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Vancouver, BC

**RIMFIRE PROJECT  
REPORT OF JULY 2011  
SOIL SAMPLING (conventional)**

Cariboo Mining Division  
NTS 093A. 033

**BC Geological Survey  
Assessment Report  
32479**

Center of Project  
Lat. 52° 22' 0"  
Long. 121° 34' 00"

**Claim worked: 518839 (formerly Legacy Claims PD-1 to 4 incl.)**

**Owned and Operated by  
Herb Wahl & Jack Brown-John**

**Prepared by:  
Herb J. Wahl, P.Eng. B.C.  
RR# 10, 1416 Ocean Beach Esplanade  
Gibsons, B.C. V0N 1V3  
Phone: 604-886-8522**

**August 2011**

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**32479**

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Dated 24 August 2011

### Results of 2011 Soil Sampling

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- Fig. D** Distribution of Pb in Soils. Scale as shown (in pocket)
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## SUMMARY

This report describes the results of geochemical soil sampling conducted on the Rim Mineral Claims, Cariboo M.D., during the period 14-21 July 2011 inclusive.

The property is located some 6-7 km west of Horsefly Village fronting the Horsefly highway and Beaver Valley road. Abbot Lake and Finger Lake lie within the perimeter.

The claims are situated within the Triassic Quesnel Trough volcanic belt and are underlain by Triassic basalts cut by later syenitic plugs. Drift cover amounts to 99% by area, with deepest overburden encountered so far to 30 m.

Some 99 soil samples were collected on machete/power saw cut lines to expand the 2009 soils grid. The project was successful, identifying a compound Cu-Pb-Zn-Ag soil anomaly > 1 km long within the northern sector of the Central Shear Zone (CSZ).

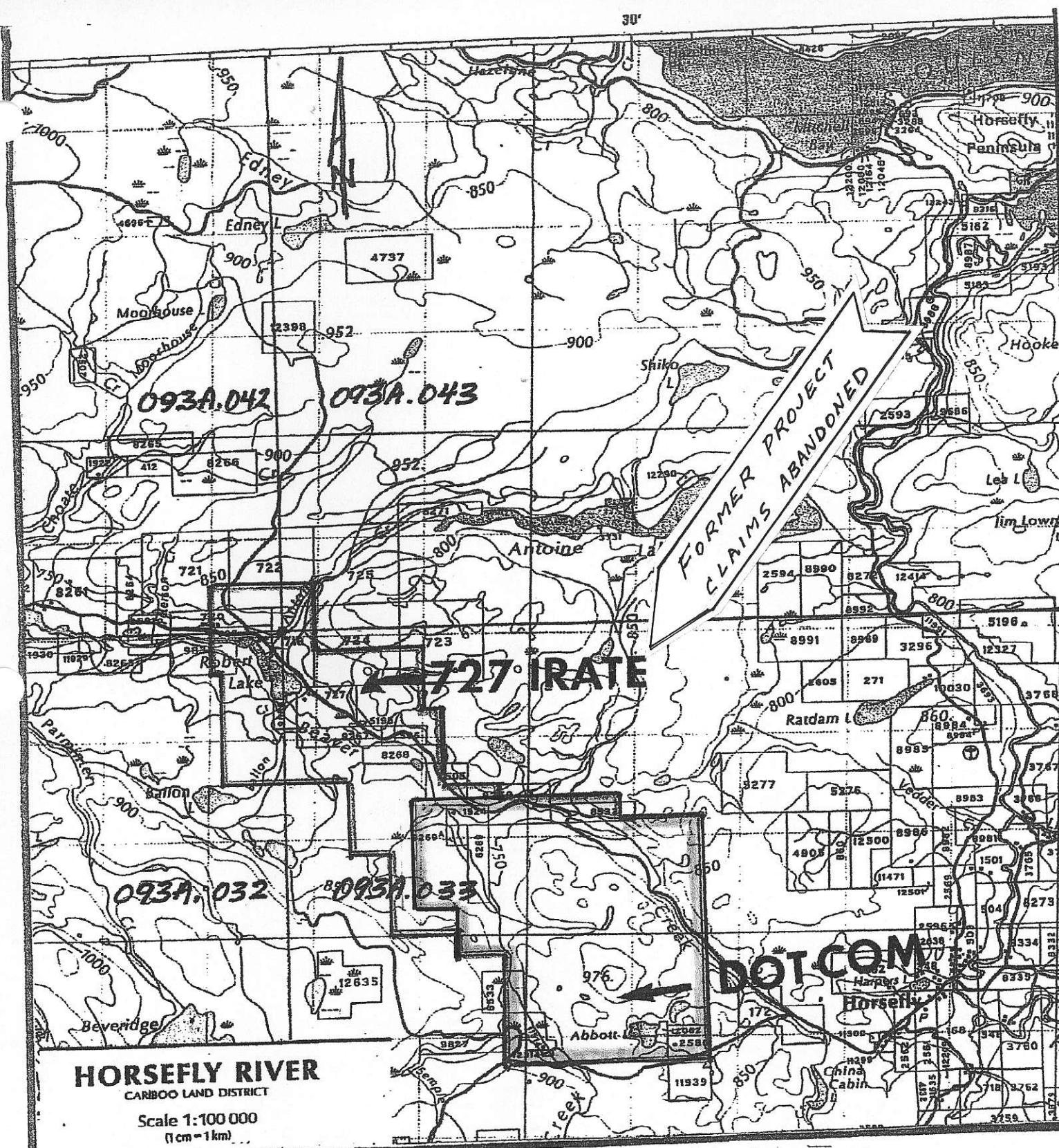
The CSZ occupying low-lying terrain contains anomalous geochemistry, drill-indicated mineralization, and high-grade float over a total length of 2.5 – 3.0 kms. The Fir Ridge, an additional target, embraces an enzyme leach – I.P. target within an area of abundant high grade volcanic hosted floats.

Total costs for the current project are \$25,136.29.

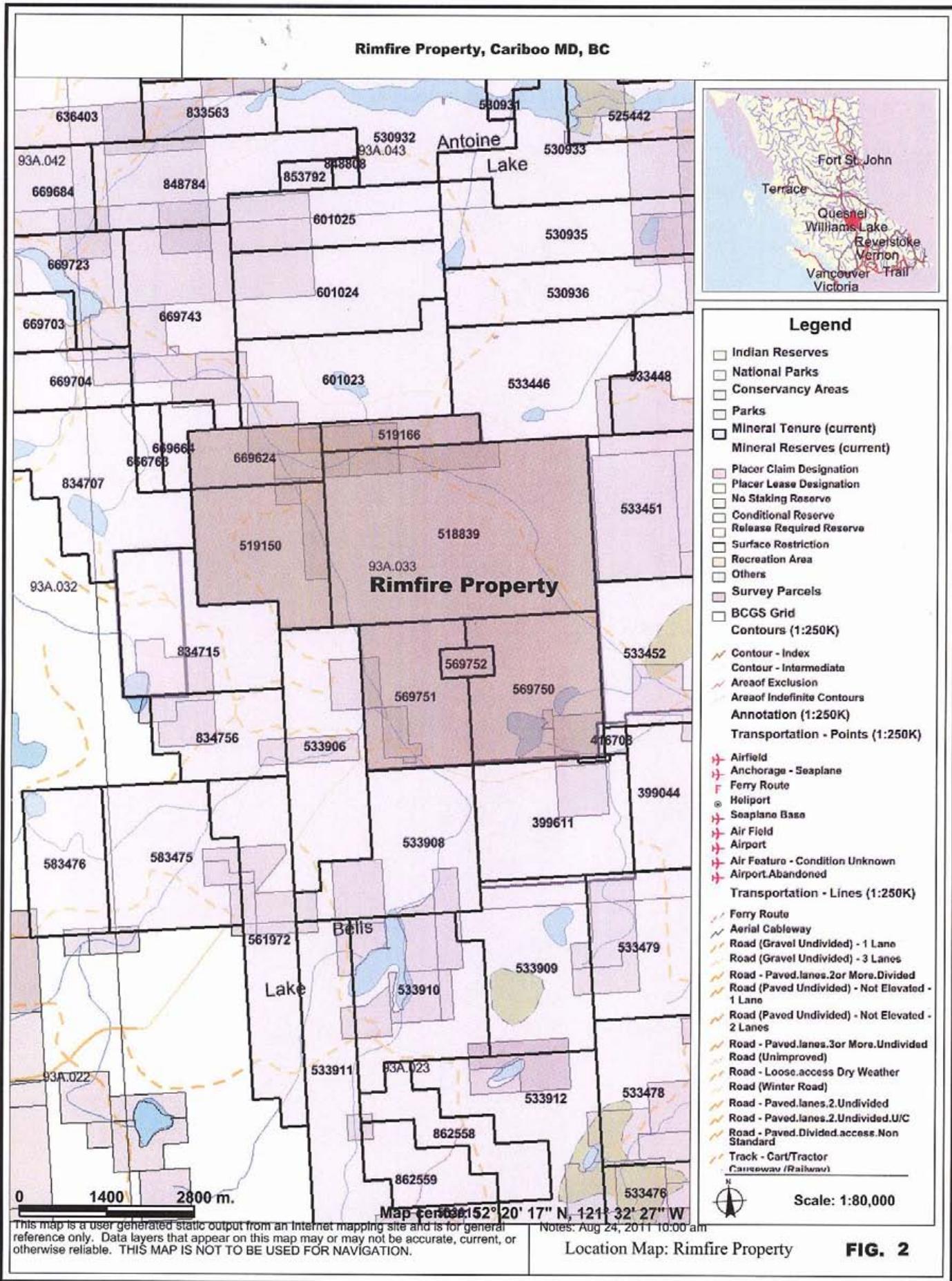
## INTRODUCTION

During the period 14-21 July inclusive, 4 machete/power saw lines were cut on cell claim 518839, located at the southeast end of Finger Lake totalling 1,992 meters. A total of 99 soil samples were collected along these lines at 20 m intervals. The project area was selected to follow up anomalous soil geochemistry defined by preliminary sampling in 2001 (7) and by work performed in 2009 (16).

The overall objective was the definition of Pb-Zn-Ag anomalous areas within the trend of the Central Shear Zone feature considered the primary property target for high-grade Cu-Ag mineralization of either strata-bound or shear zone-hosted mode. The elements Pb-Zn-Ag accompany high grade boulders forming the original prospecting/trenching discovery in 1999, and are more mobile in the surficial overburden covering 99% of the claim area.



**FIG. 1**  
**RIMFIRE PROJECT**  
**General Location Map**



**FIG. 2**

## **PROPERTY, LOCATION & ACCESS (Figs. 1 & 2)**

The Rimfire Project consists of 7 mineral titles aggregating 2,823.9 hectares as itemized below.

Claim Name	Tenure No.	Good To Date	Area (ha)
1 Irate-4A	519150	2011/Oct/15	434.392
2 Irate-5	519166	2011/Oct/15	118.428
3 PD	518839	2011/Oct/15	1184.678
4 PD-3	569751	2011/Oct/15	375.3656
5 PD-4	569750	2011/Oct/15	474.1269
6 Dot Com	569752	2011/Oct/15	39.5065
RF-1	669624	2011/Aug/30	197.39

Total: 2,823.887 hectares

Former titles relating to the 727 Irate Project have been abandoned.

