

Ministry of Forests, Mines and Lands
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: GEOCHEMICAL

TOTAL COST: \$12,076.44

AUTHOR(S): TOR BRULAND

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): NONE, GEOCHEM. SURVEY (NO MECHANICAL EQUIP.) YEAR OF WORK: 2011

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):

PROPERTY NAME: CARBO RARE EARTH ELEMENTS PROJECT

CLAIM NAME(S) (on which the work was done): TREO (661563), TREO 1 (661583)

COMMODITIES SOUGHT: RARE EARTH ELEMENTS

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: CARIBOO

NTS/BCGS: 093J 09

LATITUDE: 54 ° 31 '38 " LONGITUDE: 122 ° 09 '17 " (at centre of work)

OWNER(S):

1) CANADIAN INTERNATIONAL MINERALS INC. (75%) 2) COMMERCE RESOURCES CORP. (25%)

MAILING ADDRESS:

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VANCOUVER, BC V6C 1H2

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OPERATOR(S) [who paid for the work]:

1) CANADIAN INTERNATIONAL MINERALS INC. 2)

MAILING ADDRESS:

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VANCOUVER, BC V6C 1H2

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

THE WICHEEDA LAKE AREA IS LOCATED IN THE FORELAND BELT, A TREND OF IMBRICATED AND FOLDED MIOGEOCLINAL ROCKS THAT FORM THE EASTERN MOUNTAIN RANGES AND FOOTHILLS OF THE CANADIAN CORDILLERA. THE REGIONAL BEDROCK COMPRISES MAINLY LIMESTONE, MARBLE, SILTSTONE, ARGILLITE AND CALCAREOUS SEDIMENTARY ROCKS OF THE UPPER CAMBRIAN TO LOWER ORDOVICIAN KECHIKA GROUP.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: AR 15944 (1987), AR-16246 (1987), AR 28528 (2006) & AR 32210 (2010-UNDER REVIEW)

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	_____		
Seismic	_____		
Other	_____		
Airborne	_____		
GEOCHEMICAL (number of samples analysed for...)			
Soil 98	_____	TREO 1 (661583)	\$12,076.44
Silt	_____		
Rock	_____		
Other	_____		
DRILLING (total metres; number of holes, size)			
Core	_____		
Non-core	_____		
RELATED TECHNICAL			
Sampling/assaying	_____		
Petrographic	_____		
Mineralographic	_____		
Metallurgic	_____		
PROSPECTING (scale, area)			
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:	\$12,076.44

Report on Geochemical Sampling on the TREO Claim Block of the Carbo Property

Cariboo Mining Division
British Columbia

**BC Geological Survey
Assessment Report
33231**

NTS Map Numbers: 093J/09
Approximate Geographic Coordinates:
54° 31' N, 122° 09' W

Prepared for:
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1.0 Executive Summary

This report was prepared by Mackevoy Geosciences Ltd. on behalf of Canadian International Minerals Inc. It provides a review of the work conducted on the TREO claim block of the Carbo property during the summer 2011 soil sampling program.

The TREO property comprises two contiguous claims (TREO and TREO 1, tenure numbers 661563 and 661583, respectively) covering a total area of 938 hectares. It is located approximately 80 km northeast of Prince George, BC. The property margins are accessible in the summer via maintained gravel Forest Services roads.

The 2011 summer field season comprised soil sampling and spectrometer surveying. Preparation work took place August 3rd to 7th and fieldwork took place from August 13th to 16th. There were 98 samples taken and an area of 0.80 km² was covered. Geochemistry of the soil samples was assessed in the field using a Niton portable X-ray fluorescence unit.

2.0 Introduction

The Carbo property comprises three blocks of MTO claims that are contiguous amongst themselves. This report pertains to the TREO block, approximately 80 km northeast of Prince George, BC. Access to the margins of the property can be achieved in the summer by well maintained gravel roads, but the core of the property is only accessible by helicopter or on foot.

At the time this program was conducted, the property was 100% owned by Canadian International Minerals Inc. The exploration in the summer of 2011 comprised soil sampling.

Information used in the preparation of this report includes public assessment reports, maps, academic publications, information from the 2009 Technical Report on the Carbo Property (Guo, 2009), and the results of surficial exploration work conducted by Mackevoy Geosciences Ltd. during the summers of 2009 and 2010.

Metric units are used throughout this report. All monetary units in this report are in Canadian dollars unless otherwise specified.

Glossary of Abbreviations

Units of Measure

μ	micron	km	kilometre
°C	degrees Celsius	km/h	kilometre per hour
°F	degrees Fahrenheit	km ²	square kilometre
C\$	Canadian dollars	kW	kilowatt
Cal	calorie	L	litre
cm	centimetre	m	metres
cm ²	square centimetre	M	mega (million)
D	day	m ²	square metre
ft, '	foot	m ³ , cu m.	cubic metre
ft/s	foot per second	min	minute
ft ²	squarefoot	m ³ /h	cubic metres per hour
ft ³ , cu ft	cubic foot	opt, oz/st	ounces per short ton
g	gram	oz	troy ounce (31.1035g)
g/l	gram per litre	oz/dmt	ounces per dry metric tonne
g/t	gram per tonne	ppm	part per million
gr/ft ³	grain per cubic foot	s	second
gr/m ³	grain per cubic metre	SD	specific gravity
Ha	hectare	st	short ton
Hp	horsepower	stpa	short ton per year
Hr	hour	stpd	short ton per day
in, "	inch	t	metric tonne
in ²	square inch	tpd	metric tonne per day
J	joule	tph	metric tonne per hour
K	kilo (thousand)	US\$	United States dollar
kcal	kilocalorie	v	volt
kg	kilogram	w	watt
		yr	year

Elements

REE	rare earth element	P	phosphorus
Nb	niobium	Th	thorium
Mo	molybdenum		

3.0 Property Location and Description

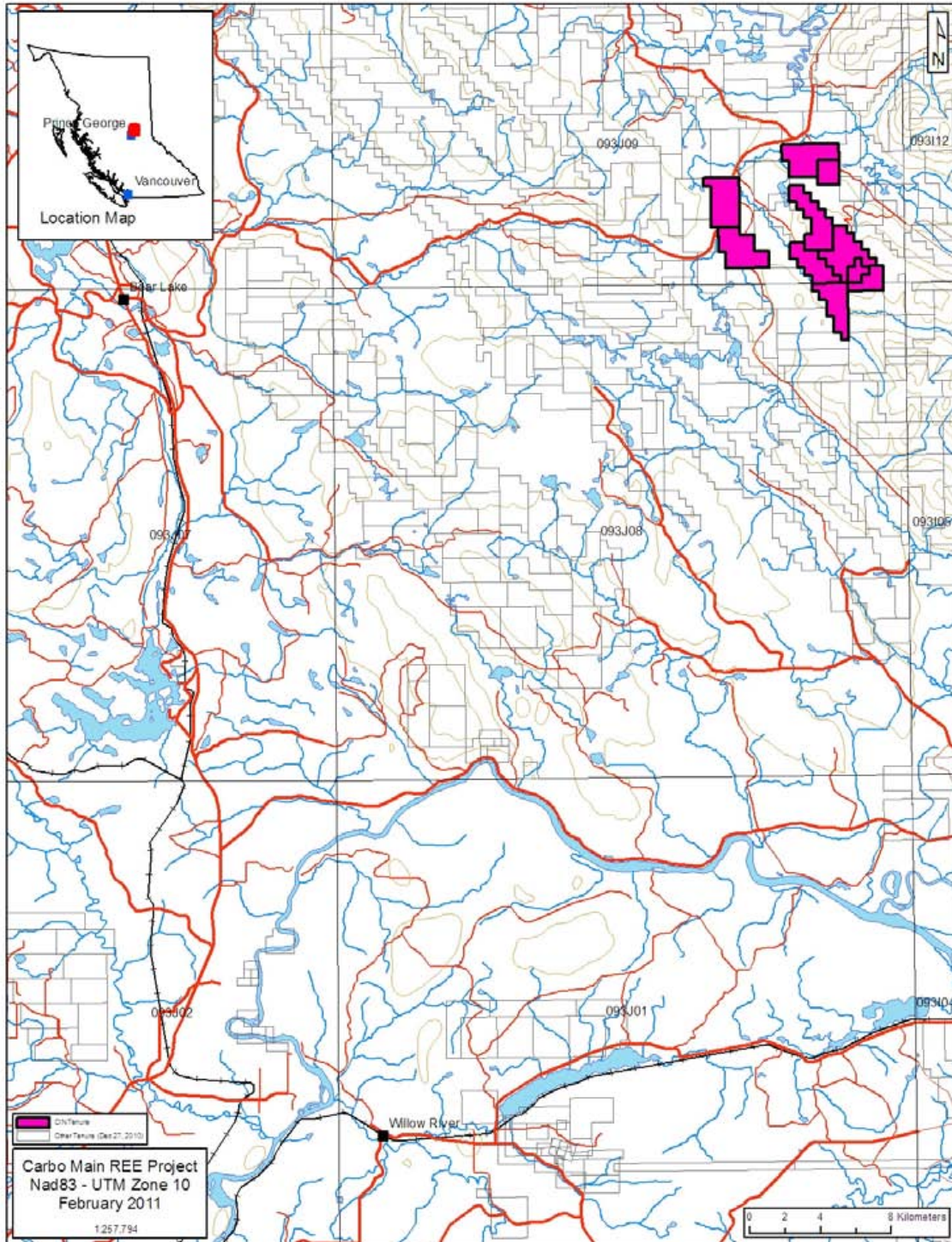


Figure 3.1. Carbo Property Location Map

3.1 Property Location

The Carbo property is located southeast of Wicheeda Lake and lies between the Parsnip River and Wicheika Creek at approximately 54° 30' N, 120° 03' W. It is 80 km northeast of Prince George, B.C., and 50 km east of Bear Lake, B.C. The property is located within NTS map sheets 93J/08 and 93J/09. The location is shown on Figure 3.1.

3.2 Property Description

The Carbo property contains a series of rare earth element and niobium bearing carbonatite and alkaline intrusions. The property comprises ten mineral claims in three contiguous groups. The six core claims are Carbo1, Carbo2, Carbo3, Carbo West, Carbo Extension, and Wichcika, covering a total area of 1,953 hectares; the claims were in good standing at the time of this report. The claims being examined in this report are the TREO and TREO 1 claims, covering a total area of 938 hectares and located to the west of the six core claims. These claims are listed in Table 3.1 and shown on Figure 3.2.

Table 3.1 Carbo Property Claims

Tenure number	Tenure Type	Claim Name	Map Number	Expires	Mining Division	Area (ha)
515430	Mineral Claim	CARBO1	093J09	2021/Dec/31	Cariboo	469
515432	Mineral Claim	CARBO2	093J09	2021/Dec/31	Cariboo	469
515433	Mineral Claim	CARBO3	093J09/08	2021/Dec/31	Cariboo	187
536347	Mineral Claim	CARBO WEST	093J09	2021/Dec/31	Cariboo	338
660563	Mineral Claim	CARBO EXTENSION	093J09/08	2021/May/01	Cariboo	375
834722	Mineral Claim	WICHCIKA	093J09	2021/Oct/01	Cariboo	112
661563	Mineral Claim	TREO	093J09	2011/Dec/01	Cariboo	469
661583	Mineral Claim	TREO 1	093J09	2011/Dec/01	Cariboo	469
661763	Mineral Claim	Basto 1	093J09	2014/Dec/01	Cariboo	450
661603	Mineral Claim	Basto 2	093J09	2014/Dec/01	Cariboo	169

