	950.6	3.9.7	4.7	21.0	5.3	25.0	138.8	3	315.7	1.0	32.9	2.5	70	3.0	188.3	26.1	70.8	128.0	14.24	51.5	7.30	1.32	5.01	.88	3.95	.80	2.18	.34	2.14	.32	
28526	1263.6	3.10.1	6.1	25.0	5.2	23.4	166.7	3	140.1	1.2	22.5	2.2	76	4.1	169.8	19.2	61.3	113.8	12.79	43.2	5.66	1.13	3.57	.70	3.11	.63	1.73	.27	1.70	.26	
28532	1258.9	3.26.2	1.4	19.0	6.8	87.3	124.0	2	128.4	1.0	65.5	2.7	76	15.6	255.7	71.8	37.2	78.4	9.69	39.0	9.10	2.43	9.72	2.16	10.74	2.21	6.03	.87	5.38	.82	
28534	577.0	7.3.6	.2	11.0	3.4	19.4	34.0	16	631.6	.7	19.2	.5	43	6.5	131.6	46.9	25.9	53.8	6.18	24.8	5.42	1.76	5.93	1.34	6.89	1.44	3.81	.58	3.37	.48	
STANDARD SD-18	493.5	<1	27.1	6.6	16.7	9.5	21.5	26.0	15	424.3	6.4	11.5	17.3	198	15.0	284.0	35.2	12.3	26.4	3.44	14.0	3.04	.90	2.83	.56	2.93	.61	1.81	.27	1.74	.27

GROUP 4B - REE - 0.200 GM BY LiBO2/LI2B4O7 FUSION, ICP/MS FINISHED.  
- SAMPLE TYPE: ROCK R150  
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data    FA    DATE RECEIVED: JUN 25 2007 DATE REPORT MAILED:..... JUL 20 2007







GEOCHEMICAL ANALYSIS CERTIFICATE



Dahrouge Geological Consulting PROJECT 20005 File # A704192 (b)

18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Michael Guo

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Se ppm
28460	1.4	18.4	11.4	59	41.7	2.9	.1	.2	.4	<.1	1.3	<.01	1.1	<.5
28506	3.6	20.5	78.6	337	38.3	1.8	.5	.2	.1	<.1	<.5	<.01	.6	<.5
28507	.6	6.0	11.6	121	28.5	<.5	.1	.5	<.1	<.1	1.7	<.01	.8	<.5
28508	.7	5.0	49.5	217	7.9	.7	.4	.2	.1	<.1	2.1	<.01	.3	<.5
28511	.4	16.0	9.1	63	29.1	.7	.1	.3	.2	<.1	.5	<.01	.2	<.5
28513	.3	15.2	13.8	86	33.9	.7	.1	.2	.2	<.1	<.5	<.01	.3	<.5
RE 28513	.4	15.8	15.4	93	34.4	.5	.1	.2	.2	<.1	<.5	<.01	.3	<.5
28515	.5	6.4	8.5	53	28.2	1.6	<.1	.1	.1	<.1	<.5	<.01	.2	<.5
28519	.9	8.7	7.8	67	30.2	3.2	<.1	.5	.2	<.1	.8	<.01	.4	<.5
28526	.3	5.5	7.2	54	25.3	5.5	<.1	.2	.1	<.1	<.5	<.01	.3	<.5
28532	.6	21.5	13.4	84	28.9	10.9	.1	.2	.4	<.1	1.0	<.01	<.1	<.5
28534	.4	3.6	6.6	17	9.4	6.4	<.1	.1	.1	<.1	<.5	<.01	<.1	<.5
STANDARD DS7	19.6	109.4	74.3	399	58.4	47.8	6.1	5.2	4.6	1.6	55.7	.21	4.2	3.8

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.  
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.  
- SAMPLE TYPE: ROCK R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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WHOLE ROCK ICP ANALYSIS



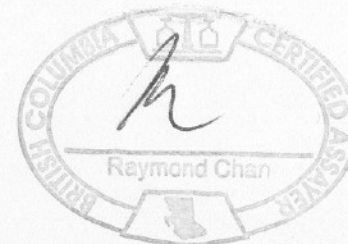
Dahrouge Geological Consulting File # A704193  
18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Michael Guo

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	TOT/C	TOT/S	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	%	%
28505	54.43	18.74	12.10	.26	.11	7.04	3.17	.47	.13	.11	.002	<5	9	1.7	.08	.22	98.27
28528	53.39	18.09	8.65	.18	.72	4.11	7.43	.56	.08	.53	.001	6	2	4.8	.46	.66	98.54
28529	56.21	18.65	6.85	.60	.87	4.63	7.58	.60	.06	.16	<.001	7	2	3.2	.37	.53	99.41
28530	54.62	18.23	8.76	.04	.22	4.15	7.95	.54	.22	.35	.001	<5	2	3.8	.17	1.10	98.88
28531	52.07	18.07	9.50	.09	.07	2.77	8.76	.68	.06	.54	.002	<5	2	3.1	.14	.90	95.72
STANDARD SO-18/CSC	58.29	14.05	7.48	3.35	6.35	3.76	2.20	.70	.81	.40	.556	40	26	1.9	3.18	4.19	99.85