The above titles are situated in the Cariboo Mining Division, with the south eastern extent lying some 5 km west of Horsefly Village near the junction of Beaver Valley Road and the Williams Lake highway.

The northern extent of the claim holdings lies 4.5 km north of Abbott Lake. Total extent of the property is 5 km N-S by 5 km E-W.

Specific locational details are:

NTS 093A.032, .033, .042 and .043

Latitude and longitude for the approximate property center are:

52° 22' 00" and 121° 34' 00".

The Beaver Valley Road traverses the entire length of the claims, while numerous tote and skid trails provide access to off-setting areas, although these can be in poor condition and usage is seasonal to wheeled traffic.

## **TERRAIN/ TOPOGRAPHY**

Terrain in the project area is generally subdued to rolling, with occasional steep-sided draws having an elevation differential of 30-70 meters above the local base. Overall, the area lies within an elevation range of 760-920 meters (2500-3000 feet).

The area is drained by Beaver Creek and Gravel Creek, both mature sluggish streams that flow northwesterly towards the Quesnel River. Both the above have few tributaries, and in general, secondary drainages are conspicuously absent. Nearly all secondary drainages are ephemeral and seepages are few in number. This is attributed to the generally porous and well drained nature of the glacial drift overburden.

Vegetation consists of the usual interior mix of spruce-pine-fir aspen timber, with good stands of mature spruce and fir alternating with thickly vegetated regenerating cut blocks.

Due to the particularly wet 2011 Cariboo summer season, underbrush of predominantly thimbleberry, varied from knee height to chest height, greatly impeding foot travel.

Outcrop areas are rare, with glacial drift and glacio-fluvial deposits mantling 99% plus of the area.

Terrain in the 2011 work area slopes gradually towards the south end of Finger Lake merging into the east-west valley that was the locus of 2009 gridding.

## EXPLORATION HISTORY

The nearby Cariboo area hosts a number of producing and past producing mining operations including Gibraltar Mines (Cu Mo), Mount Polley (Cu Au Ag), QR (Au), and Boss Mountain (Mo). Major exploration programs are currently underway at Spanish Mountain (Skygold Resources) and Frasergold Creek (Hawthorne Gold) focused on sedimentary (black shale) hosted gold. New alkalic porphyry Cu Mo discoveries are being drilled at Fjordland's Southeast Zone, Takom and Deerhorn Zones.

Fjordland Exploration has recently completed an arrangement with Goldfields of South Africa to explore a large block of claims that envelop the Rimfire Project.

The Rimfire area has been staked numerous times in the past, particularly in the 1970s. There is no information in the public record on previous activity during that period, but follow-up activity was likely cursory in nature. Prior to the May 12, 1999 discovery of the high grade (Cu 5%, Ag 5 oz/t, Pb 1%) Dot Com boulders, the record shows the following:

- 1984 Ark Energy Ltd., - Pacific Resources Corp. drilling, southwest corner current PD-3 claim, 2 holes (NQ) 158.5 m (6).

1984 Redford Resources Inc., Finger Lake area. Current PD claim, 7.5 km VLF-magnetic survey AR 13, 205.

1996 White Channel Resources Corp., southwest corner current PD-3 claim, drilling, 3 vertical DDH totaling 805 m (6).

Since the initial May 1999 prospecting discovery the owners have conducted numerous work campaigns including conventional and enzyme leach geochemical surveys, line cutting, excavator trenching and blasting, I.P. survey and one NQ core hole on DL727. Details of this work can be found in reports referenced. The PD and Dot Com claims were under option to Phelps Dodge Corp in 2002-03, who completed I.P., magnetic and VLF geophysical surveys and 1009.7 m of NQ core drilling in 7 holes, subsequently allowing the option to lapse.

The I.P. surveys were scattered in execution, and a 1.5 km wide zone in the center of the potential mineralized area remains untested by electrical survey (Fig. 3) (10).

## WORK PERFORMED

Period 14 – 21 July 2011 inclusive

4.7 km Access Road, windfall removal.

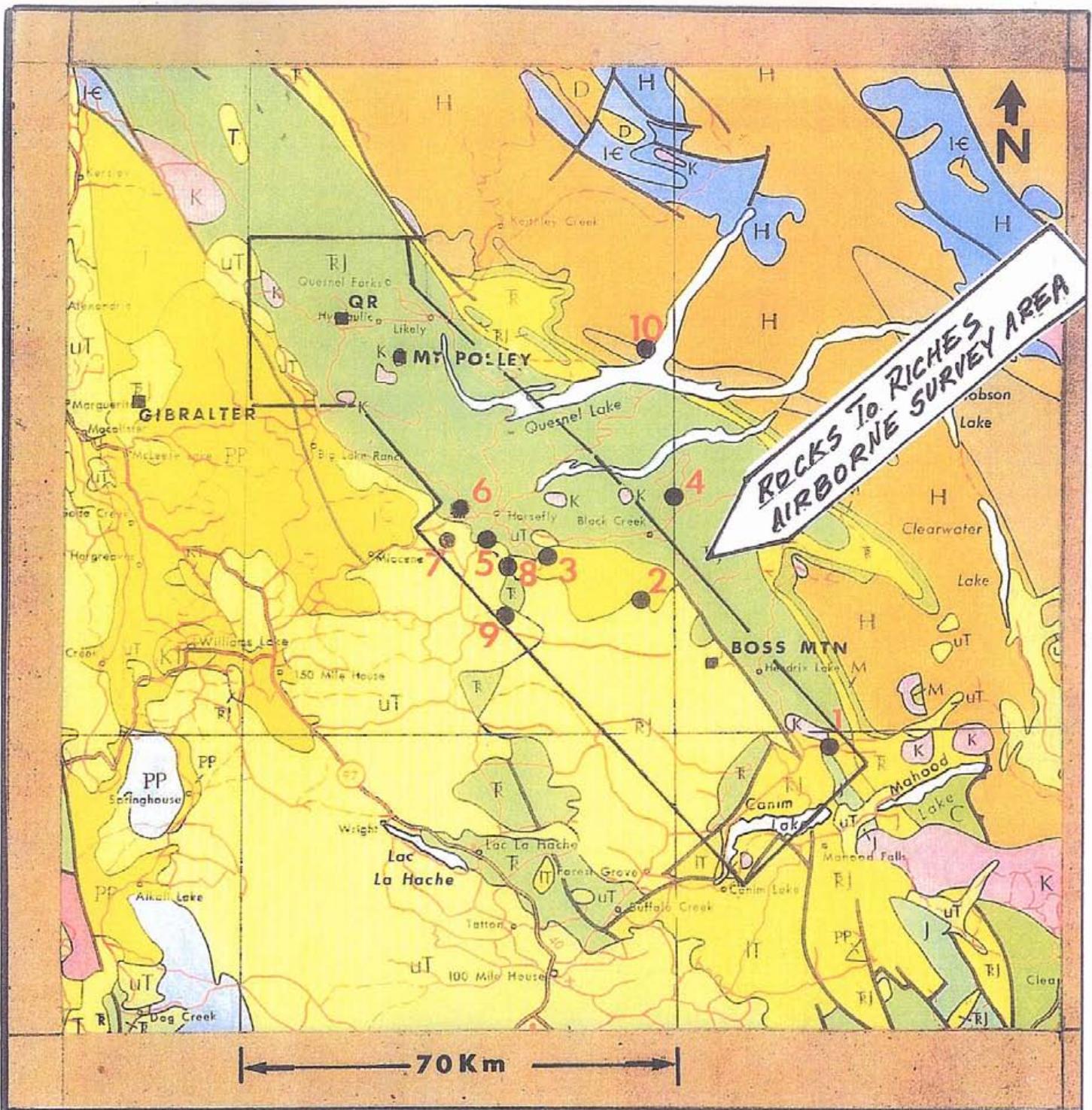
1,992 meters, machete/power line cutting, Lines blazed, flagged, and painted.

99 ea. Soil sampling

Access to the 2011 work area is via a rough tote road that begins at the intersection of the east line of DL 2586 with the Horsefly Highway. The subject road trends northerly to a junction with a north road from lot 2586.

From that point, travel is northward by quad for 700 meters, then 1 km westward on a former haul road to tie line east and the 2011 grid area. The latter roads are nearly all grown-in.

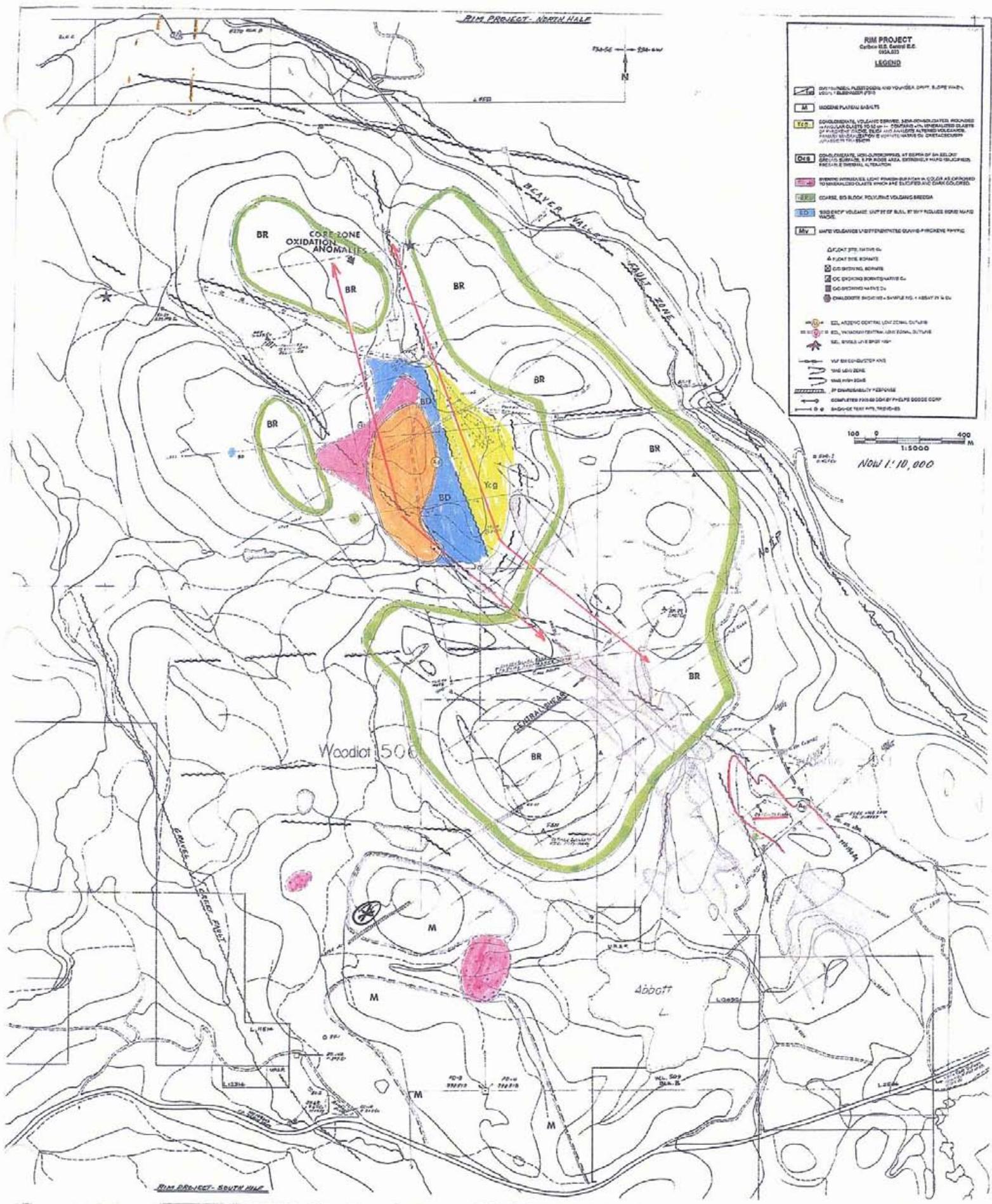
Former tie line east (TLE) was used as a base line. This line was formerly chained from N → S; for current control, the subject line was chained from S → N, starting at the junction with tie line south, station 694E. Line 432N intersected line 2E from the 2009 operation at 410S, indicating a compass deflection of 11° – 12° southerly for a 270° heading. Lines 232N and 332N were adjusted accordingly for plotting.