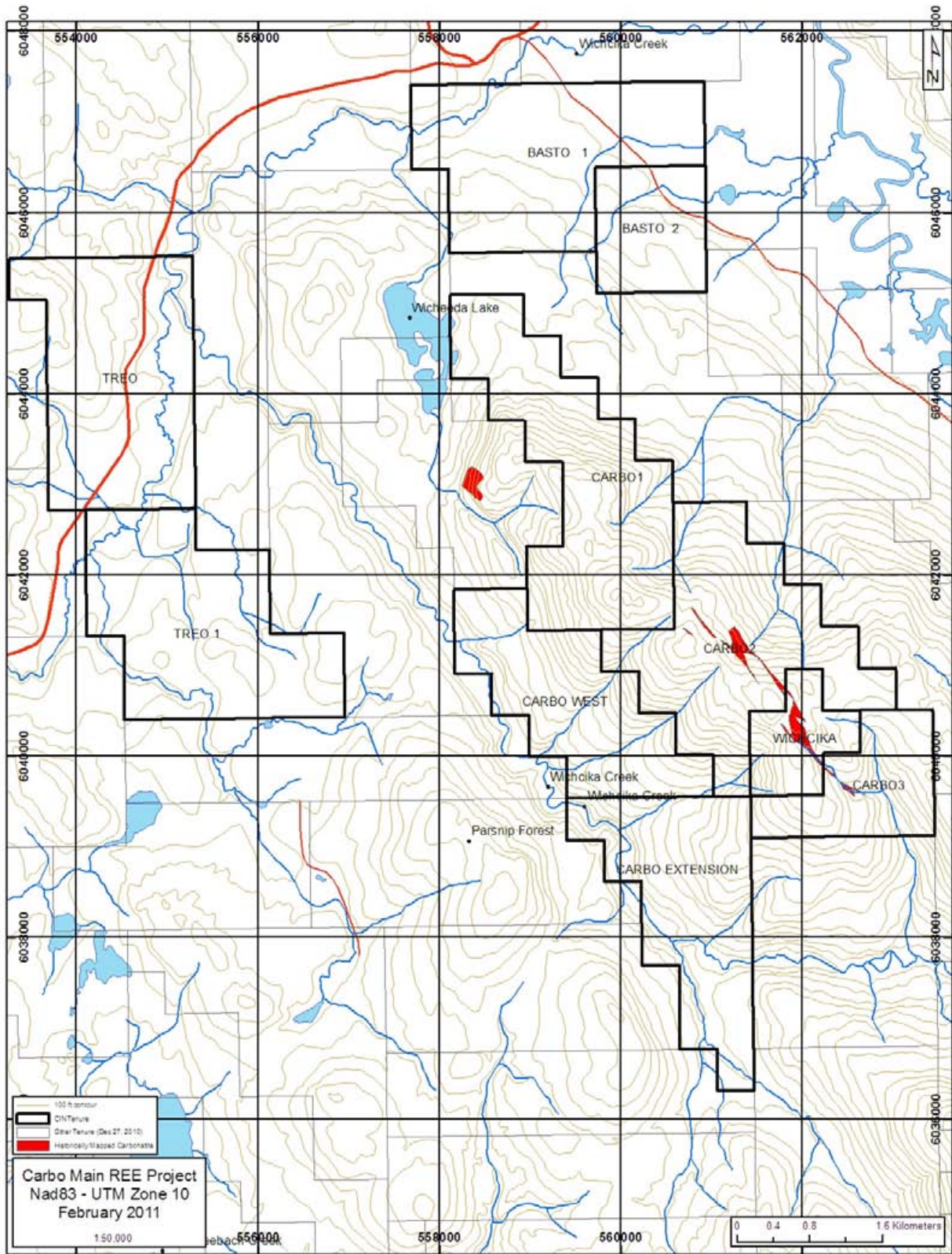


Figure 3.2 Carbo Claims

4.0 Access, Climate, Local Resources, Infrastructure and Physiography

The nearest village is Bear Lake, 50 km to the west. Fuel, accommodations and basic groceries can be found in Bear Lake and all other supplies can be purchased in Prince George. Camping is available at the Crooked River Campground, 5 km from Bear Lake, and there are a number of roughly cleared areas from logging activity that would also make suitable camps.

The claims can be accessed by taking B.C. Highway 97 from Prince George, followed by the No. 700 gravel road from the village of Bear Lake towards the Chuchinka FSR and Arctic Lakes FSR. These maintained Forest Service Roads and unmaintained logging roads allow access to the northeast and southwest edges of the property. From these points access to within the property boundaries is limited to helicopter or hiking.

The property is located between 750 to 950 metres above sea level. To the northeast of the ridge is the Parsnip River valley and to the southwest is Wicheika Creek. Wicheeda Lake lies north of the main claim block. The vegetation around the property is thick, with devil's club and buck brush dominating lower elevations and on the slopes leading up to the ridge. The ridge is covered by alder and white pine. Bedrock exposure is limited in many areas, especially at lower elevations.

The climate is characterized by short, warm summers and long winters. Daily mean temperatures recorded at Prince George range from -14 °C in January to +22 °C in July. Average yearly snowfall is 216 cm and average yearly rainfall is 419 cm.

5.0 Exploration History

In 1961 the Geological Survey of Canada completed a 1:63360 aeromagnetic survey across parts of BC, including the Wicheeda Lake district (Guo and Dahrouge, 2006). This survey showed a magnetic anomaly around the district. In 1969 mapping of the area was completed by Armstrong et al. (Mader and Greenwood, 1987).

From 1976 to 1977 Kol Lovang prospected and staked two claims in the area based on minor base metal showings (Betmanis, 1987). There was no follow up on these showings until 1986, when Teck Corporation assayed the samples and they showed anomalous niobium.

In 1979 mapping was completed by Taylor and Scott (Mader and Greenwood, 1987).

Teck Exploration Ltd. (Teck) entered a prospecting agreement with Lovang in 1986 and proceeded to stake the Ole claims in April (Betmanis, 1987). Teck personnel explored the main intrusive by geological mapping, soil sampling, hand trenching and geophysics. Stream silt sampling of the Wicheika Creek drainage basin was completed. The results prompted Teck to stake additional claims (PG1, PG2, Fata, Morgana, Prince, Lake and George) and outline initial areas for exploration. Due to the continuous nature of the claims, the claims were combined into two groups: the Prince and George. The Prince and George grids were chosen for follow up work based on the sampling. The Lake, D and F grids were also chosen to run reconnaissance grids in order to investigate secondary silt anomalies with later fill in on the Lake grid. As the intrusive became more defined further claims were staked. Mapping was carried out at 1:5000 scale. Results from the season included a sample from trench pit-6, which had 0.955% Nb₂O₅, and three samples from trench PT 5-7 that had high concentrations of niobium and REE values.

In 1987 Teck completed a trenching, silt and soil sampling program (Lovang and Meyer, 1987). Three hand trenches were dug on the George grid, totalling 87 m and with chip samples every five m. Stream sampling was completed from a stream that enters Wicheeda Lake from the south. 37 silt samples were collected and panned with a 20-mesh screen to concentrate the samples. Three soil samples were taken from a tributary gully. Results from the season included several soil samples with high concentrations of REE values.

Jody Dahrouge acquired the bulk of the property in 2005 and 2006 on behalf of Commerce Resource Corp. ("Commerce"). Soil sampling, rock sampling, and geophysical surveys were completed by Dahrouge Geological Consulting Ltd. for Commerce. Exploration focused within the Carbo2 and Carbo3 claims included 291 soil samples collected at 50 m stations on 150 m grid lines, 40 rock samples taken from intrusive outcrops, bedrock and float and 15 km of scintillometer and magnetometer surveys at 12.5 m stations on 150 m grid lines (Guo and Dahrouge, 2006). Results from rock samples averaged 1741.84 ppm TREO+Y and 708.72 ppm Nb.

Dahrouge followed up on the 2006 results in 2007 on behalf of Commerce. Follow up included 54 soil samples taken at 50 m intervals, five rock samples from alkaline intrusive outcrops and 11 rock samples from mainly phyllite outcrops along with some sedimentary (Guo and Dahrouge, 2007). The five rocks

samples averaged 1208.92 ppm TREO+Y and 607.98 ppm Nb. Five km of scintillometer surveys were also completed at 12.5 m stations.

In February 2009, Commerce entered into a Joint Venture with Canadian International Minerals Inc. ('CIN'). Under this joint venture CIN acquired a 75% interest in the Carbo claims. In April 2009, Michael Guo, P.Geol., summarized the work on the property in the form of a NI-43-101 compliant Technical Report for Canadian International Minerals.

In 2009, CIN contracted Mackevoy Geosciences Ltd. to conduct reconnaissance exploration on their claim block. A total of 17 rock, 45 silt, and 56 soil samples were collected between July 12th and 15th, 2009. Promising values were returned from all sample types, with a new thin carbonatite dyke in outcrop being discovered on the SW flank of Wicheeda Ridge and confirmation of REE ± Nb mineralisation of the historical carbonatite on the ridgetop.

In 2010, CIN again contracted Mackevoy Geosciences Ltd. to conduct exploration on the claim block. The field work included soil sampling, prospecting and reconnaissance work and took place in June, August and September (Turner et al., 2011). A total of 420 soil, 21 rock, and 10 silt samples were taken. Results from the sampling included soil samples returning maximum concentrations of 7620 ppm Ce, 2670 ppm La, and 9564 ppm TREO+Y and rock samples returning value up to 4875 ppm TREO+Y. The report also stated that total REE values and La show strong correlations with Ce and rough correlations with Nb.

6.0 Geological Setting

6.1 Regional Geology

The Wicheeda carbonatite complex is located in the Foreland belt, a trend of imbricated and folded miogeoclinal rocks that form the eastern mountain ranges and foothills of the Canadian Cordillera. The carbonatites and alkaline complexes of the belt are dominantly of Mississippian to Devonian age, and include the Aley, Kechika, Bearpaw, Ice River and Rock Canyon occurrences.

The regional bedrock comprises mainly limestone, marble siltstone, argillite and calcareous sedimentary rocks of the upper Cambrian to lower Ordovician Kechika Group. It strikes northwest (120° to 140°) and dips subvertically to the northwest and southwest (Minefile 093J/014). To the west rocks of the Kechika Group are in fault contact with quartzitic rocks of the Upper Proterozoic to Permian Gog Group and unassigned Devonian to Permian felsic volcanic rocks. The northwest trending Rocky Mountain Trench, which likely follows the Parsnip River valley, dominates the structural and geographical setting of the region.

Pell (1987) summarized a number of carbonatite related complexes in BC, which are typically sub-circular to elongate in plan and commonly have well developed metasomatic alteration haloes. Many of these intrusions follow the trend of the Rocky Mountain Trench, are Devono-Mississippian in age and are thought to have a strong relationship to the margin of ancestral North America. These complexes have been subjected to sub-greenschist facies metamorphism and have seen variable amounts of deformation.

6.2 Property Geology

The property is underlain by upper Cambrian and lower Ordovician Kechika Group sedimentary rocks (Armstrong et al., 1969 and Massey et al., 2005). The Kechika group in this area consists mainly of interbedded limestone with calcareous argillite and phyllite (Guo, 2009). Dike and sill-like carbonatite and syenite plugs intrude the group. Mapped faults are usually parallel to Wickeika Creek ($040^{\circ}/050^{\circ}$ NW), with the exception of one fault that strikes northeast.

Teck Corporation (Betmanis, 1987) mapped portions of the Carbo property in 1986. These areas were the Prince and George grids. Work completed on the Prince grid suggests that the grid is underlain by limestone, calcareous argillite and phyllite. Limestones to the southwest are siltier, whereas to the northeast lithologies are mostly massive white limestone with thinly bedded medium to dark grey limestone. The southwest part of the grid also includes interbedded light-grey calcareous argillite and weakly calcareous phyllite.

Teck Corporation mapped several dike or sill-like alkaline intrusions. The main intrusion is sub parallel to the bedding orientation of the host lithology. The intrusions are carbonatitic or syenitic, range in colour from white to black and are often rich in pyroxene. Betamanis (1987) described the carbonatites as coarse to medium grained, generally quartz free and containing feldspar carbonate, pyroxene and

micas, with pyrite present as an accessory mineral. Fine grained pyrochlore was identified using an electron microprobe.

7.0 Mineralization

Carbonatites and associated alkaline intrusive rocks are the host rocks for the rare earth element (REE) and niobium mineral occurrences at Wicheeda. This trend stretches approximately 7 km in a north westerly fashion along the ridge crest. In general, carbonatites can form intrusive plugs, dikes or sills and usually occur within alkali complexes with other silica under-saturated alkaline rocks. They are composed of greater than 50% carbonate minerals and classified on the presence of calcite, dolomite, ferrocarbonate minerals and natrocarbonate minerals. Carbonatites have been known to contain anomalous concentrations of REE's, niobium, phosphorus, uranium, thorium, copper, iron, titanium, barium, fluorine, zirconium and other rare or incompatible elements.

High magnetic anomalies do not appear to correlate strongly with high radiometric anomalies on the Carbo Main claims; however, the carbonatite structures do provide significant magnetic differences from their adjacent host rocks. Magnetic anomalies do not seem to be correlated with elemental enrichments of ore minerals or pathfinders. Ground and airborne magnetic surveys are useful for delineating possible intrusive rocks that may or may not be mineralised.

Elevated radioactivity observed during scintillometer surveys was caused by elevated thorium concentrations. There is a relatively strong relationship between thorium (Th) content (radioactivity) and niobium and REE concentrations in mineralized samples; however, overall levels of Th are relatively low. Geochemically, the elements Ba and Sr have been used as ore vectors; however, there is not an unambiguous relationship between these elements and REE or Nb.