GROUP 4A - 0.200 GM SAMPLE BY LIBO2/LI2B407 FUSION, ANALYSIS BY ICP-ES. (LIBO2/LI2B407 FUSION MAY NOT BE SUITABLE FOR MASSIVE SULFIDE OR HIGH BARITE SAMPLES.) LOI BY LOSS ON IGNITION. TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)

- SAMPLE TYPE: ROCK R150

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GEOCHEMICAL ANALYSIS CERTIFICATE



Dahrouge Geological Consulting File # A704193 (a)  
18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Michael Guo

SAMPLE#	Ba ppm	Be ppm	Co ppm	Cs ppm	Ga ppm	Hf ppm	Nb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	Th ppm	U ppm	V ppm	W ppm	Zr ppm	Y ppm	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
28505	11019.4	3	6.7	.6	30.3	13.8	731.6	85.0	19	309.1	12.9	1522.5	32.3	256	24.5	1206.3	260.1	191.5	403.0	43.64	177.2	48.64	16.74	48.58	9.40	41.99	8.05	20.59	2.86	16.21	2.24
28528	9427.6	1	5.9	7.3	24.0	<.5	590.4	181.7	2	1730.4	7.9	537.4	32.5	21	2.7	4.1	36.1	239.3	579.8	85.15	447.5	102.97	26.82	53.84	5.65	14.08	1.08	1.64	.22	1.36	.15
28529	3945.0	1	5.7	2.5	28.3	<.5	580.2	191.2	4	61.7	7.8	692.7	15.3	22	3.9	12.5	28.7	327.6	617.1	56.44	234.7	70.74	18.86	45.38	4.78	11.62	.98	1.52	.21	1.25	.15
28530	6866.8	1	2.8	.7	28.1	.7	605.4	179.7	17	269.2	8.0	502.1	24.4	17	4.6	38.2	43.9	71.2	397.0	17.49	79.2	26.25	9.43	25.60	4.35	14.32	1.66	2.71	.26	1.41	.17
28531	31025.2	1	6.8	1.1	26.5	.9	532.3	196.1	8	190.6	8.7	969.5	27.3	21	4.1	38.5	42.8	152.1	409.0	44.44	226.1	68.30	21.26	50.38	6.32	17.05	1.43	2.14	.25	1.46	.18
STANDARD SO-18	508.3	<1	27.1	6.6	16.7	9.5	21.8	26.0	15	424.3	6.7	11.5	17.3	198	15.0	284.0	35.2	12.3	29.4	3.62	14.0	2.90	.90	2.83	.56	2.93	.61	1.81	.27	1.74	.27

GROUP 4B - REE - 0.200 GM BY LiBO2/LI2B4O7 FUSION, ICP/MS FINISHED.  
- SAMPLE TYPE: ROCK R150

Data FA \_\_\_\_\_ DATE RECEIVED: JUN 25 2007 DATE REPORT MAILED:.....*JUL 20 2007*.....







GEOCHEMICAL ANALYSIS CERTIFICATE



Dahrouge Geological Consulting File # A704193 (b)

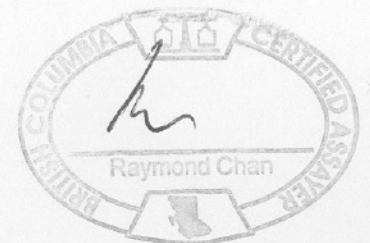
18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Michael Guo

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Se ppm
28505	6.7	8.9	380.3	315	2.7	<.5	.2	.5	3.1	.3	.7	<.01	<.1	.5
28528	17.0	4.5	104.2	252	4.8	4.6	.2	<.1	.2	<.1	1.1	<.01	.1	<.5
28529	15.4	3.2	38.5	67	7.6	6.1	.1	.1	.4	<.1	3.5	<.01	.2	<.5
28530	23.3	5.3	907.4	638	1.0	9.5	.2	.3	.2	.1	<.5	.01	<.1	<.5
28531	8.8	4.0	3026.9	2377	5.2	4.7	1.9	.4	.4	.3	<.5	.04	.2	<.5
STANDARD DS7	19.5	107.8	71.1	391	57.5	45.1	6.1	4.2	4.4	.9	92.9	.19	4.1	3.4

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.  
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.  
- SAMPLE TYPE: ROCK R150

JUL 20 2007

Data \_\_\_ FA \_\_\_ DATE RECEIVED: JUN 25 2007 DATE REPORT MAILED: .....



## **APPENDIX 5: STATEMENT OF QUALIFICATIONS**

The field work described in this report was supervised by Michael Guo.

Michael Guo is a geological consultant with Dahrouge Geological Consulting Ltd. He obtained a Bachelor of Engineering degree in geology and a M.Sc in Geology from the Central South University of Technology, Changsha , P.R. China in 1985 and 1990, respectively. He is a graduate of University of Science and Technology of China, Hefei, P.R. China with a Ph.D in geochemistry, 2000, and a graduate of Sir Sanford Fleming College, Lindsay, Ontario with a Specialist Certificate in GIS, 2004. He has more than 10 years of experience in geological research and mineral exploration. He is registered as P. Geol. with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.