### Cariboo Mineral Projects

1. Hotfish-Kingpin.....	Cu Zn Ag
2. Rodeo/Luky Jack.....	Zn (Pb Cu) <i>NEWMENT OPTION 2011</i>
3. Megaton-TNT.....	Cu Zn Au
4. Keno.....	Mo (Cu Pb Zn Ag Au)
5. Stope Baby.....	Zn Cu Pb Ag Au
6. Dot Com-Rim.....	++Cu Ag (Pb Zn)
7. King Kong.....	Intrusive Cu-Au target
8. Magalloy-Magex...	Intrusive Cu-Au target <i>GOLDFIELDS OPTION 2011</i>
9. Kosak.....	Intrusive Cu-Au target
10. Delta Gold.....	New Au placer

FIG.3



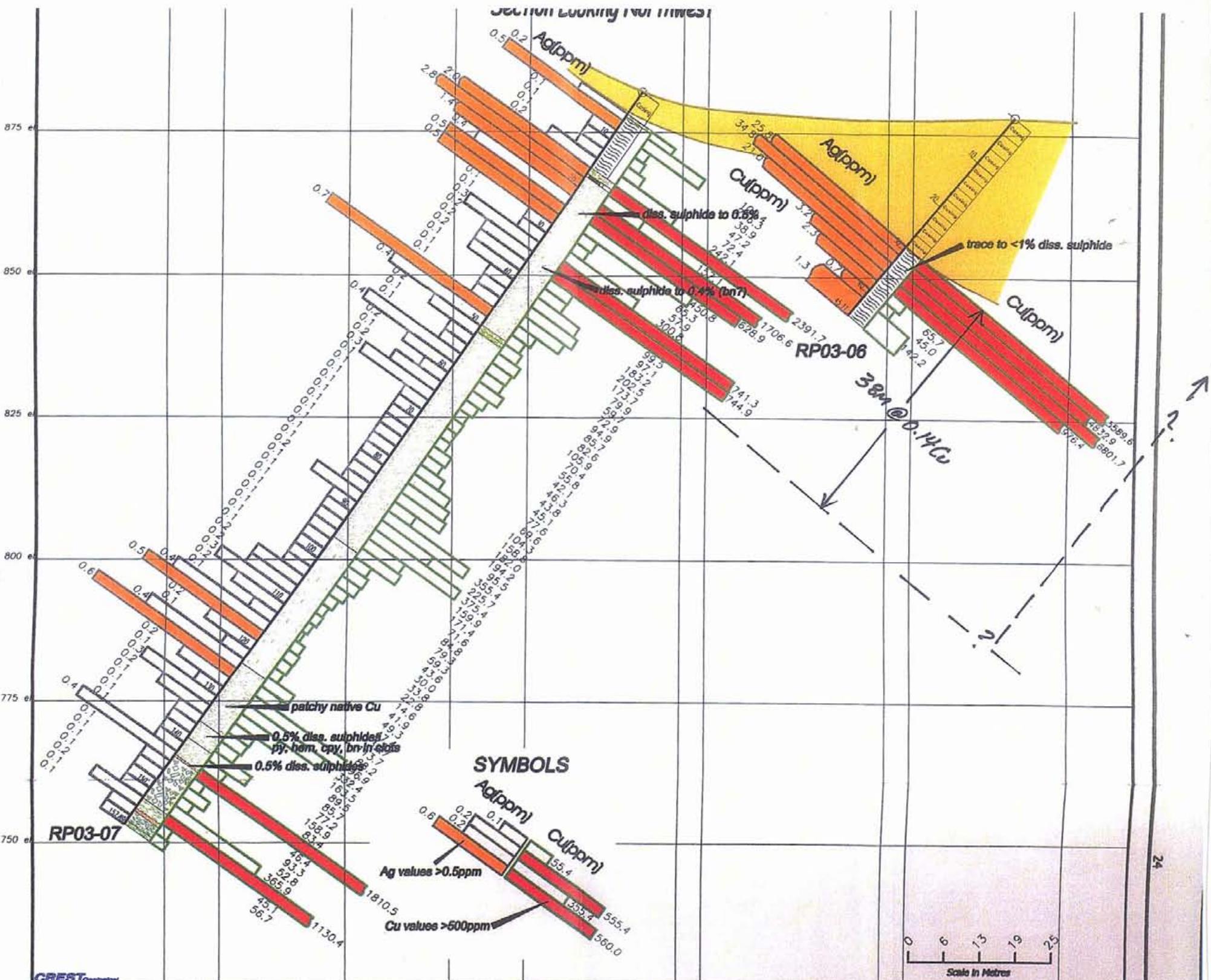
(\*) IP SECTION 1000N

FIG. R-1

From (m)	To (m)	Description	Mineralization	Sample No.	From (m)	To (m)	Length (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Fe (%)	Au (ppb)	
0.00	29.09	OVERBURDEN		42501	29.09	31.00	1.91	5589.6	67.3	675	25.8	3.05	3.3	
		Quartz and volcanic fragments. At 22.86m, start of fault zone.		42502	31.00	33.00	2.00	4832.9	60.7	838	34.8	3.38	2.9	
29.09	45.11	FAULT		42503	33.00	35.00	2.00	6801.7	63.7	822	21	3.62	1.7	
		Maroon-green-grey, ground up rock, rock fragments set in sandy clay rich gouge. Angular and fractured rock fragments to 8cm. Broken and irregular calcite veinlets throughout ranging from <1mm to 3mm wide. Veinlets range from 25° to 50° to c/a. Shearing is at 40° to c/a which is generally perpendicular to calcite veinlets. Spotty, trace to <1% disseminated very fine grained sulphide.	Trace to <1% diss. fine grained sulphide	42504	35.00	37.00	2.00	976.4	72.6	521	3.2	3.47	14.6	
		37.40-40.39: highly fractured and sheared fragments of fine grained grey plagioclase-pyroxene phryic basalt (plagioclase phenocrysts altered to chlorite +/- epidote mix), shearing is at 55° to c/a, abundant clay gouge, trace to <1% disseminated fine grained sulphide in this interval, also greenish tinge (chlorite?) to calcite veining, basalt fragments are moderately magnetic, losing maroon colour at base of this interval		42505	37.00	39.00	2.00	65.7	159.1	691	2.3	5.23	7.4	
		40.39-42.32: Highly fractured and sheared, grey, fine grained, moderately siliceous pyroxene phryic basalt. Euhedral to subhedral pyroxene phenocrysts range in size from <1mm to 4mm and make up 8% of rock. Phenocrysts are altered to chlorite +/- epidote mix with the ragged phenocryst cores remaining black. Ragged, chlorite-calcite altered plagioclase phenocrysts make up 4% of rock. Rock is weakly calcareous, clay rich and moderately magnetic. Weak to moderate greenish calcite and banded (white-brown) siderite veinlets cut the core at 5° to 90° to c/a. Trace disseminated fine grained sulphide (bornite?) and trace disseminated native copper in interval. This Interval is a large rock fragment in fault zone. Lower contact of fragment is sharp at 70° to c/a against clay gouge.		42506	39.00	41.00	2.00	45.0	147.3	833	0.7	6.09	9.4	
		42.63-42.90: grey-white fractured basalt rock fragments with clay-sand material supporting rock fragments		42507	41.00	45.11	4.11	142.2	198.6	673	1.3	5.90	4.6	
		42.90-43.60: dark maroon-black sand, minor rock chips and clay gouge, trace disseminated fine grained native copper in sandy intervals		42508Grab	43.00	43.00	0.00	827.1	110.0	1244	3.8	5.89	4.2	
	45.11	END OF HOLE												

**FIG. A**





**phelps dodge** Corp. of Canada, Ltd.

Project No.: 195

Cariboo Mining Division

**Dot Com Project**  
**SECTION - 4 - Histogram Plot Cu(ppm) and Ag(ppm)**  
**RP03-06 and RP03-07**

Rim Property

Drawn by: CWP	Date: Mar/03
Scale: as shown	Figure: 19

**FIG. B**

## **GEOLOGY**

### **Regional: (Fig. 3)**

The Triassic age Quesnel Trough in broad terms is generally well known. Lying between the Cache Creek terrain on the east, the "trough" is composed of mafic volcanics and volcanic related sediments, with a dominant black shale-phyllite sequence occupying the eastern margin. The entire succession of volcano-sedimentary stratigraphy is intruded by contemporaneous and later intrusives (Jurassic) of syenitic and more acid varieties. The Quesnel terrain is accretionary via thrust faulting, onto the older Paleozoic Omineca belt. The area is complex structurally, with the dominant trend being north, northwesterly.

### **Local Geology: Ref. (1) (2) (10) (Fig. 4)**

The local geology is essentially unknown due to the widespread masking cover of glacial drift. The geology is best known in the southern project area (Dot Com-Rim), where the subsurface was tested by 7 drill holes in 2002-03 (10). The main feature of interest in the southern sector, is the 'big block breccia' unit (BR) surrounding the Finger Lake area. The BR unit underlies the hills surrounding Finger Lake and encompasses the prime enzyme leach (EVL) oxidation anomaly and the Ycg conglomerate unit on the Fir Ridge, just west of Finger Lake. The Ycg unit is a high energy conglomeratic accumulation of multi-lithologic cobbles and boulders, of which about 0.5% are mineralized clasts carrying native copper and/or bornite.

The BR unit is exposed in a rock pit at the north end of Finger Lake, and displays large size (to 2m) clasts (blocks) of mixed volcanic and syenitic composition. The circumferential distribution of the BR unit with respect to unit Ycg is considered indicative of a paleo volcanic eruptive center.

During current field work no new outcrops were located.

## **MINERALIZATION:**

No new mineralized floats or outcrops were observed during the current program. Mineralization within the claim area consists of the undernoted:

- 1) Disseminated native copper in mafic volcanics ± bornite.
- 2) Disseminated bornite and lesser chalcocite in mafic tuffs and volcaniclastics, ± native copper.

- 3) Disseminated bornite in stratified layers within pyroxene-rich mafic wackes; the pyroxenes are distinct, slightly water worked grains.
- 4) Massive sulphides of bornite and chalcocite within shear zones (Gravel Creek showing.)