8.0 Summary of 2011 Exploration Fieldwork

The TREO 2011 fieldwork took place from August 13 to 16th, 2011. Fieldwork was focused on soil sampling to help identify prospective areas for further evaluation. The individuals involved from Mackevoy Geosciences Ltd. were as follows:

Mallory L. Dalsin (B.Sc. U of A 2007)

Shaun Todd

Geoff Quist

Dasha Gristankeo

David Cameron

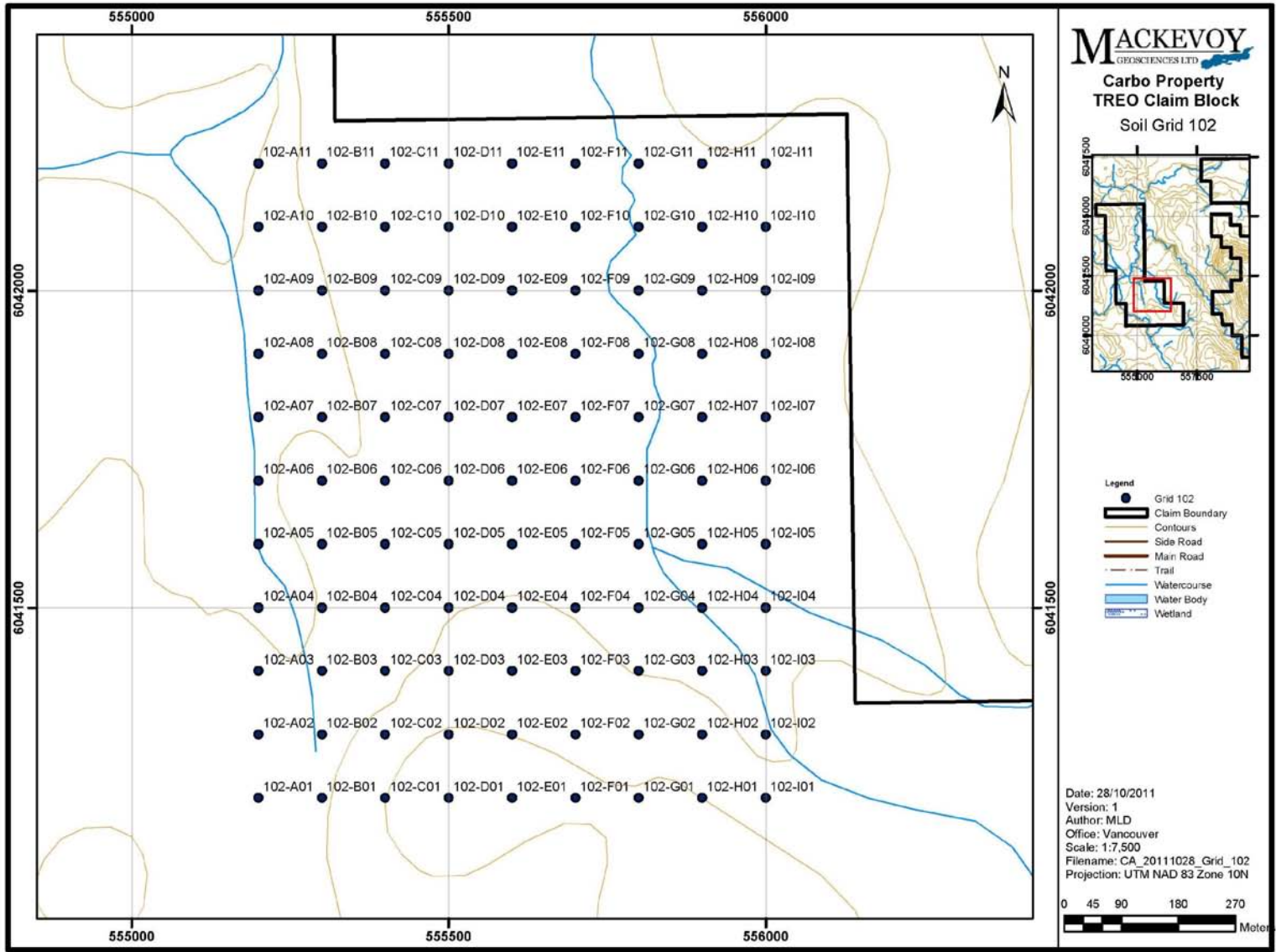
Communications, logistical and computer support was provided by Lee Groat and David Turner from offices in Vancouver and Victoria, respectively. Transportation to the site was by truck (rentals from National and Enterprise) and by foot to within the claims.

8.1 Scope of the Work

During the 2011 field season 98 samples were collected from one grid on the TREO claims. This grid was designed due to its proximity to known prospective ground. The spatial location of the grid is shown in Figure 8.1. All of the grid lines were spaced 100 meters apart and oriented north-south. Samples were collected every 100 meters along the grid lines, using a hand held auger at an average depth of 30 centimetres, and targeted the B horizon whenever possible. These samples were packaged into kraft soil sample bags from each site and were subsequently dried at camp. They were then analyzed within the kraft soil sample bag using a Niton XRF. Each sample was analyzed three times: once on each side of the bag and in a third random spot. These three analyses were then averaged. Values that were below detection were set to 0.

Soil sampling was accompanied by use of a handheld GPS-paired RS-125 Gamma Ray spectrometer capable of discriminating K, U, and Th from total counts. Thorium can be used for honing in on anomalous areas of radioactivity possibly related to REE mineralization when compared against the background of the bedrock. Overall radioactivity was not high; however, the signal of prospective rocks was distinct from that of non-mineralized areas. A total of 1849 georeferenced points were collected with the RS-125 Super-Spec portable spectrometer.

Figure 8.1. TREC Claims Soil Sampling Grid - Locations



8.2 Results

It should be noted that the geochemistry in soil samples will provide a mixed signal of underlying and upslope bedrock as well as from glacially derived material (Turner, 2011). The stability of minerals in weathering conditions and solubility of species will also play a role in the distribution of elements. For the purposes of this report it is assumed that the REE minerals are either not readily broken down or, in the case that they are, that the released REE do not travel far. It should also be noted that results from the Niton XRF should not be used in the same way as an assay but can still provide relative geochemical information and effective target vectoring. Glacial transport in the region is from SSW towards NNE.

Table 8.1 shows the statistics of the sample data. There are some elevated LREE, Nb, and Sr compared to the average. Overall Th, and U are low throughout the grid.

Table 8.1 Statistics of Soil Geochemistry

Element	Average	Min	Max	Median	Skewness
La (ppm)	8.76	0.00	81.97	0.00	2.19
Ce(ppm)	16.79	0.00	133.41	0.00	2.02
Nd(ppm)	23.44	0.00	185.07	0.00	1.98
Pr(ppm)	12.27	0.00	141.97	0.00	2.71
Ca(ppm)	8479.56	1672.09	24313.40	7616.12	2.75
Nb(ppm)	9.31	3.06	26.21	9.56	0.78
Sr(ppm)	37.48	5.70	78.01	36.65	0.27
Th(ppm)	11.09	1.95	24.39	10.57	0.46
U(ppm)	0.13	0.00	2.64	0.00	3.88
Y(ppm)	10.63	0.00	27.84	11.58	-0.26

Based on the figures below, the distribution of the elements over the sampling area does not appear to be significantly concentrated in one particular location on the grid. The REE's are weakly concentrated through the center of the grid with a few elevated samples in the south east corner. Thorium is spread fairly evenly throughout the grid.

Figure 8.8 shows the handheld spectrometer total counts that were collected; this also shows elevated values in the center part of the grid as well as on the north east corner of the grid. Overall the mass spectrometer detected low abundances of Th, U, and K as seen in Table 8.2.

Table 8.2 Statistics of Data from the RS-125 Handheld Mass Spectrometer (n=1849)

Element	Min	Average	Max
Th (ppm)	0	4.73	21.5
U (ppm)	0	0.68	4
K (%)	0	0.58	3.5

Figure 8.2. TREC Claims Soil Sampling Grid – Ce (from P-XRF data)

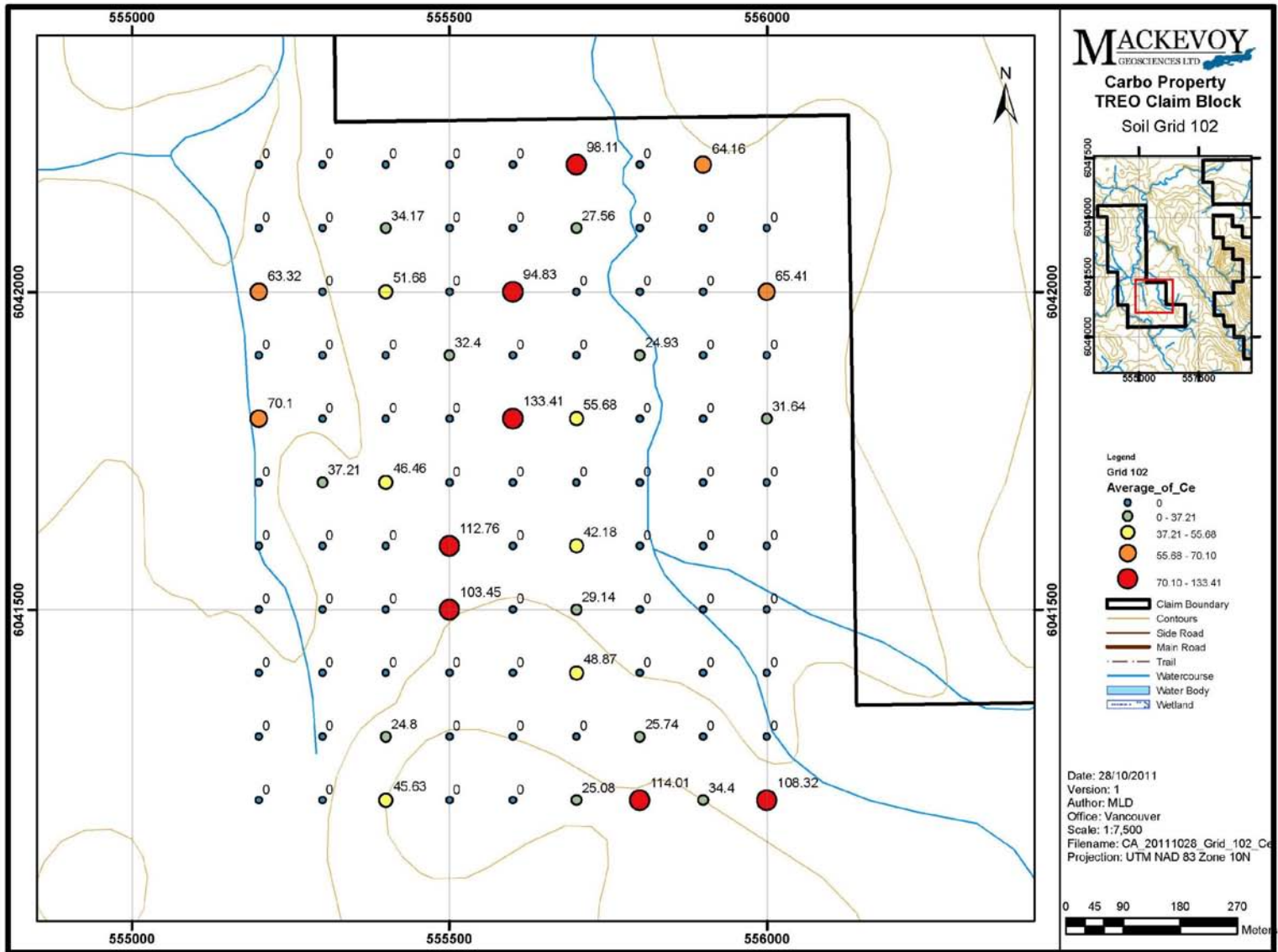


Figure 8.3. TREO Claims Soil Sampling Grid – La (from P-XRF data)

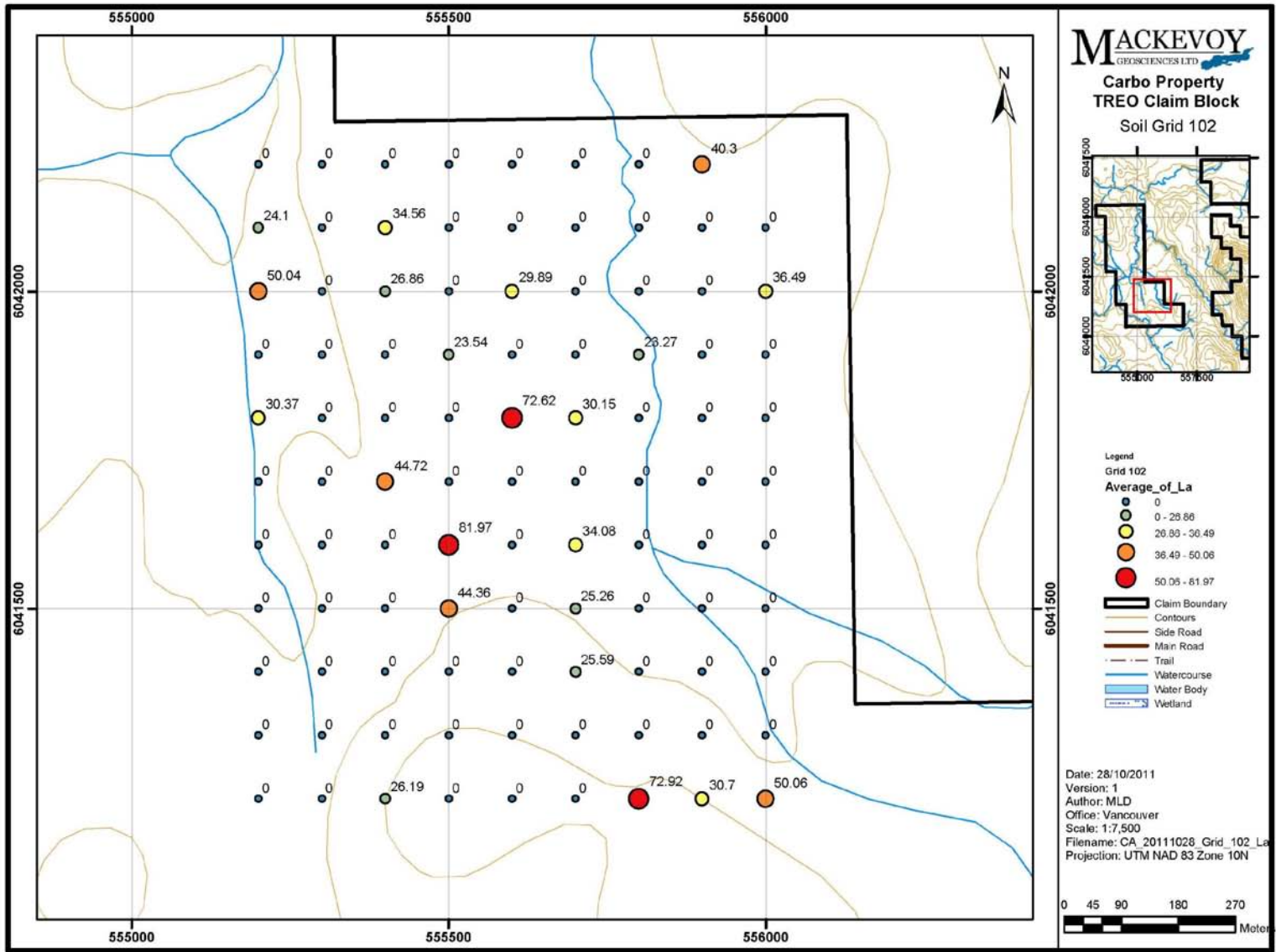


Figure 8.4. TREO Claims Soil Sampling Grid – Nd (from P-XRF data)

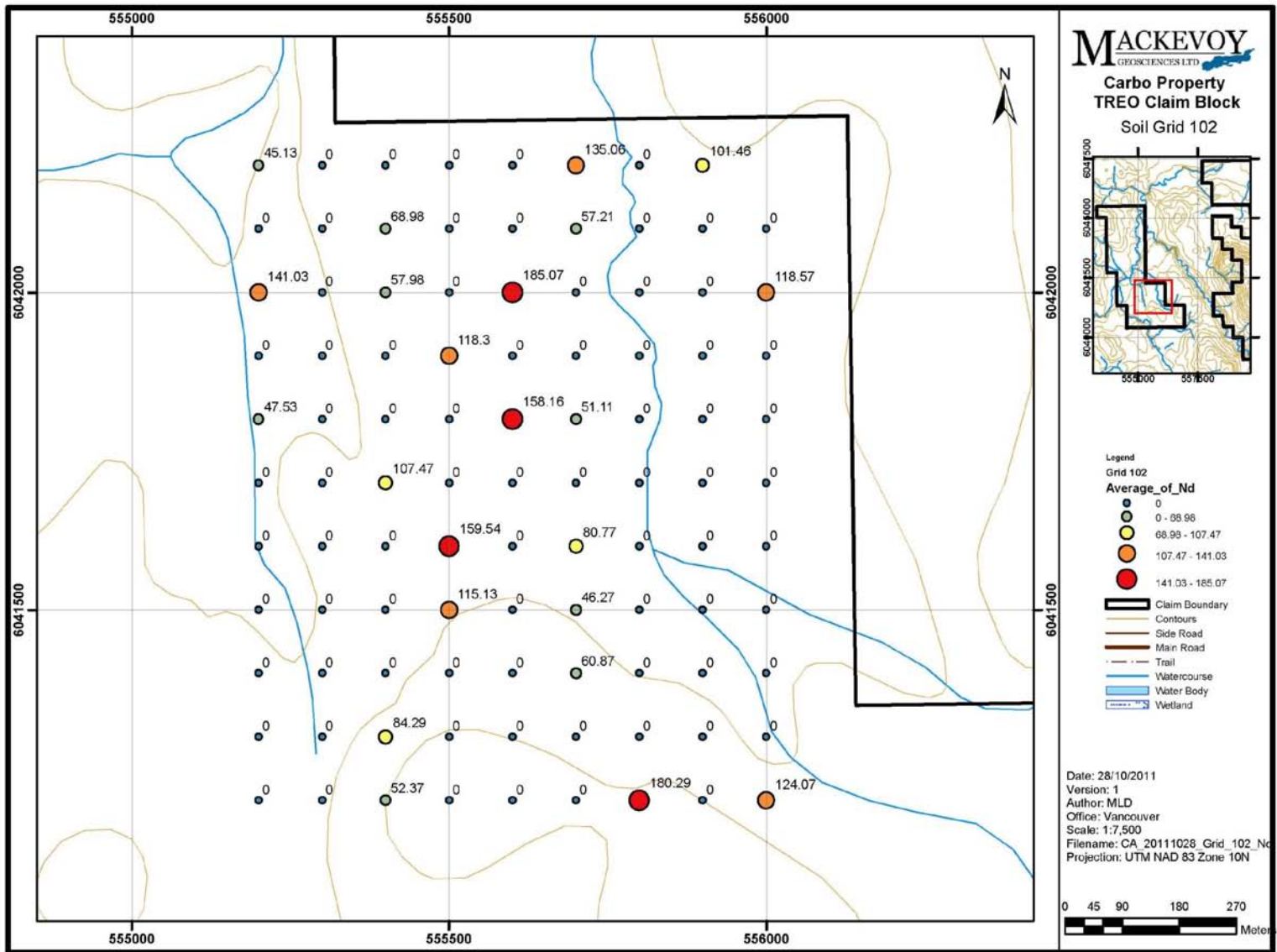


Figure 8.5. TREO Claims Soil Sampling Grid – Th (from P-XRF data)

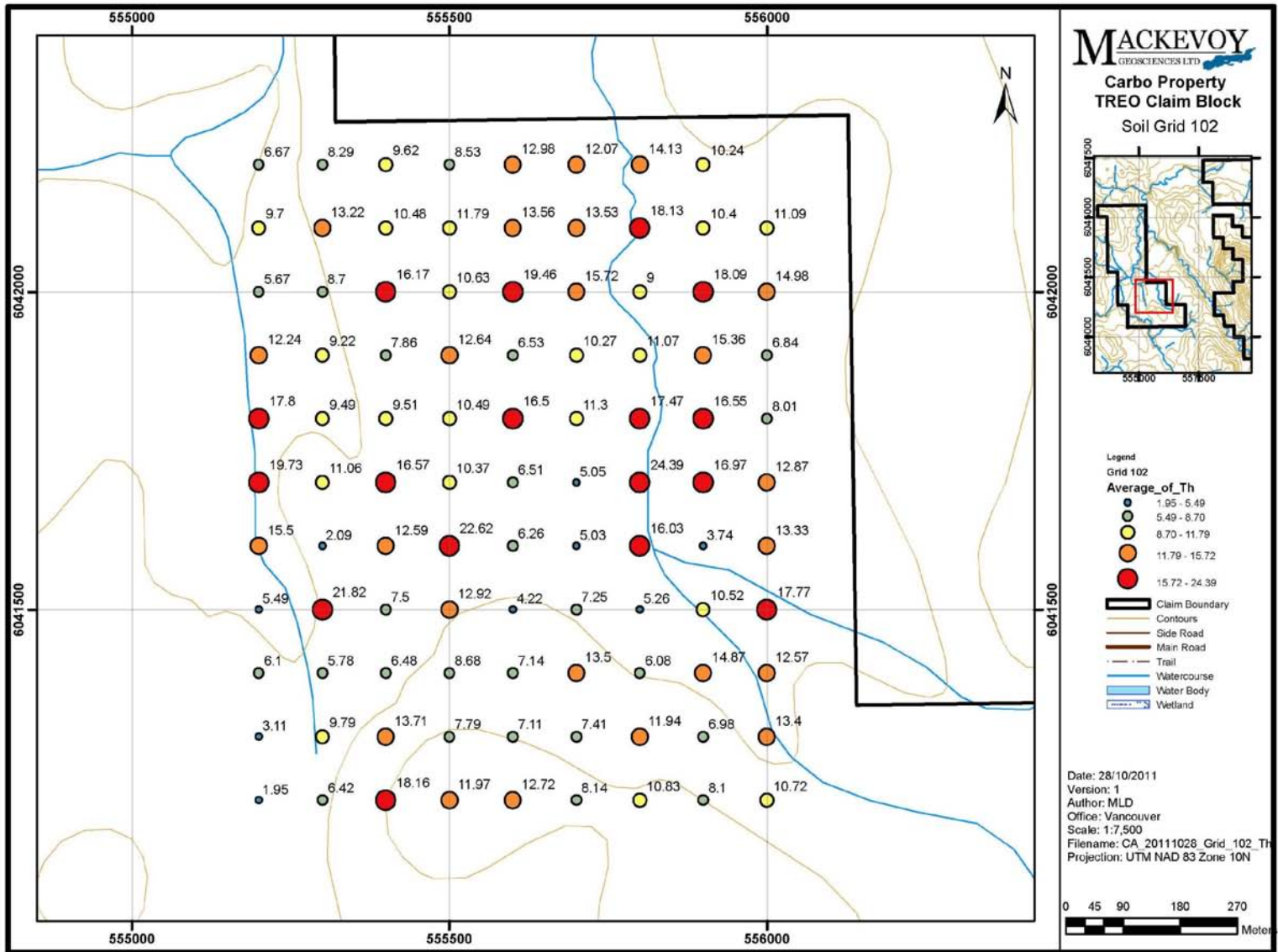


Figure 8.6. TREC Claims Soil Sampling Grid – Nb (from P-XRF data)

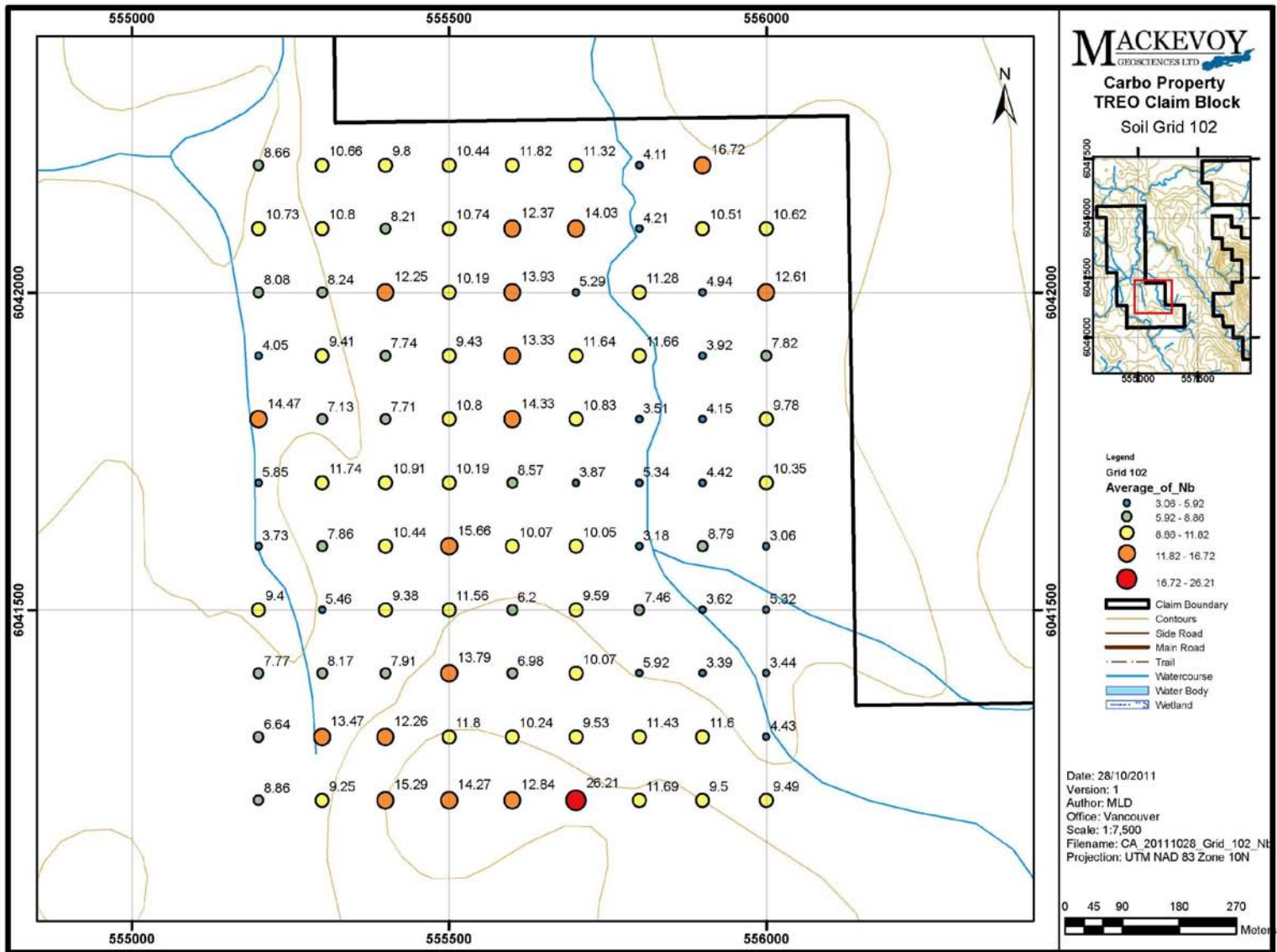


Figure 8.7. TREO Claims Soil Sampling Grid – Sr (from P-XRF data)