Abundant assay results may be found in the previous work reports. In general, type (1) mineralization rarely produces returns above 0.1% Cu. Type (2) produces high results ranging from 1-5% Cu, and up to 5 oz/t Ag. Type (3) is very high grade producing assays to 10-20% Cu and 10 oz/t Ag. A particularly rich float of type (2) was located during 2005 trenching and produced an assay of 25% Cu and 1,198 g/t Ag (Fig. 3a).

The Cu-sulphide varieties may or may not be accompanied by anomalous levels of Zn to 1,200 ppm and Pb to 5%. This is illustrated in the mineralized interval of Phelps Dodge DDH RP03-06 (Fig. A), while Fig. B illustrates the potential for strata bound copper mineralization of the Sustut-type. (40 mT@ 2% Cu).

## GEOCHEMISTRY:

**General:** As a general frame of reference, background metal values (soils) for the Quesnel Trough geological belt are (ppm):

Cu	31.5
Pb	19.3
Zn	94.2
Ag	0.8

For the Rimfire project area the quoted values for Pb are too high, as experience shows that Pb values of over 10 ppm are likely anomalous. It should be noted, that high grade bornite mineralization (5% Cu) at the Dot Com boulder showing carries values for lead to 1%, zinc to 0.06% and silver to 1,500 g/t. These constitute local pathfinder elements for copper mineralization. (See also Fig. A)

Interpretation of the geochemical data requires consideration of the following factors:

1. The underlying stratigraphy is calcium enriched, with average Ca content at 3-4% (10). Glacial materials derived from this bedrock are thus calcareous in nature, an inhibiting factor to metal ion mobility. A caliche layer is variably present at depths of 1-5 meters.
2. The glacial drift overburden is overall well drained, especially on elevated terrain, thus there are minimal seepages, springs, or internal drainages.

3. Mineralization being sought is pyrite deficient, thus there is little to no acid generation potential to mobilize metallic ions.
4. The west half of the 2011 lines are in low-lying terrain, thus overburden may exceed 20-30 meters.

## **RESULTS OF 2011 PROGRAM (Figs. C,D,E, & 3a)**

Soils were collected from the 3 power saw cut lines and along 432 m of TLE at standard 20 m intervals. Samples were retrieved by means of USA intrenching tool from average depths of 25 cm., placed in labeled kraft envelopes appropriately marked, and shipped to Acme Labs, Vancouver for analysis. A total of 99 samples were thus collected, with details of analytical method and results found in enclosure (1) being assay report VAN 11003468.1

### **Range of Values (Ref. 7)**

Based upon the preliminary soil survey of May 2001 which totaled 176 samples from wide spaced claim location lines representing maximum areal coverage, the following value ranges are presented:

<u>Cu ppm</u>	<u>Pb ppm</u>	<u>Zn ppm</u>	<u>Ag ppb</u>
0-40 86%	0-10 85%	0-100 85%	0-125 82%
40-70 10%	10-15 12%	>100 15%	125-275 16%
70-100 4%	>15 3%		275-300 2%

### **Data Presentation (Figs. C,D, E, & 3a)**

#### **Copper (Fig. C)**

In conjunction with 2009 results (16), the 70 ppm Cu contour has outlined a 450 m long x 50 m wide anomalous zone tending NW to westerly, more or less paralleling the northern base of slope of the Dot Com Hill on the edge of the east-west topo depression. The area is devoid of outcrop. Peak values are 600-1000 ppm Cu.

#### **Lead (Fig. D)**

Lead forms an overlapping pattern open to the southeast measuring some 650 m x 50 -100 m wide based upon the > 15 ppm contour.

#### **Zinc (Fig. E)**

Zinc exhibits the broadest distribution, but a concentrated anomalous pattern overlies Cu and Pb results. The anomalous core (>120 ppm Zn) extends for >600 m southeasterly, with a maximum width of 300 meters.

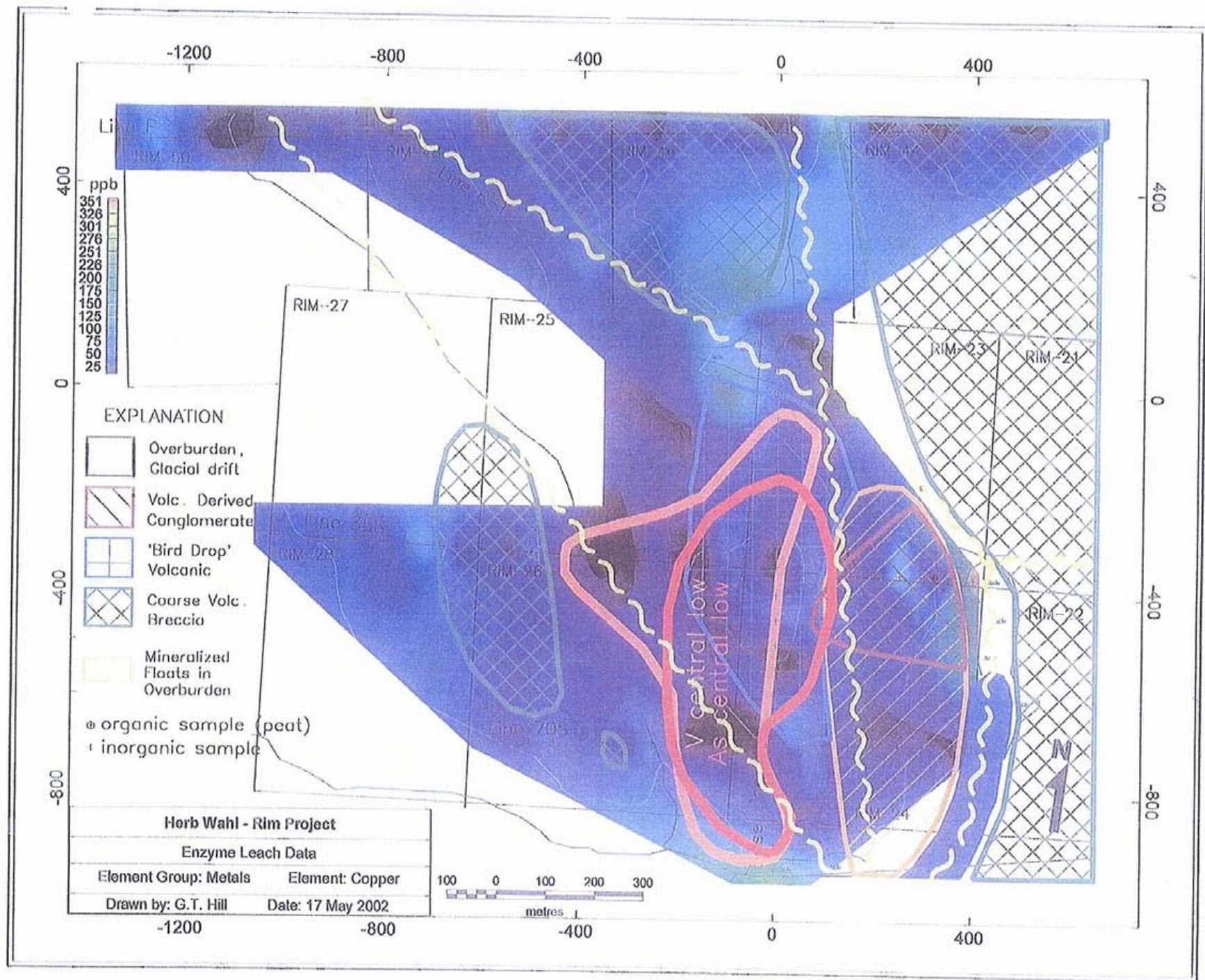
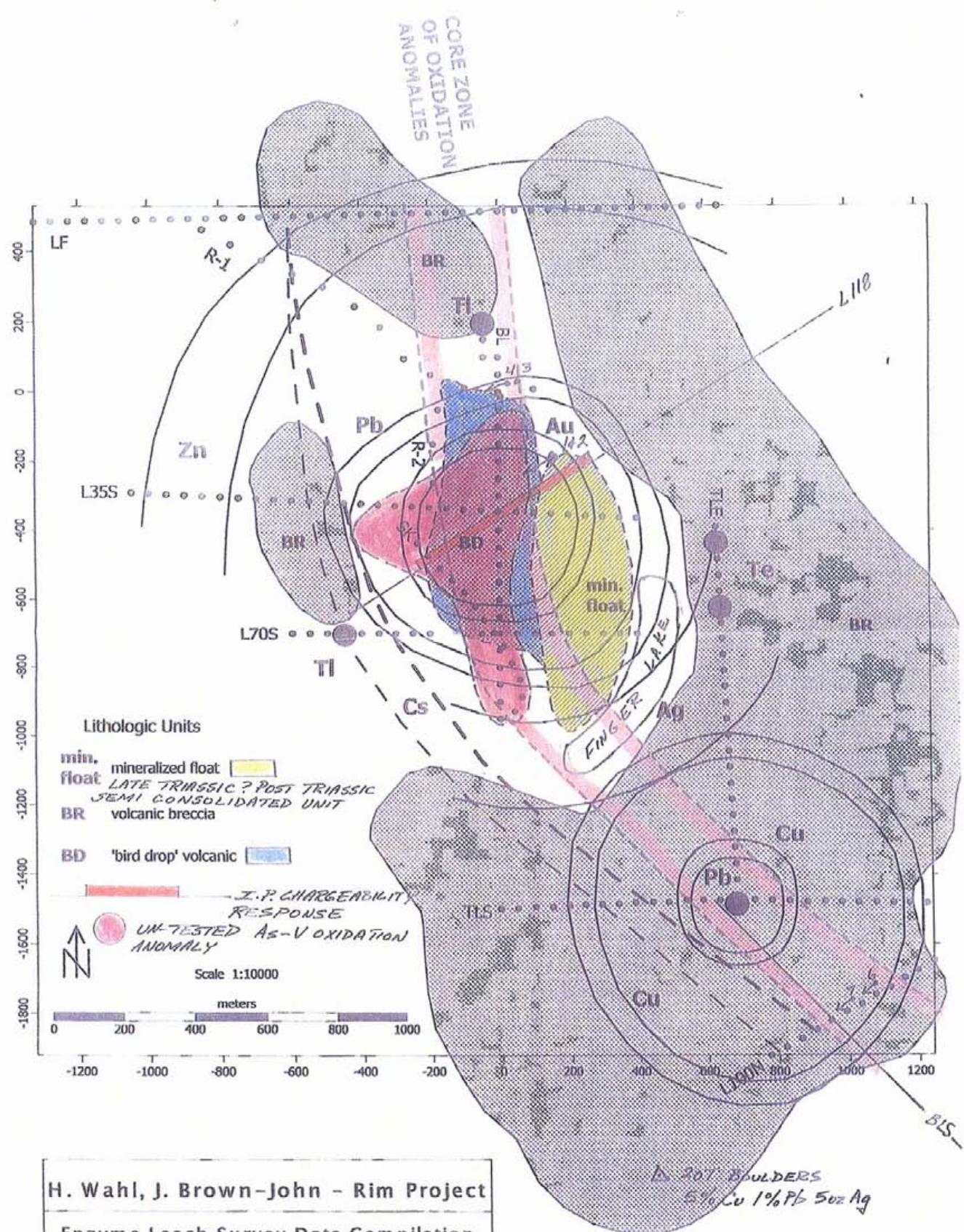


FIG. R-2



H. Wahl, J. Brown-John - Rim Project  
Enzyme Leach Survey Data Compilation  
Summary Map

Drawn by: G.T. Hill

Date: 16 February 2005

FIG. R-3

### **Silver**

Unfortunately the ultra trace analysis was not requested thus variations within the ppm analysis were not reported. A highly anomalous zone was previously identified on line TLS being 200 m long with values from 145-351 ppb Ag.