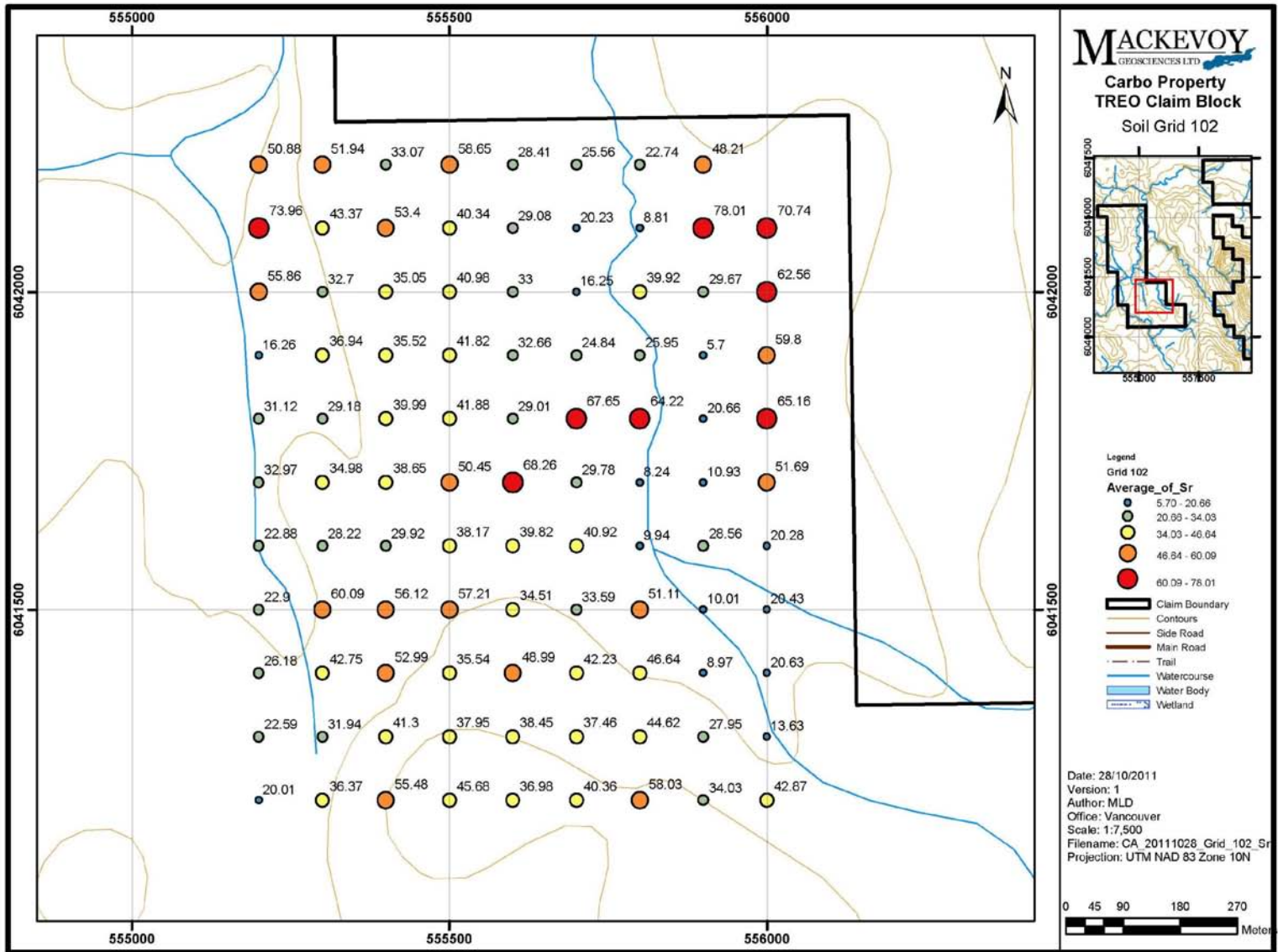
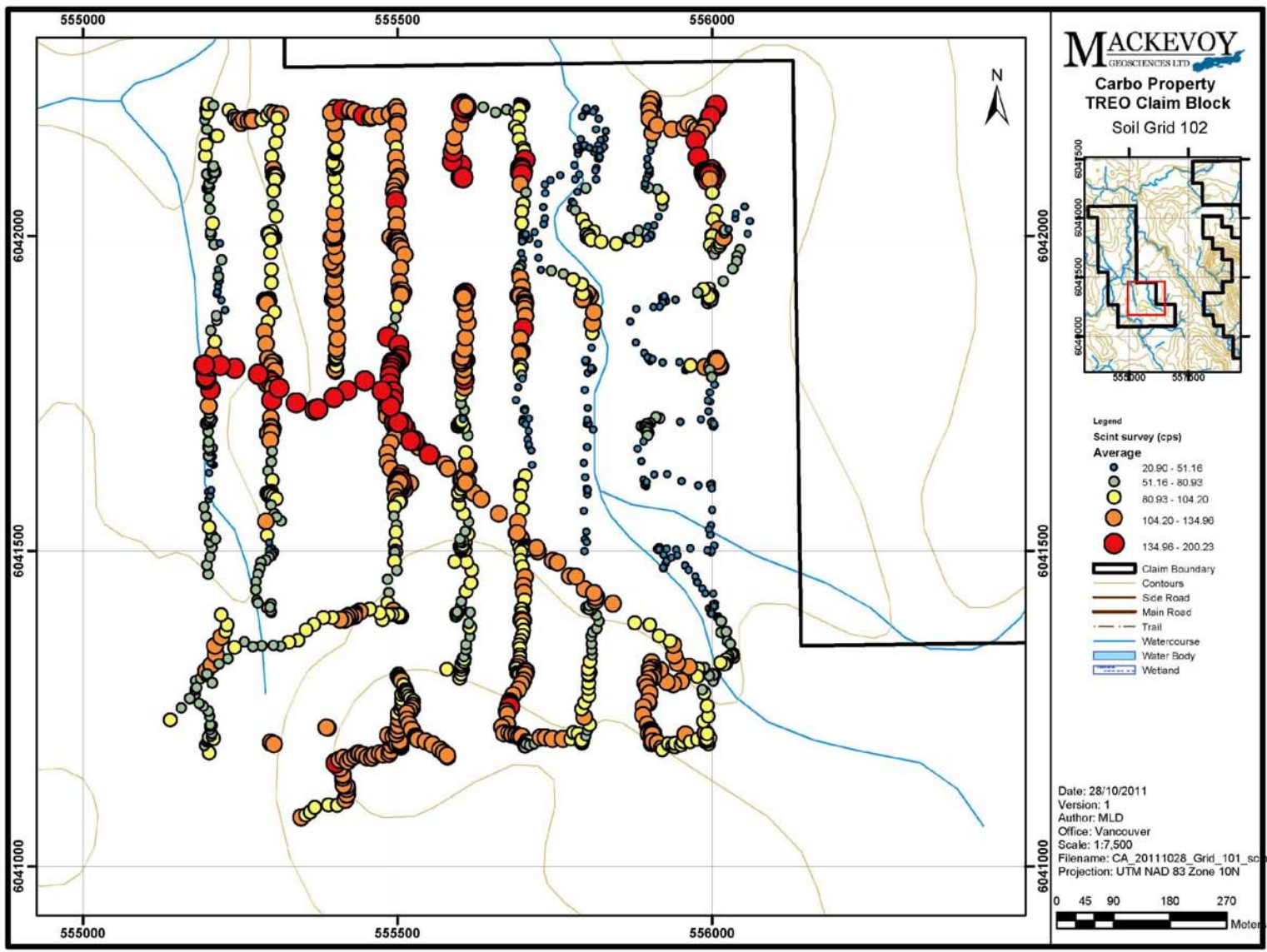


Figure 8.8. TREC Claims Soil Sampling Grid – RS-125 Total Counts



The following six elements from the Niton XRF analyses were looked at in detail amongst all of the samples: Ce, La, Nd, Th, Nb and Sr. Correlation plots were made of these elements versus Ce. Cerium has a weak correlation between La and Nd and a very weak correlation with Th. There does not appear to be any significant correlation between Ce and Nb or Sr.

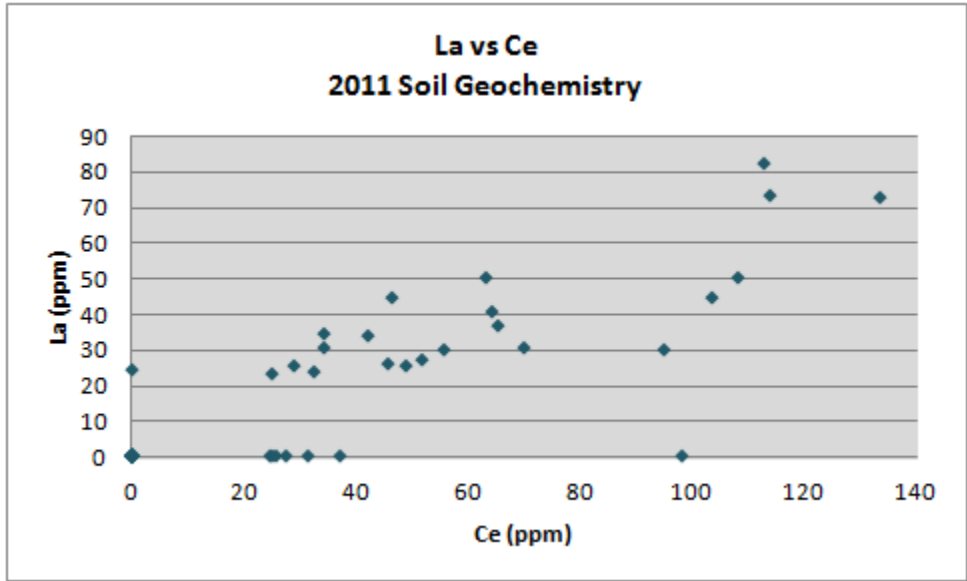


Figure 8.9. TREO Claims Soil Sampling Geochemistry – La vs. Ce (from P-XRF data)

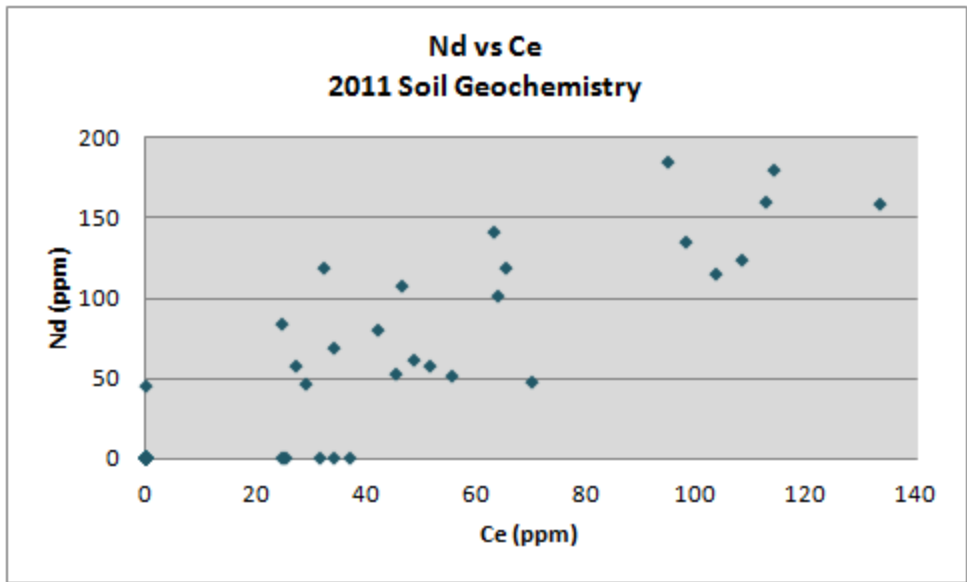


Figure 8.10. TREO Claims Soil Sampling Geochemistry – Nd vs. Ce (from P-XRF data)

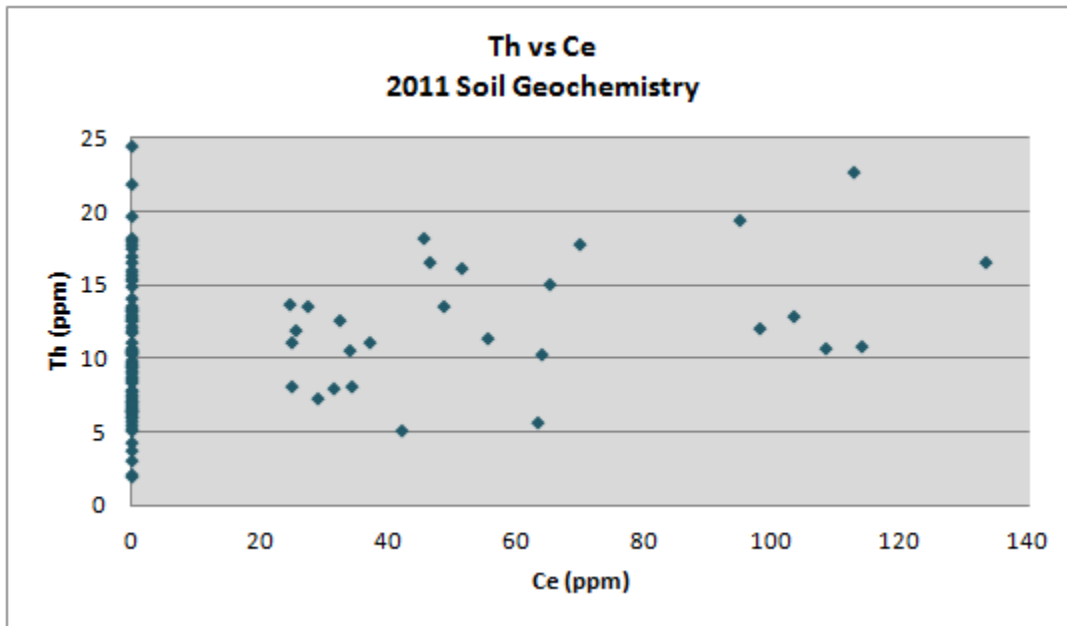


Figure 8.11. TREO Claims Soil Sampling Geochemistry – Th vs. Ce (from P-XRF data)

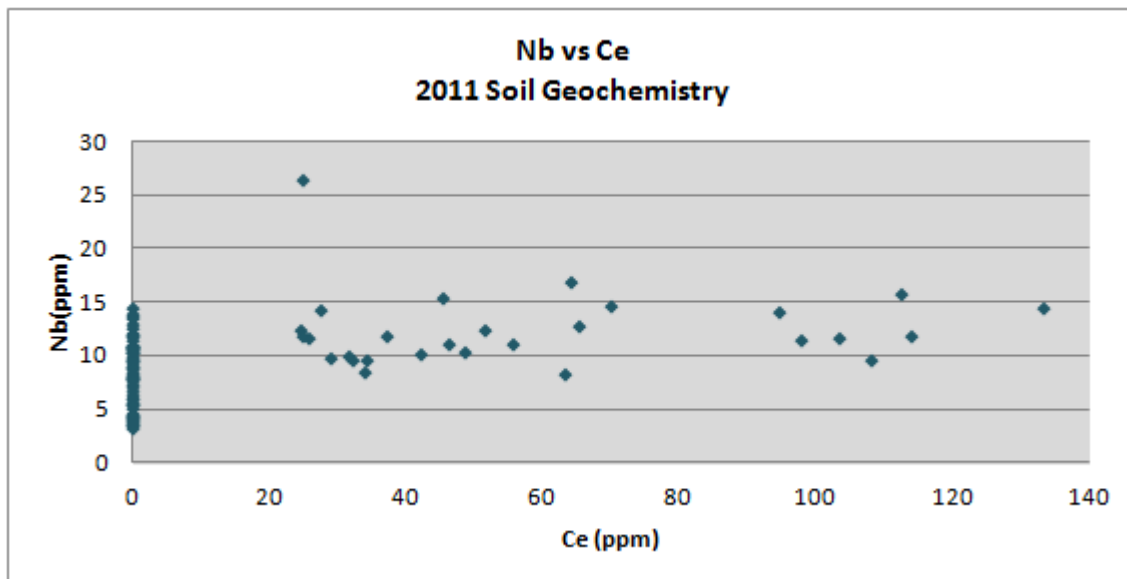


Figure 8.12. TREO Claims Soil Sampling Geochemistry – Nb vs. Ce (from P-XRF data)

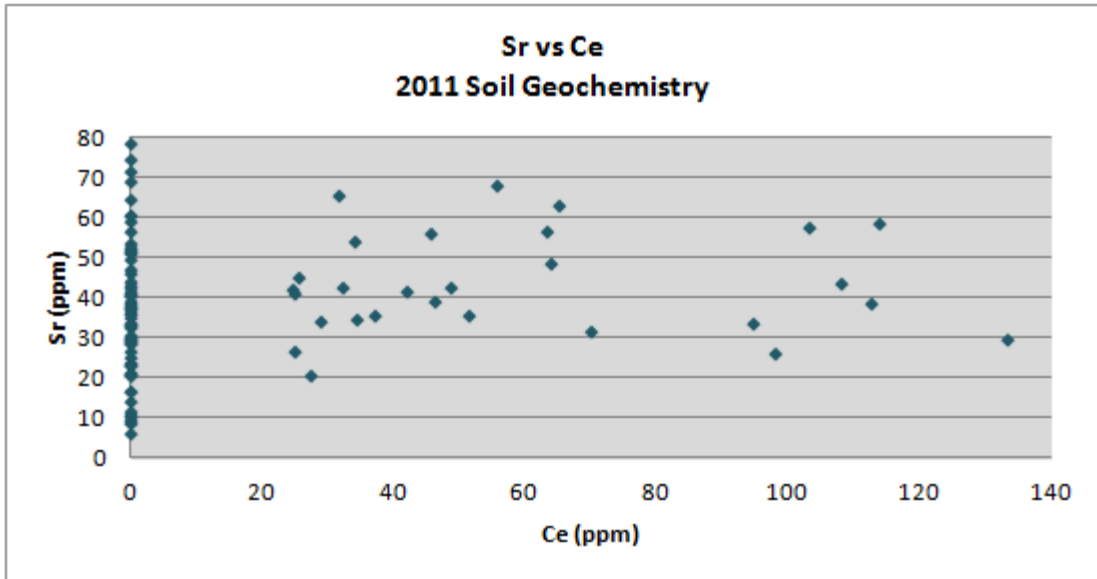


Figure 8.13. TREO Claims Soil Sampling Geochemistry – Sr vs. Ce (from P-XRF data)

9.0 Discussion and Recommendations

The 2011 exploration program consisted of four days of soil sampling in mid August. The soil sampling showed some weakly elevated REE values in the center of the grid as well as anomalous scintillometer counts. This area should be further investigated with more closely spaced soil sampling and/or prospecting/mapping and expansion of the soil grid.

10.0 Expenditures

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Mallory Dalsin, Project Geologist	August 3rd to 7th and August 13th to 16th	0.67	\$562.50	\$376.88	
Luke Marshall, Geologist		0.67	\$500.00	\$335.00	
Shaun Todd, Geology Student		1.33	\$375.00	\$498.75	
Geoff Quist, Soil Sampler		5.33	\$375.00	\$1,998.75	
Dasha Gristankeo, Geology Student		5.33	\$375.00	\$1,998.75	
David Cameron, Soil Sampler		5.33	\$281.25	\$1,499.06	
David Turner, Geologist		0.67	\$750.00	\$502.50	
Lee Groat, Geologist		0.33	\$1,500.00	\$495.00	
Michael Shuss	Supervision	1	\$500.00	\$500.00	
Albert Isadore	Assistant for M. Schuss	1	\$275.00	\$275.00	
				\$8,479.69	\$8,479.69
Office Studies	List Personnel (note - Office only, do not include field days)				
Literature search			\$0.00	\$0.00	
Database compilation			\$0.00	\$0.00	
Computer modelling			\$0.00	\$0.00	
Reprocessing of data			\$0.00	\$0.00	
General research			\$0.00	\$0.00	
Report preparation	Shaun Todd	0.3	\$375.00	\$112.50	
Other (specify)				\$0.00	
				\$112.50	\$112.50
Airborne Exploration Surveys	Line Kilometres / Enter total invoiced amount				
Aeromagnetics			\$0.00	\$0.00	
Radiometrics			\$0.00	\$0.00	
Electromagnetics			\$0.00	\$0.00	
Gravity			\$0.00	\$0.00	
Digital terrain modelling			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Remote Sensing	Area in Hectares / Enter total invoiced amount or list personnel				
Aerial photography			\$0.00	\$0.00	
LANDSAT			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Ground Exploration Surveys	Area in Hectares/List Personnel				
Geological mapping					
Regional					
Reconnaissance					
Prospect					
Underground					
Trenches				\$0.00	\$0.00
Ground geophysics	Line Kilometres / Enter total amount invoiced list personnel				
Radiometrics					
Magnetics					
Gravity					

Digital terrain modelling
 Electromagnetics
 SP/AP/EP
 IP
 AMT/CSAMT
 Resistivity
 Complex resistivity
 Seismic reflection
 Seismic refraction
 Well logging
 Geophysical interpretation
 Petrophysics
 Other (specify)

					\$0.00	\$0.00
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Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Drill (cuttings, core, etc.)			\$0.00	\$0.00	
Stream sediment			\$0.00	\$0.00	
Soil			\$0.00	\$0.00	
Rock			\$0.00	\$0.00	
Water			\$0.00	\$0.00	
Biogeochemistry			\$0.00	\$0.00	
Whole rock			\$0.00	\$0.00	
Petrology			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00

Drilling	No. of Holes, Size of Core and Metres	No.	Rate	Subtotal	
Diamond			\$0.00	\$0.00	
Reverse circulation (RC)			\$0.00	\$0.00	
Rotary air blast (RAB)			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00

Other Operations	Clarify	No.	Rate	Subtotal	
Trenching			\$0.00	\$0.00	
Bulk sampling			\$0.00	\$0.00	
Underground development			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00

Reclamation	Clarify	No.	Rate	Subtotal	
After drilling			\$0.00	\$0.00	
Monitoring			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	

Transportation		No.	Rate	Subtotal	
Airfare			\$0.00	\$0.00	
Taxi			\$0.00	\$0.00	
truck rental	1 truck from Enterprise	5.67	\$125.73	\$712.89	
	1 truck from Enterprise (M. Schuss)	1.00	\$125.73	\$125.73	
kilometers			\$0.00	\$0.00	

ATV			\$0.00	\$0.00	
fuel	\$28.33 per day	5.67	\$28.33	\$160.63	
Helicopter (hours)			\$0.00	\$0.00	
Fuel (litres/hour)			\$0.00	\$0.00	
Other					
				\$999.25	\$999.25
Accommodation & Food	Rates per day				
Hotel	day rate \$99 per room	1.67	\$99.00	\$165.00	
	M. Schuss	1.00	\$99.00	\$99.00	
Camp	day rate \$50	5.00	\$50.00	\$250.00	
Meals	day rate per person \$50	18.67	\$50.00	\$933.50	
				\$1,447.50	\$1,447.50
Miscellaneous					
Telephone	Satellite phone	5.00	\$7.50	\$37.50	
Other (Specify)					
				\$37.50	\$37.50
Equipment Rentals					
Field Gear (Specify)	RS-125 portable mass spec x2	5.00	\$200.00	\$1,000.00	
Other (Specify)					
				\$1,000.00	\$1,000.00
Freight, rock samples					
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$0.00	\$0.00
TOTAL Expenditures					\$12,076.44

11.0 References

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12.0 Statement of Qualifications

I, Mallory L. Dalsin, resident of Vancouver, British Columbia, do certify that:

1. I graduated from the University of Alberta in June 2007 with a B.Sc. Honours in Geology
2. I have practiced my profession as a geologist since 2007 and have worked on mineral exploration projects throughout Canada and Mexico.
3. From 2007 to 2008 I was registered as a Geologist in Training, G.I.T., with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.
4. From 2008 I have been registered as a Geologist in Training, G.I.T., with the Association of Professional Engineers and Geosciences of British Columbia.
5. I have personally participated in the logistical support, fieldwork and analysis of data for the filed undertakings herein.

Dated at Vancouver this 27th day of November, 2011

A handwritten signature in blue ink that reads "Mallory Dalsin". The signature is written in a cursive style and ends with a long horizontal line extending to the right.

Mallory Dalsin, B.Sc., G.I.T.