## **CONCLUSIONS**

In combination with the 2009 survey, 2011 work has identified a +1 kilometer Cu-Pb-Zn-Ag soils anomaly up to 300 m wide situated within a northwest to west trending topographic low. This feature is referred to as the Central Shear Zone (CSZ). Prior drilling by Phelps Dodge (Figs. A, B) has identified shear zone hosted bornite and native Cu within this feature. The possibility also exists mineralization may be strata-bound modified by later shearing. In all, the CSZ contains anomalous geochemistry, drill-indicated mineralization and a high grade float (25% Cu, 40 oz Ag) over a total length of 2.5 - 3.0 kilometers. In addition the Fir Ridge zone is an untested target 1 km long with numerous high-grade floats and an untested enzyme leach oxidation target plus anomalous I.P.

## **RECOMMENDATIONS**

Onward work will consist of a trenching operation to test pit the newly defined target area.

Prepared by



H. Wahl, P.Eng. B.C.

**Statement of Costs – Rimfire Project  
Period 014-21 July 2011 (inclusive)**

H.J. Wahl, 8 days field, line cutting, sampling & supervision @ \$1,100/day	\$8,800.00
H.J. Wahl, 4 days, organization, pre/post field logistics @\$500/day	2,000.00
H.J. Wahl, 6 days reporting @\$500/day	3,000.00
J.V. Brown-John, 6 days field, line cutting and sampling,@\$500/day	3,000.00

**Sub Total: \$16,800.00**

Field Vehicle, Ford F-350 SD 4x4, Lic.5181EY	\$1,600.00
Arctic Cat 700, 4x4 Quad, 6 days @\$300/day	1,800.00
Travel (01)	500.00
Accommodation (02) McQueen Cabin, Rodman Rd. Horsefly,BC 7 days @ \$75/day	525.00
Prints, photocopies (04)	60.00
Secretarial (05)	150.00
Postage, freight, commun.(06)	50.00
Field Eqpt. & Consumables (07)	821.00
Assaying (11)	2,367.29
Vehicle Operations (15)	<u>\$463.00</u>

**Sub Total: \$8,336.29**

**Grand Total: \$25,136.29**

Certified True and Correct  
H.J. Wahl, P.Eng. B.C.



## REFERENCES

- 1) Panteleyev, A., et al. (1996) *Geology and Mineral Deposits of the Quesnel River -Horsefly Map Area, Central Quesnel Trough, British Columbia*, B.C.D.M. Bull 97.
- 2) Panteleyev, A. and Hancock, K. (1989), *Geology of the Beaver Creek-Horsefly River Map Area*, BCDM OF 1989-14.
- 3) Geophysics Paper 5239 (1961) Beaver Creek, B.C. 93-A-5.
- 4) Geophysics Paper 5239 (1967) Horsefly, B.C. 93-A-6.
- 5) Shives, R.B.K., Carson, J.M., Ford, K.L. Holman, P.B. and Cathro, M. (2004): Horsefly Multisensor Geophysical Survey; *Geological Survey of Canada*, Openfile 2004-9, map.
- 6) Wahl, H.J., P.Eng., *Report of Initial Exploration on the Dot Com 1-6 Mineral Claims*, May 1999.
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- 8) Wahl, H.J., P.Eng. *Rimex Group: Report of Initial Enzyme Leach Soils Survey*, May 2002.
- 9) Wahl, H.J. P.Eng. (2002) Memorandum Report, RIM Claims, unpublished report, 21 pages. Covers initial trenching results on the Fir Ridge area.
- 10) Payne, C. (2003): 2002-2003 Summary Report on the RIM Property, Dot-com Project, for Phelps Dodge Corporation of Canada, Limited. Crest Geological Consultants Ltd. report, 168 pages with maps.
- 11) Hancock, K. P.Geo., Property Review Rim, Dot Com, PD claims, 22 June 2004: A private report prepared as qualifying document for the Vancouver Stock Exchange.
- 12) Wahl, H.J. P.Eng., 2005 Rim Project, *Report of March 2005 Trenching on the PD-4 Mineral Claim*.
- 13) Wahl, H.J. P.Eng., 727 Irate Project, *Report of Preliminary Exploration on the NPC-1&2, Irate 1 & 2 and District Lot 727*, June 2005.
- (14) Wahl, H.J. P.Eng., 727 Irate Project, *Report of Initial Core Drilling on District Lot 727*. May 2006.
- (15) Wahl, H.J. P.Eng., *Report of August-September 2008 Exploration on the Rimfire Project*, Oct. 2008.
- (16) Wahl, H.J.P.Eng., Rimfire Project, *Report of September 2009 Grid Soil Sampling (conventional)* Sept. – Oct. 2009.

## CERTIFICATE OF QUALIFICATIONS

This is to certify that:

1. I, Herbert J. Wahl, am a resident of British Columbia and live at RR10, 1416 Ocean Beach Esplanade, Gibsons, B.C. V0N 1V3 Canada.
2. I am a graduate of Dartmouth College, Hannover, New Hampshire, with the degree of Bachelor of Arts with Honors in Geology (1957).
3. I am a member of the Association of Professional Engineers of British Columbia and have practiced my profession continuously from 1961 to the present. (Registration No. 8990)



H.J. Wahl, P.Eng. B.C.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

**Client:**

**Wahl, Herb**  
1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Submitted By: Herb Wahl  
Receiving Lab: Canada-Vancouver  
Received: July 26, 2011  
Report Date: August 24, 2011  
Page: 1 of 5

## CERTIFICATE OF ANALYSIS

VAN11003468.1

### CLIENT JOB INFORMATION

Project: RIMFIRE  
Shipment ID:  
P.O. Number  
Number of Samples: 99

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	99	Dry at 60C			VAN
SS80	99	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	99	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

### ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Wahl, Herb  
1416 Ocean Beach Espl.  
Gibson BC V0N 1V3  
Canada

CC:



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\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

Client:

**Wahl, Herb**

1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Project: RIMFIRE

Report Date: August 24, 2011

Page: 2 of 5 Part 1

VAN11003468.1

## CERTIFICATE OF ANALYSIS

Method	Analyte	Unit	1DX15																			
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm							
MDL			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
L232 00	Soil		0.4	20.1	6.3	115	0.1	21.0	10.0	636	2.25	2.1	0.9	1.5	76	0.3	0.1	0.1	62	0.48	0.231	6
L232 20W	Soil		0.4	21.8	6.1	76	0.1	10.9	8.7	528	2.26	1.1	<0.5	1.1	36	0.1	<0.1	0.1	69	0.27	0.090	5
L232 40W	Soil		0.3	22.2	6.5	73	<0.1	9.1	9.4	680	2.33	0.7	<0.5	1.2	36	0.3	<0.1	0.1	77	0.26	0.086	5
L232 60W	Soil		0.5	29.3	5.1	55	<0.1	20.7	10.9	463	2.64	2.1	1.6	2.0	52	<0.1	0.1	<0.1	85	0.35	0.066	7
L232 80W	Soil		0.5	25.2	6.1	99	<0.1	15.8	10.6	856	2.34	1.4	0.7	1.4	55	0.3	0.1	0.1	76	0.47	0.106	6
L232 100W	Soil		0.5	25.3	5.9	75	<0.1	17.7	10.7	579	2.62	2.1	2.1	2.0	60	0.3	0.1	0.1	83	0.47	0.135	8
L232 120W	Soil		0.5	33.5	6.9	87	<0.1	22.1	11.3	631	2.77	3.2	<0.5	2.1	79	0.3	0.2	0.1	87	0.68	0.146	8
L232 140W	Soil		0.5	35.2	5.9	79	<0.1	18.5	10.1	476	3.12	3.5	2.9	1.9	118	0.1	0.2	<0.1	97	0.77	0.170	8
L232 160W	Soil		0.5	16.5	6.5	102	0.1	16.7	8.5	428	2.29	1.6	<0.5	1.7	48	0.1	0.1	0.1	68	0.34	0.179	7
L232 180W	Soil		0.5	17.7	7.7	82	<0.1	11.1	8.7	775	2.47	1.2	<0.5	1.3	43	0.2	0.1	0.1	82	0.41	0.099	6
L232 200W	Soil		0.8	39.6	13.4	140	0.2	15.3	10.2	1760	2.44	2.9	<0.5	0.6	47	0.7	<0.1	0.1	73	0.51	0.191	6
L232 220W	Soil		0.5	26.7	6.0	74	<0.1	13.4	9.5	684	3.04	2.1	2.7	1.4	102	0.2	0.2	<0.1	103	0.67	0.093	6
L232 240W	Soil		0.4	23.1	6.2	97	<0.1	13.8	10.7	876	3.24	1.6	<0.5	1.4	104	0.1	0.2	<0.1	106	0.66	0.080	6
L232 260W	Soil		0.4	28.6	5.8	88	<0.1	13.6	11.1	851	2.82	1.4	<0.5	1.2	78	0.2	0.2	0.1	87	0.59	0.161	6
L232 280W	Soil		0.5	31.1	6.0	104	0.2	25.0	11.6	464	2.92	3.6	<0.5	1.7	72	0.1	0.1	0.1	85	0.57	0.271	7
L232 300W	Soil		0.5	31.0	6.7	64	0.1	13.4	9.9	1540	2.95	2.5	0.8	1.2	89	0.2	0.2	<0.1	93	0.74	0.133	5
L232 320W	Soil		0.4	27.3	6.8	101	0.1	18.8	11.5	1000	3.12	4.6	<0.5	1.0	76	0.5	0.1	0.1	105	0.93	0.263	6
L232 340W	Soil		0.7	49.8	6.9	72	0.1	24.2	14.0	625	3.58	7.4	<0.5	1.3	157	0.3	0.2	<0.1	135	1.22	0.110	8
L232 360W	Soil		0.4	33.7	10.2	83	0.1	24.4	11.3	534	3.46	5.3	1.6	1.4	97	0.2	0.2	<0.1	111	0.65	0.213	6
L232 380W	Soil		0.7	26.3	11.0	121	0.2	16.8	10.8	1297	3.04	3.7	0.5	1.1	67	0.5	0.2	<0.1	97	0.57	0.171	5
L232 400W	Soil		0.4	22.3	12.0	104	0.2	16.0	10.8	894	2.62	6.7	0.9	1.1	61	0.1	0.2	0.1	79	0.53	0.056	5
L232 420W	Soil		0.4	40.0	12.5	97	0.2	19.9	11.2	539	3.36	6.8	1.1	1.3	97	0.2	0.3	<0.1	114	0.86	0.087	7
L232 440W	Soil		0.4	29.4	11.3	116	0.2	19.3	10.4	498	2.50	6.0	1.2	1.3	64	0.2	0.2	<0.1	73	0.53	0.312	6
L232 460W	Soil		0.6	127.4	14.5	118	0.5	17.2	11.1	2838	2.49	11.6	<0.5	1.4	59	0.6	0.3	0.2	114	0.68	0.032	13
L232 480W	Soil		0.4	74.7	17.5	138	0.3	14.3	11.5	728	3.25	6.4	<0.5	1.4	108	0.1	0.4	<0.1	111	0.91	0.151	8
TLE 20N	Soil		0.6	27.6	6.8	104	<0.1	13.4	10.8	1222	3.13	1.6	1.6	1.4	93	0.3	0.2	<0.1	105	0.74	0.083	7
TLE 40N	Soil		0.6	24.5	6.3	115	<0.1	16.2	9.4	776	2.77	2.2	0.8	1.6	111	0.3	0.2	0.1	88	0.91	0.178	6
TLE 60N	Soil		0.5	21.0	6.0	104	0.1	21.3	9.7	394	2.64	2.4	<0.5	1.7	44	0.2	0.2	0.1	70	0.36	0.244	7
TLE 80N	Soil		0.4	14.7	6.1	69	<0.1	10.8	7.7	623	2.32	1.0	1.9	1.4	39	0.1	0.1	0.1	77	0.35	0.047	6
TLE 100N	Soil		0.5	11.1	8.0	79	<0.1	7.2	5.8	904	2.12	<0.5	0.8	1.0	39	0.2	<0.1	0.1	66	0.36	0.056	5