Date Sampled	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Error (m)	Sample Depth (cm)	Soil Type	Color	Float?	Comments	Date/Time Nitoned	Sample	Nitoner	Total	LREO (La-Sm)	HREO (Eu-Lu+Y)	HREO/TREO (%)	Y	La	Ce	Pr	Nd	K	U	Th	Ba	Sr	Nb
2011-08-13	Dasha	Geoff, David	102-A01		102	A	555201	6041197	5	30	Sand	fairly dark brown	N/A		16-08-2011 19:14	102-A01	DTC	0.0009	0.0000	0.0009	100.0%	7.29	<LOD	<LOD	<LOD	<LOD	1983.87	<LOD	5.85	160.32	21.1	8.75
2011-08-13	Dasha	Geoff, David	102-A02		102	A	555188	6041296	8	20	Sand	orange brown	N/A		16-08-2011 18:27	102-A02	DTC	0.0016	0.0000	0.0016	100.0%	12.77	<LOD	<LOD	<LOD	<LOD	3037.27	<LOD	4.97	<LOD	23.74	5.57
2011-08-13	Dasha	Geoff, David	102-A03		102	A	555208	6041403	5	30	Sandy Loam	med brown	N/A		16-08-2011 18:20	102-A03	DTC	0.0013	0.0000	0.0013	100.0%	9.85	<LOD	<LOD	<LOD	<LOD	1275.97	<LOD	7.79	103.56	25.91	8.65
2011-08-13	Dasha	Geoff, David	102-A04		102	A	555204	6041510	5	20	Sandy Loam	brown/orange	N/A		16-08-2011 18:13	102-A04	DTC	0.0011	0.0000	0.0011	100.0%	8.79	<LOD	<LOD	<LOD	<LOD	1749.08	<LOD	5.58	82.53	22.31	8.4
2011-08-13	Dasha	Geoff, David	102-A05		102	A	555198	6041583	4	100	Organics	black	N/A	Swamp	16-08-2011 18:05	102-A05	GMQ	0.0000	0.0000	0.0000	#DIV/0!	<LOD	<LOD	<LOD	<LOD	<LOD	530.74	3.58	15.23	<LOD	20.92	3.67
2011-08-13	Dasha	Geoff, David	102-A06		102	A	555199	6041703	4	30	Organics	black	N/A	Swamp	16-08-2011 16:21	102-A06	GMQ	0.0000	0.0000	0.0000	#DIV/0!	<LOD	<LOD	<LOD	<LOD	<LOD	667.14	<LOD	18.45	<LOD	36.89	5.59
2011-08-13	Dasha	Geoff, David	102-A07		102	A	555205	6041799	5	30	Sand	light brown/gray	small phyllite pieces 1-2cm wide, no fizz		15-08-2011 17:01	102-A07	GMQ	0.0017	0.0000	0.0017	100.0%	13.02	<LOD	<LOD	<LOD	<LOD	1498.88	<LOD	15.36	310.78	27.64	16.67
2011-08-13	Dasha	Geoff, David	102-A08		102	A	555198	6041908	7	30	Organics	black	N/A		14-08-2011 14:53	102-A08	DG	0.0000	0.0000	0.0000	#DIV/0!	<LOD	<LOD	<LOD	<LOD	<LOD	1042.69	<LOD	12.89	<LOD	14.41	4.33
2011-08-13	Dasha	Geoff, David	102-A09		102	A	555201	6042000	3	30	Clay	med brown	N/A		14-08-2011 14:47	102-A09	DG	0.0013	0.0000	0.0013	100.0%	9.94	<LOD	<LOD	<LOD	<LOD	1816.13	<LOD	<LOD	134.1	55.96	7.12
2011-08-13	Dasha	Geoff, David	102-A10		102	A	555202	6042103	5	20	Clay	beige	N/A		14-08-2011 14:41	102-A10	DG	0.0021	0.0000	0.0021	100.0%	16.59	<LOD	<LOD	<LOD	<LOD	1013.62	<LOD	9.24	167.14	72.08	11.36
2011-08-13	Dasha	Geoff, David	102-A11		102	A	555195	6042212	5	30	Clay	light brown/orange	N/A		14-08-2011 14:34	102-A11	DG	0.0015	0.0000	0.0015	100.0%	12.07	<LOD	<LOD	<LOD	<LOD	2348.69	<LOD	6.05	70.14	53.36	7.69
2011-08-13	Geoff	Dasha, David	102-B01		102	B	555303	6041205	5	20	Loam	Med Brwn	N/A		17-08-2011 08:42	102-B01	DTC	0.0013	0.0000	0.0013	100.0%	10.33	<LOD	<LOD	<LOD	<LOD	1169.95	<LOD	5.66	189.3	33.66	9.76
2011-08-13	Geoff	Dasha, David	102-B02		102	B	555302	6041297	7	30	Loam	Med Brwn	N/A		17-08-2011 08:57	102-B02	DTC	0.0015	0.0000	0.0015	100.0%	11.78	<LOD	<LOD	<LOD	<LOD	4388.23	<LOD	10.33	131.34	34.44	14.96
2011-08-13	Geoff	Dasha, David	102-B03		102	B	555298	6041404	5	60	Clay	Gray/Brwn	N/A		17-08-2011 09:09	102-B03	DTC	0.0020	0.0000	0.0020	100.0%	15.91	<LOD	<LOD	<LOD	<LOD	2240.52	<LOD	5.88	67.99	41.91	6.92
2011-08-13	Geoff	Dasha, David	102-B04		102	B	555298	6041501	3	30	Organics	Black	N/A	Swamp	17-08-2011 09:22	102-B04	DTC	0.0003	0.0000	0.0003	100.0%	2.08	<LOD	<LOD	<LOD	<LOD	954.26	<LOD	25.77	<LOD	74.5	5.05
2011-08-13	Geoff	Dasha, David	102-B05		102	B	555299	6041598	4	25	Loam	Med Brwn	N/A		17-08-2011 09:59	102-B05	DTC	0.0012	0.0000	0.0012	100.0%	9.18	<LOD	<LOD	<LOD	<LOD	1369.7	<LOD	<LOD	62.69	28.66	8.57
2011-08-13	Geoff	Dasha, David	102-B06		102	B	555300	6041701	6	25	Loam	Light Gray/Brwn	Phyllite - No fizz		17-08-2011 10:07	102-B06	DTC	0.0017	0.0000	0.0017	100.0%	13.17	<LOD	<LOD	<LOD	<LOD	3862.66	<LOD	9.94	200.16	35.04	12.33
2011-08-13	Geoff	Dasha, David	102-B07		102	B	555300	6041797	3	50	Clay	Gray/Brwn	N/A	some organics	17-08-2011 10:33	102-B07	DTC	0.0016	0.0000	0.0016	100.0%	12.94	<LOD	<LOD	<LOD	<LOD	5533.51	<LOD	12.17	<LOD	26.72	7.89
2011-08-13	Geoff	Dasha, David	102-B08		102	B	555294	6041896	4	40	Loam	Med Brwn	N/A		17-08-2011 10:52	102-B08	DTC	0.0020	0.0000	0.0020	100.0%	15.8	<LOD	<LOD	<LOD	<LOD	3128.53	<LOD	8.91	151.17	37.05	9.58
2011-08-13	Geoff	Dasha, David	102-B09		102	B	555299	6042000	5	30	Loam	Med Brwn	No fizz		17-08-2011 11:09	102-B09	DTC	0.0013	0.0000	0.0013	100.0%	10.44	<LOD	<LOD	<LOD	<LOD	3978.51	<LOD	9.49	124.6	38.98	8.36
2011-08-13	Geoff	Dasha, David	102-B10		102	B	555306	6042101	4	30	Sand	Med Brwn	Phyllite		17-08-2011 11:20	102-B10	DTC	0.0020	0.0000	0.0020	100.0%	16.11	<LOD	<LOD	<LOD	<LOD	2225.64	<LOD	13.76	187.63	44.71	9.67
2011-08-13	Geoff	Dasha, David	102-B11		102	B	555304	6042199	5	25	Loam	Med Brwn	N/A		17-08-2011 11:34	102-B11	DTC	0.0018	0.0000	0.0018	100.0%	13.8	<LOD	<LOD	<LOD	<LOD	2146.24	<LOD	7.21	156.75	52.61	10.67
2011-08-13	David	Dasha, Geoff	102-C01		102	C	555395	6041203	9	30	Sandy Loam	Brown	Sub angular float(w/few pieces) no fizz, grayish brwn		17-08-2011 11:43	102-C01	DTC	0.0576	0.0547	0.0028	4.9%	22.29	78.58	136.89	95.39	157.11	5547.78	<LOD	18.59	176.27	59.77	14.75
2011-08-13	David	Dasha, Geoff	102-C02		102	C	555404	6041299	8	25	Loam	Brown	N/A		17-08-2011 11:52	102-C02	DTC	0.0163	0.0146	0.0017	10.5%	13.58	<LOD	<LOD	<LOD	125.39	2890.7	<LOD	15.66	<LOD	40.58	11.78
2011-08-13	David	Dasha, Geoff	102-C03		102	C	555397	6041406	7	50	Clay	Light Brwn	N/A		17-08-2011 12:09	102-C03	DTC	0.0024	0.0000	0.0024	100.0%	19.07	<LOD	<LOD	<LOD	<LOD	2108.24	<LOD	5.99	61.19	52.93	8.45
2011-08-13	David	Dasha, Geoff	102-C04		102	C	555398	6041504	5	30	Clay	Brown	N/A		17-08-2011 12:32	102-C04	DTC	0.0015	0.0000	0.0015	100.0%	12.16	<LOD	<LOD	<LOD	<LOD	3940.44	<LOD	8.52	<LOD	58.66	8.39
2011-08-13	David	Dasha, Geoff	102-C05		102	C	555401	6041590	6	30	Sandy Loam	Light Brwn	lots of phyllite (small, 0.5-2cm)		17-08-2011 12:45	102-C05	DTC	0.0019	0.0000	0.0019	100.0%	15.35	<LOD	<LOD	<LOD	<LOD	4337.8	<LOD	12.82	176.55	32.4	10.23
2011-08-13	David	Dasha, Geoff	102-C06		102	C	555402	6041692	5	40	Loam	Med Brown	gray phyllite flakes (2cm across)		17-08-2011 12:55	102-C06	DTC	0.0655	0.0641	0.0015	2.2%	11.57	89.44	92.91	150.57	214.93	4783.24	<LOD	17.37	81.01	41.53	10.95
2011-08-14	Geoff	David	102-C07		102	C	555402	6041801	4	50	Clay	Grey	Phyllite shards		Date/Time Nitoned	102-C07	DTC	0.0013	0.0000	0.0013	100.0%	9.98	<LOD	<LOD	<LOD	<LOD	3624.03	<LOD	7.18	113.36	41.04	4.81
2011-08-14	Geoff	David	102-C08		102	C	555401	6041900	4	25	Loam	Med Brown	Small Pebbles (1 cm)		17-08-2011 14:41	102-C08	DTC	0.0012	0.0000	0.0012	100.0%	9.49	<LOD	<LOD	<LOD	<LOD	2721.56	<LOD	7.8	<LOD	35.48	7.56
2011-08-14	Geoff	David	102-C09		102	C	555399	6041998	3	80	Gravel/Clay	Grey	Lots of Phyllite shards		17-08-2011 15:11	102-C09	DTC	0.0533	0.0511	0.0022	4.2%	17.62	80.58	80.05	102.47	173.95	5826.26	<LOD	18.77	139.53	37.84	12.84
2011-08-14	Geoff	David	102-C10		102	C	555400	6042103	5	35	Loam	Pale Brown	Small pebbles (.5 cm)		17-08-2011 15:24	102-C10	DTC	0.0019	0.0000	0.0019	100.0%	15.35	<LOD	<LOD	<LOD	<LOD	3121.12	<LOD	11.21	141.35	52.52	8.1
2011-08-14	Geoff	David	102-C11		102	C	555402	6042198	6	30	Loam	Med Brown	Phyllite and subangular black float (less than 1cm)		17-08-2011 15:35	102-C11	DTC	0.0017	0.0000	0.0017	100.0%	13.55	<LOD	<LOD	<LOD	<LOD	4376.47	<LOD	10.65	173.24	32.12	9.72
2011-08-16	Dasha	David	102-I11		102	I	555999	6042191	5	25	Loam	Black/Brown	N/A		18-08-2011 16:54	102-I11	DG	0.0017	0.0000	0.0017	100.0%	13.35	<LOD	<LOD	<LOD	<LOD	5354.57	<LOD	9.55	167.33	65.4	10.79
2011-08-16	Dasha	David	102-I10		102	I	555996	6042101	4	30	Loam	Brown	A lot of phyllite		18-08-2011 17:02	102-I10	DG	0.0609	0.0581	0.0027	4.5%	21.56	109.47	111.18	97.13</							

2011-08-16	Dasha	David	102-I02		102	I	556004	6041303	5	40	Clay with some smeared organics	Beige	N/A		20-08-2011 09:43	102-I02	DTC	0.0126	0.0102	0.0024	18.7%	18.51	< LOD	87.16	< LOD	< LOD	< LOD	2760.8	< LOD	10.11	185.88	44.49	10.33
2011-08-16	Dasha	David	102-H02		102	H	555901	6041301	5	20	Loam	Orange/Brown	Minor rounded grey pebbles		18-08-2011 15:50	102-H02	DG	0.0013	0.0000	0.0013	100.0%	10.33	< LOD	< LOD	< LOD	< LOD	3893.4	< LOD	7.88	100.48	22.12	4.78	
2011-08-16	Dasha	David	102-H01		102	H	555896	6041205	5	25	Loam	Orange/Brown	N/A		18-08-2011 15:41	102-H01	DG	0.0012	0.0000	0.0012	100.0%	9.57	< LOD	< LOD	< LOD	< LOD	4754.78	< LOD	8.36	169.52	31.56	10.26	
2011-08-16	Dasha	David	102-I01		102	I	555990	6041202	5	80	Clay	Brown/Orange	n/a, minor rounded grey float, no fizz		20-08-2011 16:31	102-I01	DTC	0.0018	0.0000	0.0018	100.0%	14.19	< LOD	< LOD	< LOD	< LOD	4272.58	< LOD	7.87	137.02	46.75	12.34	
2011-08-14	David	Geoff	102-D11		102	D	555496	6042204	6	25	Loam	Mid brown	N/A		18-08-2011 08:03	102-D11	DG	0.0014	0.0000	0.0014	100.0%	11.01	< LOD	< LOD	< LOD	< LOD	3543.46	< LOD	9.47	188.43	57.87	9.03	
2011-08-14	David	Geoff	102-D10		102	D	555500	6042097	7	40	Loam with Gravel	Dark Brown	Lots of phyllite float		18-08-2011 08:10	102-D10	DG	0.0020	0.0000	0.0020	100.0%	16.05	< LOD	< LOD	< LOD	< LOD	5151.5	< LOD	14.72	170.41	41.09	11.6	
2011-08-14	David	Geoff	102-D09		102	D	555500	6041998	6	35	Loam	Brown with a red tint	N/A		18-08-2011 08:17	102-D09	DG	0.0017	0.0000	0.0017	100.0%	13.05	< LOD	< LOD	< LOD	< LOD	7567.75	< LOD	11.8	159.01	42.96	8.6	
2011-08-14	David	Geoff	102-D08		102	D	555501	6041902	10	35	Loam	Dark brown	Phyllite float		18-08-2011 08:24	102-D08	DG	0.0029	0.0000	0.0029	100.0%	23.1	< LOD	< LOD	< LOD	< LOD	4104.58	< LOD	9.9	162.91	41.43	9.59	
2011-08-14	David	Geoff	102-D07		102	D	555495	6041801	6	35	Clayish Loam	Light brown	Phyllite float		18-08-2011 08:31	102-D07	DG	0.0018	0.0000	0.0018	100.0%	14.26	< LOD	< LOD	< LOD	< LOD	5955.12	< LOD	12.48	158.01	42.77	10.65	
2011-08-14	David	Geoff	102-D06		102	D	555500	6041698	6	50	Loam	Mid brown	Phyllite pieces (apprx. 1cm across)		18-08-2011 08:41	102-D06	DG	0.0021	0.0000	0.0021	100.0%	16.26	< LOD	< LOD	< LOD	< LOD	5878.95	< LOD	8.97	192.04	51.5	9.74	
2011-08-14	David	Geoff	102-D05		102	D	555502	6041607	6	30	Sand	brown	Phyllite pieces (apprx. 1cm across)		18-08-2011 08:49	102-D05	DG	0.0737	0.0714	0.0022	3.0%	17.62	115.54	126.81	133.97	234.61	10149.84	< LOD	22.38	227.35	38.81	15.56	
2011-08-14	David	Geoff	102-D04		102	D	555497	6041502	5	30	Loam	brown	a few larger rounded brown rocks		18-08-2011 08:55	102-D04	DG	0.0153	0.0129	0.0024	15.4%	18.56	< LOD	110.41	< LOD	< LOD	5252.13	< LOD	15.09	125.95	53.93	11.39	
2011-08-14	David	Geoff	102-D03		102	D	555500	6041402	4	40	Loam	brown	N/A		18-08-2011 09:08	102-D03	DG	0.0017	0.0000	0.0017	100.0%	13.19	< LOD	< LOD	< LOD	< LOD	3480.16	< LOD	9.26	143.83	33.48	14.22	
2011-08-15	David	Dasha	102-D01		102	D	555504	6041196	8	30	Loam	Brown	A few small brown subangular pebbles, no fizz		18-08-2011 09:27	102-D01	DG	0.0016	0.0000	0.0016	100.0%	12.86	< LOD	< LOD	< LOD	< LOD	4472.97	< LOD	12.44	213.11	46.56	13.58	
2011-08-15	David	Dasha	102-D02		102	D	555502	6041297	6	30	Loam	brown	N/A		18-08-2011 09:21	102-D02	DG	0.0016	0.0000	0.0016	100.0%	12.27	< LOD	< LOD	< LOD	< LOD	2104.47	< LOD	7.56	76.67	41.03	12.57	
2011-08-15	David	Dasha	102-E01		102	E	555596	6041200	5	35	Sandy Loam	light brown	N/A		18-08-2011 09:44	102-E01	DG	0.0017	0.0000	0.0017	100.0%	13.24	< LOD	< LOD	< LOD	< LOD	3219.6	< LOD	13.3	198.99	36.91	13.65	
2011-08-15	David	Dasha	102-E02		102	E	555601	6041297	5	30	Loam	light brown	N/A		18-08-2011 09:52	102-E02	DG	0.0014	0.0000	0.0014	100.0%	11.39	< LOD	< LOD	< LOD	< LOD	2200.79	< LOD	8.36	182.61	41.39	9.93	
2011-08-15	David	Dasha	102-E03		102	E	555596	6041399	4	30	Clayish Loam	grey-brown	1 mid sized round pebble, no fizz.		18-08-2011 10:02	102-E03	DG	0.0018	0.0000	0.0018	100.0%	14.3	< LOD	< LOD	< LOD	< LOD	2848.4	< LOD	6.28	132.37	50.51	7.61	
2011-08-15	David	Dasha	102-E04		102	E	555601	6041502	5	30	Loam	grey brown	N/A		18-08-2011 10:17	102-E04	DG	0.0014	0.0000	0.0014	100.0%	11.3	< LOD	< LOD	< LOD	< LOD	1577.88	< LOD	3.83	64.28	39.19	6.63	
2011-08-15	David	Dasha	102-E05		102	E	555601	6041601	5	30	Sandy Loam	orange	N/A		18-08-2011 10:27	102-E05	DG	0.0014	0.0000	0.0014	100.0%	11.24	< LOD	< LOD	< LOD	< LOD	2971.94	< LOD	6.09	72.73	41.18	10.03	
2011-08-15	David	Dasha	102-E06		102	E	555600	6041700	7	40	Clay	orange brown	N/A		18-08-2011 10:34	102-E06	DG	0.0015	0.0000	0.0015	100.0%	12.19	< LOD	< LOD	< LOD	< LOD	4618.96	< LOD	7.3	131.39	72.92	9.11	
2011-08-15	David	Dasha	102-E07		102	E	555600	6041802	6	45	Sand	yellow-brown	One large rounded pebble (4cm diameter)		18-08-2011 10:46	102-E07	DG	0.0353	0.0333	0.0021	5.9%	16.44	< LOD	141.15	142.94	< LOD	4760.58	< LOD	11.6	152.7	28.06	13	
2011-08-15	David	Dasha	102-E08		102	E	555602	6041901	5	30	Sandy Loam	brown	a few (less than 3cm across) rounded pebbles, no fizz		18-08-2011 10:59	102-E08	DG	0.0012	0.0000	0.0012	100.0%	9.82	< LOD	< LOD	< LOD	< LOD	4624.21	< LOD	6.5	139.75	33.99	8.44	
2011-08-15	David	Dasha	102-E09		102	E	555600	6042002	4	60	Sandy Loam	Orange	Some small phyllite (less than 1 cm across)		18-08-2011 11:05	102-E09	DG	0.0401	0.0382	0.0019	4.7%	14.72	< LOD	124.98	< LOD	202.35	5062.63	< LOD	19.71	286.11	31.92	13.03	
2011-08-15	David	Dasha	102-E10		102	E	555596	6042097	4	25	Loam	Brown	Varied sized phyllite, from 1cm-5cm diameter		18-08-2011 11:21	102-E10	DG	0.0014	0.0000	0.0014	100.0%	11.14	< LOD	< LOD	< LOD	< LOD	5445.95	< LOD	13.53	251.69	28.92	10.28	
2011-08-15	David	Dasha	102-E11		102	E	555601	6042204	4	45	Sandy Loam	Brown	small phyllite pieces		18-08-2011 11:29	102-E11	DG	0.0016	0.0000	0.0016	100.0%	12.89	< LOD	< LOD	< LOD	< LOD	4278.58	< LOD	9.77	226.89	29.35	13.38	
2011-08-16	David	Dasha	102-G04		102	G	555794	6041502	5	90	Clay(with some organics)	Dark Grey	N/A	Bog	18-08-2011 14:49	102-G04	DG	0.0016	0.0000	0.0016	100.0%	12.83	< LOD	< LOD	< LOD	< LOD	4981.1	< LOD	6.39	177.15	59.75	8.29	
2011-08-16	David	Dasha	102-G05		102	G	555801	6041596	6	100	Organics	Black	N/A	Bog	18-08-2011 14:55	102-G05	DG	0.0000	0.0000	0.0000	#DIV/0!	< LOD	< LOD	< LOD	< LOD	< LOD	664.98	< LOD	17.31	< LOD	10.15	3.23	
2011-08-16	David	Dasha	102-G06		102	G	555799	6041701	3	100	Organics	Black	N/A	Really Big bog	18-08-2011 15:01	102-G06	DG	0.0003	0.0000	0.0003	100.0%	2.12	< LOD	< LOD	< LOD	< LOD	1700.91	< LOD	26.5	< LOD	9.16	5.37	
2011-08-16	David	Dasha	102-G07		102	G	555799	6041803	7	100	Organics	Black	N/A	Massive Bog	18-08-2011 15:07	102-G07	DG	0.0000	0.0000	0.0000	#DIV/0!	< LOD	< LOD	< LOD	< LOD	< LOD	1168.94	< LOD	18.58	< LOD	59.89	4.4	
2011-08-16	David	Dasha	102-G08		102	G	555797	6041901	6	30	Sand	Yellow-Orange	Some phyllite and some larger subangular float about 4cm diameter that did not fizz	Hill beside massive bog	18-08-2011 15:13	102-G08	DG	0.0012	0.0000	0.0012	100.0%	9.41	< LOD	< LOD	< LOD	< LOD	2059.33	< LOD	10.09	150.13	22.69	12.93	
2011-08-16	David	Dasha	102-G11		102	G	555798	6042197	5	70	Organics	Black	N/A	Beside big bog	18-08-2011 15:35	102-G11	DG	0.0000	0.0000	0.0000	#DIV/0!	< LOD	< LOD	< LOD	< LOD	< LOD	672.61	< LOD	9.31	< LOD	24.89	3.54	
2011-08-16	David	Dasha	102-G10		102	G	555818	6042122	6	50	Organics	Black	N/A	Point in lake, sample taken from near by	18-08-2011 15:26	102-G10	DG	0.0000	0.0000	0.0000	#DIV/0!	< LOD	< LOD	< LOD	< LOD	< LOD	1031.76	< LOD	17.5	< LOD	8.18	4.73	
2011-08-16	David	Dasha	102-G09		102	G	555804	6041997	6	30	Clayish Loam	Yellow-Brown	N/A		18-08-2011 15:19	102-G09	DG	0.0017	0.0000	0.0017	100.0%	13.47	< LOD	< LOD	< LOD	< LOD	2077.68	< LOD	9.22	193.35	42.56	10.9	
2011-08-16	David	Dasha	102-H09		102	H	555899	6041996	6	50	Organics	Black	N/A	Bog	18-08-2011 16:32	102-H09	DG	0.0000	0.0000	0.0000	#DIV/0!	< LOD	< LOD	< LOD	< LOD	< LOD	1166.09	< LOD	13.62	< LOD	5.05	2.91	
2011-08-16	David	Dasha	102-H10		102	H	555897	6042099	6	50	Organics	Black	N/A		18-08-2011 16:40	102-H10	DG	0.0000	0.0000	0.0000	#DIV/0!	< LOD	< LOD	< LOD	< LOD	< LOD	1027.13	< LOD	19.55	< LOD	29.68	4.33	
2011-08-16	David	Dasha	102-H11		102	H	555901	6042208	8	25	Sand	Yellow-Brown	a few mid sized (apprx. 3cm diameter) rounded grey float	Beside Bog	18-08-2011 16:46	102-H11	DG	0.0018	0.0000	0.0018	100.0%	13.9	< LOD	< LOD	< LOD	< LOD	5202.67	< LOD	9.51	165.56	78.7	10.87	

Rock Samples

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Error (m)	Elevation (m)	Rock Sample Location Description	Rock Sample Description	Mineralogy	Associated Outcrop	# of Plain Light Photos		Comments
2011-08-13	Dasha	Geoff, David	11-DG-021	984688	102	A	555194	6041775	5	876	centre of outcrop	phyllite, slightly altered? Brownish.light gray in colour, v foliated (sheeted) and very soft	too fine grained to tell	OC-11-DG-091			
2011-08-13	Geoff	David, Dasha	11-GMQ-014		102	C	555300	6041392	5		near top of ridge, small stream (1ft wide)	med brown SILT	N/A	N/A	1	0	SILT SAMPLE

Scint Assay

Date	Name	Name 2	Scint Assay #	Grid #	Line #	Easting	Northing	Error (m)	Elevation (m)	Scint Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments	
2011-08-13	Dasha	Geoff, David	___-A27604	102	A	555194	6041775	5	876	right side of OC	phyllite, slightly altered? Brownish, light gray in colour, v foliated (sheeted) and very soft	300	121.4	nGY/h	3.5	3.4	21.5	OC-11-DG-091	Associated RS: 11-DG-021	

Assays
Project:
Carbo
UTMS: NAD
83 Zone 10

Element	Atomic Number	Atomic Weight	REE2O3 Weight	Conversion Factor	Conversion Factor/10000
Y	39	88.90585	225.8099	1.26993837	0.000126994
La	57	138.9055	325.8091	1.17277289	0.000117277
Ce	58	140.116	328.2302	1.17128022	0.000117128
Pr	59	140.9077	329.8135	1.17031794	0.000117032
Nd	60	144.242	336.4822	1.1663808	0.000116638
Pm	61	145	337.9982	1.16551103	0.000116551
Sm	62	150.36	348.7182	1.15961093	0.000115961
Eu	63	151.964	351.9262	1.15792622	0.000115793
Gd	64	157.25	362.4982	1.15261749	0.000115262
Tb	65	158.9254	365.8489	1.15100863	0.000115101
Dy	66	162.5	372.9982	1.14768677	0.000114769
Ho	67	164.9303	377.8588	1.14551054	0.000114551
Er	68	167.259	382.5162	1.14348466	0.000114348
Tm	69	168.9342	385.8666	1.14206181	0.000114206
Yb	70	173.04	394.0782	1.13869105	0.000113869
Lu	71	174.9668	397.9318	1.13716374	0.000113716