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Client: Wahl, Herb  
1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Project: RIMFIRE  
Report Date: August 24, 2011

Page: 2 of 5 Part 2

VAN11003468.1

## CERTIFICATE OF ANALYSIS

Method	Analyte	1DX15																															
		Cr		Mg		Ba		Ti		B		Al		Na		K		W		Hg		Sc		Tl		S		Ga		Se		Te	
		Unit	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm				
MDL		1	0.01	1	0.001	1	0.01	1	0.01	0.001	0.01	0.01	0.01	0.01	0.1	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2										
L232 00	Soil	25	0.53	109	0.090	4	2.33	0.012	0.12	<0.1	0.02	2.3	<0.1	<0.05	7	0.7	<0.2																
L232 20W	Soil	21	0.44	89	0.104	3	1.30	0.007	0.08	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2																
L232 40W	Soil	21	0.40	91	0.117	4	1.16	0.008	0.07	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2																
L232 60W	Soil	37	0.61	74	0.120	3	1.93	0.016	0.10	0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2																
L232 80W	Soil	26	0.59	116	0.113	5	1.84	0.014	0.12	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2																
L232 100W	Soil	36	0.67	96	0.127	4	1.89	0.017	0.09	<0.1	<0.01	2.9	<0.1	<0.05	6	<0.5	<0.2																
L232 120W	Soil	37	0.68	109	0.128	5	2.24	0.020	0.15	0.1	0.03	3.2	<0.1	<0.05	7	<0.5	<0.2																
L232 140W	Soil	29	0.66	103	0.141	3	2.90	0.013	0.16	<0.1	<0.01	3.7	<0.1	<0.05	8	0.8	<0.2																
L232 160W	Soil	27	0.51	114	0.101	3	2.03	0.012	0.12	0.2	0.01	2.9	<0.1	<0.05	7	<0.5	<0.2																
L232 180W	Soil	28	0.49	72	0.126	3	1.54	0.029	0.09	0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2																
L232 200W	Soil	20	0.56	136	0.116	6	2.49	0.061	0.12	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2																
L232 220W	Soil	28	0.61	88	0.145	4	2.14	0.012	0.12	<0.1	0.01	3.2	<0.1	<0.05	7	<0.5	<0.2																
L232 240W	Soil	23	0.70	104	0.150	4	2.71	0.014	0.17	<0.1	0.01	3.5	<0.1	<0.05	8	<0.5	<0.2																
L232 260W	Soil	23	0.69	109	0.119	4	2.53	0.012	0.15	<0.1	0.02	3.3	<0.1	<0.05	8	<0.5	<0.2																
L232 280W	Soil	32	0.71	116	0.117	5	3.07	0.013	0.15	<0.1	0.02	3.6	<0.1	<0.05	8	<0.5	<0.2																
L232 300W	Soil	27	0.43	187	0.115	5	2.00	0.011	0.13	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2																
L232 320W	Soil	29	0.64	86	0.121	7	2.46	0.015	0.14	<0.1	0.04	2.9	<0.1	<0.05	7	<0.5	<0.2																
L232 340W	Soil	31	0.77	164	0.146	5	4.04	0.195	0.15	<0.1	0.04	3.5	<0.1	<0.05	8	<0.5	<0.2																
L232 360W	Soil	37	0.67	113	0.133	5	2.90	0.015	0.12	<0.1	0.02	3.2	<0.1	<0.05	8	<0.5	<0.2																
L232 380W	Soil	31	0.48	117	0.125	5	2.06	0.014	0.11	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2																
L232 400W	Soil	26	0.59	71	0.122	8	2.42	0.021	0.09	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2																
L232 420W	Soil	33	0.75	76	0.130	7	3.10	0.129	0.08	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2																
L232 440W	Soil	26	0.63	102	0.102	5	2.72	0.010	0.15	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2																
L232 460W	Soil	29	0.46	84	0.111	8	2.14	0.021	0.09	<0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2																
L232 480W	Soil	28	0.74	62	0.133	6	2.79	0.139	0.17	<0.1	0.05	3.4	<0.1	<0.05	6	<0.5	<0.2																
TLE 20N	Soil	28	0.59	121	0.146	6	2.18	0.013	0.15	<0.1	0.04	3.1	<0.1	<0.05	7	<0.5	<0.2																
TLE 40N	Soil	23	0.67	117	0.121	8	2.73	0.017	0.21	<0.1	0.03	3.3	<0.1	<0.05	8	<0.5	<0.2																
TLE 60N	Soil	34	0.61	122	0.108	4	2.51	0.011	0.10	0.1	0.03	3.2	<0.1	<0.05	8	<0.5	<0.2																
TLE 80N	Soil	24	0.44	97	0.135	3	1.50	0.011	0.07	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2																
TLE 100N	Soil	18	0.30	106	0.129	3	1.04	0.012	0.09	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2																

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**Wahl, Herb**

1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Project:

RIMFIRE

Report Date:

August 24, 2011

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

VAN11003468.1

Method	Analyte	Unit	1DX15																			
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm							
MDL			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
TLE 120N	Soil		0.5	15.0	6.6	70	<0.1	13.0	7.8	487	2.26	1.0	<0.5	1.9	34	0.2	<0.1	0.1	76	0.32	0.098	9
TLE 140N	Soil		0.6	18.1	6.7	84	<0.1	10.2	10.2	816	2.18	0.7	0.7	1.0	38	0.2	<0.1	0.1	71	0.35	0.121	6
TLE 160N	Soil		0.7	42.4	6.8	86	<0.1	18.7	12.9	840	2.81	2.5	1.9	1.8	81	0.5	0.2	0.1	96	0.73	0.141	9
TLE 180N	Soil		0.5	34.8	6.8	74	<0.1	24.6	13.1	528	2.80	2.3	<0.5	2.7	71	0.2	0.2	<0.1	91	0.56	0.133	10
TLE 200N	Soil		0.4	18.8	6.3	50	<0.1	8.8	8.1	629	2.21	0.7	1.2	1.0	28	0.1	<0.1	0.1	74	0.27	0.054	5
TLE 220N	Soil		0.3	16.9	7.5	47	0.1	7.0	6.3	371	1.94	1.1	1.2	1.0	66	0.2	0.1	0.1	59	0.43	0.067	5
TLE 260N	Soil		0.8	12.6	9.2	69	<0.1	4.3	4.8	941	1.48	0.8	0.9	0.5	46	0.3	0.1	<0.1	41	0.32	0.038	4
TLE 280N	Soil		0.7	13.8	9.8	63	0.1	5.8	6.6	1857	1.51	1.1	<0.5	0.5	62	0.6	0.1	<0.1	41	0.52	0.075	4
TLE 300N	Soil		0.2	14.5	5.3	46	<0.1	11.6	6.9	302	2.36	1.1	1.8	1.2	31	<0.1	0.1	<0.1	73	0.25	0.042	5
TLE 320N	Soil		0.5	15.3	5.4	63	<0.1	12.2	7.8	446	2.44	1.0	0.5	1.5	35	0.1	0.1	<0.1	75	0.28	0.053	5
TLE 360N	Soil		0.4	21.1	9.2	73	<0.1	10.2	9.1	708	2.31	1.5	0.8	1.0	32	0.2	0.1	0.1	69	0.37	0.070	6
TLE 380N	Soil		0.2	20.8	8.1	71	<0.1	8.8	8.6	366	2.44	1.1	2.1	1.2	29	<0.1	0.2	0.1	75	0.32	0.064	5
TLE 400N	Soil		0.4	18.6	11.2	74	<0.1	9.1	7.8	519	2.27	0.8	1.3	0.9	28	0.2	0.1	0.1	68	0.38	0.090	5
L332 00	Soil		0.3	15.0	5.7	54	<0.1	10.7	7.2	366	2.25	1.4	<0.5	1.7	31	<0.1	0.1	<0.1	66	0.30	0.048	7
L332 20W	Soil		0.4	16.2	6.1	64	<0.1	11.8	7.9	714	2.56	1.5	0.9	1.2	41	<0.1	0.1	<0.1	77	0.38	0.069	5
L332 40W	Soil		0.3	12.3	6.1	62	<0.1	10.1	7.0	407	2.24	1.0	<0.5	1.4	28	0.1	0.1	<0.1	72	0.30	0.064	5
L332 60W	Soil		0.4	16.1	6.9	69	<0.1	11.7	7.9	629	2.11	1.6	0.6	1.2	30	<0.1	0.1	0.1	66	0.27	0.063	6
L332 80W	Soil		0.4	21.4	5.9	65	<0.1	13.6	7.6	356	2.29	2.2	1.2	1.3	40	0.1	0.1	<0.1	69	0.30	0.104	6
L332 100W	Soil		0.4	16.4	6.1	59	<0.1	11.9	8.4	451	2.22	1.8	2.2	1.2	60	0.1	0.1	<0.1	67	0.39	0.158	5
L332 120W	Soil		0.4	24.8	6.4	67	<0.1	9.7	9.8	585	2.44	1.4	2.1	1.1	47	0.1	0.1	0.1	77	0.39	0.082	5
L332 140W	Soil		0.2	29.0	6.3	72	<0.1	19.4	10.7	331	2.66	2.1	0.7	1.6	54	<0.1	0.1	0.1	85	0.44	0.127	6
L332 160W	Soil		0.2	16.0	6.2	54	<0.1	8.1	7.0	349	2.32	1.0	2.4	0.9	34	<0.1	0.1	0.1	78	0.34	0.043	4
L332 180W	Soil		0.4	20.6	5.4	112	<0.1	13.5	8.6	547	2.61	1.5	1.0	1.5	110	0.2	0.1	<0.1	78	0.49	0.101	6
L332 200W	Soil		0.4	14.3	5.2	81	<0.1	12.6	8.1	522	2.41	1.3	<0.5	1.4	59	0.3	<0.1	<0.1	65	0.35	0.214	6
L332 220W	Soil		0.4	20.4	5.4	80	<0.1	11.8	8.4	458	2.78	1.4	0.6	1.3	79	0.2	0.1	<0.1	79	0.37	0.093	6
L332 240W	Soil		0.4	21.2	6.4	62	<0.1	15.0	9.1	455	2.72	1.6	3.4	2.1	65	0.2	0.2	<0.1	79	0.47	0.059	7
L332 260W	Soil		0.4	22.6	7.1	115	0.2	23.0	11.2	563	2.97	2.3	<0.5	1.9	55	0.2	0.2	0.2	78	0.38	0.172	7
L332 280W	Soil		0.4	27.4	6.1	70	<0.1	19.5	11.1	468	3.08	2.3	4.1	2.4	67	0.1	0.2	0.1	89	0.55	0.049	9
L332 300W	Soil		0.4	20.3	5.7	68	<0.1	15.2	8.5	390	2.78	1.9	0.8	1.9	58	<0.1	0.1	<0.1	88	0.46	0.047	7
L332 320W	Soil		0.4	21.5	6.1	69	<0.1	20.1	9.6	386	3.12	2.8	1.6	2.2	52	0.1	0.2	<0.1	98	0.40	0.069	9

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

Client:

**Wahl, Herb**  
1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Project: RIMFIRE  
Report Date: August 24, 2011

Page: 3 of 5 Part 2

## CERTIFICATE OF ANALYSIS

VAN11003468.1

Analyte	Method	1DX15															
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
TLE 120N	Soil	28	0.48	86	0.119	4	1.64	0.012	0.09	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
TLE 140N	Soil	21	0.52	95	0.116	7	1.94	0.015	0.10	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
TLE 160N	Soil	31	0.76	93	0.129	8	2.34	0.058	0.18	<0.1	0.04	3.0	<0.1	<0.05	6	<0.5	<0.2
TLE 180N	Soil	40	0.75	90	0.142	5	2.46	0.025	0.17	0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
TLE 200N	Soil	20	0.39	49	0.109	3	1.10	0.009	0.07	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
TLE 220N	Soil	15	0.26	55	0.095	5	1.01	0.009	0.10	<0.1	0.03	1.4	<0.1	0.06	4	<0.5	<0.2
TLE 260N	Soil	10	0.20	71	0.084	4	0.72	0.012	0.06	<0.1	0.04	1.1	<0.1	0.06	3	<0.5	<0.2
TLE 280N	Soil	12	0.18	105	0.063	5	0.92	0.011	0.08	<0.1	0.05	1.2	<0.1	0.08	4	<0.5	<0.2
TLE 300N	Soil	28	0.37	53	0.119	3	1.26	0.010	0.05	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
TLE 320N	Soil	26	0.41	60	0.118	4	1.39	0.011	0.07	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
TLE 360N	Soil	20	0.49	71	0.118	4	1.72	0.011	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
TLE 380N	Soil	20	0.50	38	0.126	4	1.62	0.010	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
TLE 400N	Soil	19	0.43	57	0.104	4	1.77	0.019	0.07	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
L332 00	Soil	25	0.43	55	0.124	3	1.46	0.010	0.07	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
L332 20W	Soil	26	0.41	93	0.120	4	1.71	0.013	0.13	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
L332 40W	Soil	25	0.33	62	0.125	3	1.21	0.009	0.06	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
L332 60W	Soil	21	0.37	67	0.104	4	1.47	0.011	0.08	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
L332 80W	Soil	25	0.45	62	0.102	3	2.01	0.012	0.10	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
L332 100W	Soil	23	0.39	87	0.098	3	1.70	0.010	0.09	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
L332 120W	Soil	20	0.43	72	0.118	4	1.50	0.010	0.12	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
L332 140W	Soil	26	0.59	77	0.113	4	2.31	0.012	0.11	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
L332 160W	Soil	21	0.29	48	0.118	3	1.16	0.012	0.05	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
L332 180W	Soil	25	0.51	99	0.127	4	2.04	0.013	0.14	<0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
L332 200W	Soil	25	0.42	83	0.104	4	1.95	0.012	0.08	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
L332 220W	Soil	21	0.48	88	0.132	3	2.14	0.014	0.09	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
L332 240W	Soil	33	0.50	71	0.146	6	1.69	0.012	0.16	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
L332 260W	Soil	35	0.59	112	0.114	5	2.66	0.013	0.13	<0.1	0.03	3.0	<0.1	<0.05	8	<0.5	<0.2
L332 280W	Soil	33	0.68	88	0.153	3	2.11	0.020	0.19	<0.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
L332 300W	Soil	31	0.56	69	0.145	3	1.81	0.018	0.14	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
L332 320W	Soil	41	0.59	65	0.151	4	1.76	0.018	0.13	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2

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Page: 4 of 5 Part 1

VAN11003468.1

## CERTIFICATE OF ANALYSIS

Analyte	Method	1DX15																		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
L332 340W	Soil	0.5	17.5	6.3	93	<0.1	19.2	9.2	628	2.78	2.1	1.1	1.5	54	0.2	0.2	0.1	84	0.44	0.123
L332 360W	Soil	0.6	53.1	7.0	65	<0.1	27.7	14.3	525	3.52	5.1	3.0	3.5	75	0.1	0.3	0.1	95	0.64	0.088
L332 380W	Soil	0.4	19.0	6.7	107	0.1	18.3	10.2	608	2.87	2.2	1.2	1.5	47	0.2	0.1	<0.1	80	0.42	0.202
L332 400W	Soil	0.4	21.8	6.6	79	0.2	17.7	9.7	447	3.24	3.6	0.9	1.5	69	0.3	0.4	<0.1	90	0.43	0.286
L332 420W	Soil	0.4	20.4	7.1	59	<0.1	14.4	9.3	480	3.30	2.6	0.6	1.1	56	0.2	0.2	<0.1	102	0.50	0.084
L332 440W	Soil	0.4	634.2	5.9	43	0.9	27.0	7.2	248	2.09	5.5	6.8	1.3	134	1.0	0.4	0.1	64	1.87	0.119
L332 460W	Soil	0.5	31.1	6.6	63	<0.1	18.5	11.2	467	3.13	4.1	1.5	1.4	78	0.3	0.2	<0.1	102	0.65	0.112
L332 480W	Soil	0.6	23.1	7.6	57	0.1	12.0	9.6	698	2.88	2.6	1.2	0.7	53	0.3	0.2	<0.1	94	0.59	0.041
L332 500W	Soil	0.4	18.0	7.7	62	<0.1	13.2	8.3	458	3.19	4.1	1.6	0.9	71	0.2	0.2	<0.1	101	0.78	0.087
L332 520W	Soil	0.4	27.2	6.4	62	<0.1	17.9	11.0	370	3.00	3.4	0.8	1.5	71	0.2	0.2	<0.1	93	0.62	0.130
L332 540W	Soil	0.7	601.6	5.9	57	0.9	22.8	9.6	1727	1.61	6.2	3.4	0.5	173	1.3	0.3	<0.1	76	2.79	0.195
L332 560W	Soil	1.1	126.2	4.1	14	0.1	4.0	0.9	182	0.07	0.7	1.2	<0.1	158	1.0	0.3	<0.1	92	4.21	0.128
L332 580W	Soil	0.4	261.2	15.1	86	0.7	19.1	11.8	2334	2.46	7.2	1.2	1.5	103	0.6	0.2	<0.1	98	1.48	0.043
L332 600W	Soil	0.4	56.6	18.5	126	0.2	16.1	11.6	623	3.41	0.5	0.9	1.6	70	0.2	0.3	<0.1	115	0.58	0.038
L432 00	Soil	0.8	32.6	8.9	79	<0.1	12.9	11.0	1863	2.45	5.1	1.0	1.0	63	0.4	0.1	<0.1	74	0.64	0.185
L432 20W	Soil	1.2	22.7	6.3	22	<0.1	3.3	2.9	217	1.00	3.7	<0.5	0.2	111	0.4	<0.1	<0.1	36	1.17	0.069
L432 40W	Soil	0.7	52.5	7.4	85	<0.1	10.9	16.0	1559	3.60	6.4	<0.5	0.9	66	0.2	<0.1	<0.1	102	0.75	0.297
L432 60W	Soil	0.5	21.6	7.5	58	<0.1	9.5	8.5	883	2.14	4.6	<0.5	1.0	51	0.4	<0.1	0.1	74	0.59	0.169
L432 80W	Soil	0.7	46.8	6.2	79	<0.1	17.6	12.6	667	2.80	9.5	<0.5	0.5	57	0.4	0.1	0.1	94	0.72	0.361
L432 100W	Soil	0.8	24.9	9.3	98	<0.1	10.1	10.0	1000	2.48	4.8	0.5	0.9	31	0.4	0.1	0.1	82	0.36	0.060
L432 120W	Soil	0.4	20.3	8.2	48	<0.1	6.7	7.5	570	2.24	4.8	0.5	1.0	34	0.1	0.1	0.1	78	0.38	0.087
L432 140W	Soil	0.4	26.0	6.9	93	<0.1	16.8	11.9	536	2.81	5.0	0.5	1.2	35	0.2	0.2	<0.1	98	0.35	0.084
L432 160W	Soil	0.4	23.2	6.8	83	<0.1	19.0	10.0	427	2.51	5.1	<0.5	1.7	37	0.1	0.2	0.1	78	0.39	0.095
L432 180W	Soil	0.5	25.3	5.7	66	<0.1	19.1	9.5	422	2.59	2.5	<0.5	1.8	50	0.3	0.3	0.3	74	0.46	0.089
L432 200W	Soil	0.4	22.2	5.7	66	<0.1	18.8	9.5	376	2.67	2.2	<0.5	2.1	47	0.2	0.2	0.2	81	0.44	0.070
L432 220W	Soil	0.7	30.6	5.6	68	<0.1	17.1	10.5	627	2.34	1.6	1.8	1.3	49	0.4	0.3	0.3	78	0.50	0.067
L432 240W	Soil	0.4	18.5	8.1	53	<0.1	10.0	7.9	476	2.19	1.4	<0.5	1.3	32	0.4	0.4	0.3	75	0.32	0.042
L432 260W	Soil	0.5	22.2	5.4	51	<0.1	13.0	9.2	584	2.61	2.9	0.6	1.5	37	0.4	0.4	0.4	82	0.32	0.094
L432 280W	Soil	0.5	23.6	6.3	65	0.1	15.6	10.7	985	2.66	3.4	<0.5	0.8	67	0.4	0.3	0.2	79	0.73	0.156
L432 300W	Soil	0.9	372.7	2.5	7	0.3	21.0	8.4	1398	0.51	4.7	3.5	0.2	229	0.6	1.2	0.2	54	4.56	0.127

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Phone (604) 253-3158 Fax (604) 253-1716

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Client:

**Wahl, Herb**

1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

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Page: 4 of 5 Part 2

## CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15															
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
L332 340W	Soil	33	0.56	102	0.122	4	1.98	0.014	0.12	<0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
L332 360W	Soil	49	0.80	82	0.151	4	2.38	0.031	0.26	<0.1	0.01	5.7	0.1	<0.05	6	<0.5	<0.2
L332 380W	Soil	29	0.54	120	0.118	4	2.38	0.012	0.14	<0.1	0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
L332 400W	Soil	29	0.46	108	0.113	6	2.79	0.017	0.10	<0.1	0.03	2.9	<0.1	<0.05	8	<0.5	<0.2
L332 420W	Soil	29	0.42	74	0.129	4	1.98	0.011	0.14	<0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
L332 440W	Soil	63	0.49	104	0.075	11	1.91	0.124	0.09	0.1	0.18	3.2	0.1	0.05	4	1.7	<0.2
L332 460W	Soil	30	0.58	59	0.128	7	2.54	0.013	0.16	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
L332 480W	Soil	24	0.35	57	0.113	6	1.67	0.013	0.07	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
L332 500W	Soil	27	0.41	47	0.116	5	1.80	0.041	0.11	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
L332 520W	Soil	32	0.61	77	0.119	6	2.34	0.016	0.11	<0.1	0.05	3.3	<0.1	<0.05	6	<0.5	<0.2
L332 540W	Soil	34	0.52	102	0.039	15	1.72	0.138	0.08	<0.1	0.17	2.2	0.1	0.12	4	2.1	<0.2
L332 560W	Soil	4	0.23	23	0.003	27	0.07	0.030	0.04	<0.1	0.12	0.1	<0.1	0.27	<1	1.7	<0.2
L332 580W	Soil	33	0.53	88	0.082	7	2.64	0.059	0.06	<0.1	0.05	4.1	<0.1	<0.05	6	0.5	<0.2
L332 600W	Soil	35	0.63	70	0.160	2	2.57	0.042	0.07	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
L432 00	Soil	21	0.50	123	0.140	4	2.41	0.022	0.11	<0.1	0.05	2.2	<0.1	<0.05	7	<0.5	<0.2
L432 20W	Soil	7	0.16	53	0.081	4	0.56	0.014	0.07	<0.1	0.09	0.9	<0.1	0.12	3	0.8	<0.2
L432 40W	Soil	17	0.84	95	0.198	7	3.99	0.022	0.18	<0.1	0.04	2.7	<0.1	<0.05	9	<0.5	<0.2
L432 60W	Soil	21	0.39	77	0.141	3	1.40	0.013	0.10	<0.1	0.03	1.9	<0.1	<0.05	5	0.6	<0.2
L432 80W	Soil	22	0.59	82	0.128	5	3.32	0.021	0.11	<0.1	0.05	2.3	<0.1	<0.05	8	<0.5	<0.2
L432 100W	Soil	22	0.43	76	0.142	2	1.43	0.014	0.10	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
L432 120W	Soil	19	0.29	52	0.133	2	0.91	0.015	0.08	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
L432 140W	Soil	32	0.53	69	0.148	3	1.85	0.012	0.09	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
L432 160W	Soil	36	0.55	77	0.135	2	1.72	0.011	0.16	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
L432 180W	Soil	35	0.58	68	0.117	3	1.85	0.015	0.12	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
L432 200W	Soil	36	0.55	65	0.136	2	1.63	0.011	0.12	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
L432 220W	Soil	27	0.50	77	0.108	4	1.52	0.011	0.10	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
L432 240W	Soil	23	0.37	49	0.129	3	0.99	0.014	0.08	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
L432 260W	Soil	30	0.41	55	0.123	5	1.41	0.011	0.09	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
L432 280W	Soil	27	0.38	96	0.097	7	1.70	0.011	0.15	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
L432 300W	Soil	22	0.27	46	0.007	29	0.37	0.035	0.03	<0.1	0.21	0.6	0.2	0.27	<1	5.2	<0.2

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1416 Ocean Beach Espl.  
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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La		
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm											
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1
L432 320W	Soil	0.9	24.5	8.1	47	<0.1	7.6	8.7	470	3.08	1.5	<0.5	0.9	34	0.3	0.3	0.2	108	0.48	0.011	4		
L432 340W	Soil	0.9	37.2	6.6	39	0.3	14.0	9.7	1146	2.57	2.8	<0.5	0.9	85	0.8	0.3	0.2	84	0.94	0.062	6		
L432 360W	Soil	0.4	24.1	6.4	57	0.1	14.3	9.5	443	2.98	2.4	<0.5	1.3	82	0.4	0.3	0.2	92	0.65	0.017	5		
L432 380W	Soil	0.6	23.0	4.9	64	0.1	16.2	8.3	402	2.65	3.4	2.3	1.6	142	0.2	0.3	0.1	78	0.76	0.171	6		
L432 400W	Soil	0.7	29.7	5.7	61	0.1	14.7	9.6	968	2.84	2.9	1.2	1.9	114	0.3	0.2	0.1	85	0.90	0.118	7		
L432 420W	Soil	0.6	24.7	5.9	67	0.2	15.9	9.8	670	3.15	3.0	1.5	1.7	74	0.2	0.2	0.1	94	0.51	0.159	6		
L432 440W	Soil	0.7	32.6	5.8	63	0.2	17.5	11.0	463	3.48	4.3	0.8	1.7	94	0.1	0.2	0.1	106	0.60	0.128	8		
L432 460W	Soil	0.6	15.9	7.0	61	0.1	13.7	8.7	751	2.87	1.8	22.3	1.1	52	0.4	0.2	0.1	85	0.49	0.123	5		
L432 480W	Soil	0.5	19.5	7.0	80	0.1	15.8	9.4	952	3.20	2.8	0.6	1.2	52	0.2	0.2	0.1	96	0.40	0.214	5		



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

Client:

**Wahl, Herb**  
1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Project:

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## CERTIFICATE OF ANALYSIS

VAN11003468.1

Method	Analyte	1DX15																	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
		ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2		
L432 320W	Soil	19	0.34	50	0.142	4	1.29	0.011	0.10	<0.1	0.01	1.9	<0.1	0.05	6	<0.5	<0.2		
L432 340W	Soil	23	0.39	93	0.097	6	1.52	0.012	0.07	<0.1	0.07	2.4	<0.1	0.05	5	<0.5	<0.2		
L432 360W	Soil	26	0.50	78	0.121	6	2.02	0.019	0.06	<0.1	0.03	3.0	<0.1	0.05	5	<0.5	<0.2		
L432 380W	Soil	27	0.51	100	0.106	3	2.21	0.012	0.15	<0.1	0.04	2.8	<0.1	<0.05	6	<0.5	<0.2		
L432 400W	Soil	27	0.49	131	0.123	4	1.95	0.013	0.16	<0.1	0.03	3.6	<0.1	0.06	6	<0.5	<0.2		
L432 420W	Soil	27	0.54	96	0.117	3	2.63	0.012	0.10	<0.1	0.03	3.4	<0.1	<0.05	8	<0.5	<0.2		
L432 440W	Soil	32	0.59	84	0.126	2	2.63	0.016	0.10	<0.1	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2		
L432 460W	Soil	28	0.38	93	0.110	4	1.59	0.010	0.07	<0.1	0.04	2.2	<0.1	<0.05	6	<0.5	<0.2		
L432 480W	Soil	30	0.39	105	0.111	4	1.96	0.012	0.03	<0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2		



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

## Acme Analytical Laboratories (Vancouver) Ltd.

## Client

**Wahl, Herb**  
1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Project

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# QUALITY CONTROL REPORT

VAN11003468.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm							
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
L232 220W	Soil	0.5	26.7	6.0	74	<0.1	13.4	9.5	684	3.04	2.1	2.7	1.4	102	0.2	0.2	<0.1	103	0.67	0.093	6
REP L232 220W	QC	0.4	27.1	6.2	72	<0.1	11.5	10.1	691	3.14	1.5	2.4	1.5	108	0.2	0.1	<0.1	106	0.64	0.092	7
TLE 180N	Soil	0.5	34.8	6.8	74	<0.1	24.6	13.1	528	2.80	2.3	<0.5	2.7	71	0.2	0.2	<0.1	91	0.56	0.133	10
REP TLE 180N	QC	0.4	32.9	6.4	73	<0.1	23.3	12.2	516	2.73	2.7	0.8	2.5	67	0.1	0.2	0.1	89	0.54	0.127	10
TLE 380N	Soil	0.2	20.8	8.1	71	<0.1	8.8	8.6	366	2.44	1.1	2.1	1.2	29	<0.1	0.2	0.1	75	0.32	0.064	5
REP TLE 380N	QC	0.2	21.3	8.3	74	<0.1	9.3	8.7	362	2.44	1.4	1.9	1.2	30	<0.1	0.2	0.1	79	0.33	0.068	5
L332 380W	Soil	0.4	19.0	6.7	107	0.1	18.3	10.2	608	2.87	2.2	1.2	1.5	47	0.2	0.1	<0.1	80	0.42	0.202	6
REP L332 380W	QC	0.4	19.2	6.6	109	0.1	19.2	10.5	619	2.91	2.1	1.2	1.5	47	0.2	0.1	0.1	81	0.45	0.202	6
L332 540W	Soil	0.7	601.6	5.9	57	0.9	22.8	9.6	1727	1.61	6.2	3.4	0.5	173	1.3	0.3	<0.1	76	2.79	0.195	23
REP L332 540W	QC	0.6	593.0	5.8	55	0.9	22.8	9.8	1740	1.57	5.9	3.8	0.5	169	1.3	0.3	<0.1	72	2.68	0.193	23
L432 360W	Soil	0.4	24.1	6.4	57	0.1	14.3	9.5	443	2.98	2.4	<0.5	1.3	82	0.4	0.3	0.2	92	0.65	0.017	5
REP L432 360W	QC	0.4	23.9	6.5	60	0.1	14.3	9.6	452	3.00	2.1	1.9	1.3	84	0.3	0.3	0.2	96	0.69	0.019	6
Reference Materials																					
STD DS8	Standard	13.5	122.8	127.2	316	1.7	42.2	8.2	625	2.51	30.4	104.6	6.9	68	2.3	5.9	6.7	49	0.69	0.082	14
STD DS8	Standard	14.8	122.1	129.3	322	1.8	41.7	8.2	615	2.43	29.5	111.1	7.1	71	2.4	6.0	6.5	48	0.71	0.081	15
STD DS8	Standard	13.5	110.1	123.9	308	1.9	37.2	7.8	626	2.52	24.9	119.6	6.9	71	2.4	5.4	6.5	41	0.69	0.081	15
STD DS8	Standard	12.6	102.4	122.4	311	1.9	35.8	7.2	596	2.41	23.9	114.9	6.9	68	2.2	5.4	6.3	40	0.66	0.084	15
STD DS8	Standard	14.7	116.3	132.5	322	1.9	40.4	8.2	654	2.47	25.2	113.8	7.1	76	2.3	6.2	7.3	45	0.73	0.082	15
STD DS8	Standard	14.1	108.1	126.1	315	1.8	37.4	7.7	629	2.36	23.7	121.1	6.9	73	2.3	5.8	6.8	43	0.73	0.079	16
STD DS8	Standard	13.0	116.2	124.2	321	2.0	40.5	8.0	618	2.54	26.5	111.4	6.8	66	2.6	5.8	7.0	44	0.69	0.080	15
STD DS8	Standard	14.8	125.2	126.6	321	1.8	42.4	8.3	651	2.62	26.4	123.9	7.1	69	2.5	5.9	7.2	47	0.74	0.085	15
STD DS8	Standard	13.7	120.0	125.7	331	1.9	40.9	8.2	637	2.60	26.3	116.3	7.0	67	2.6	5.8	6.9	45	0.70	0.083	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

Client: **Wahl, Herb**  
1416 Ocean Beach Espl.  
Gibson BC V0N 1V3 Canada

Project: RIMFIRE  
Report Date: August 24, 2011

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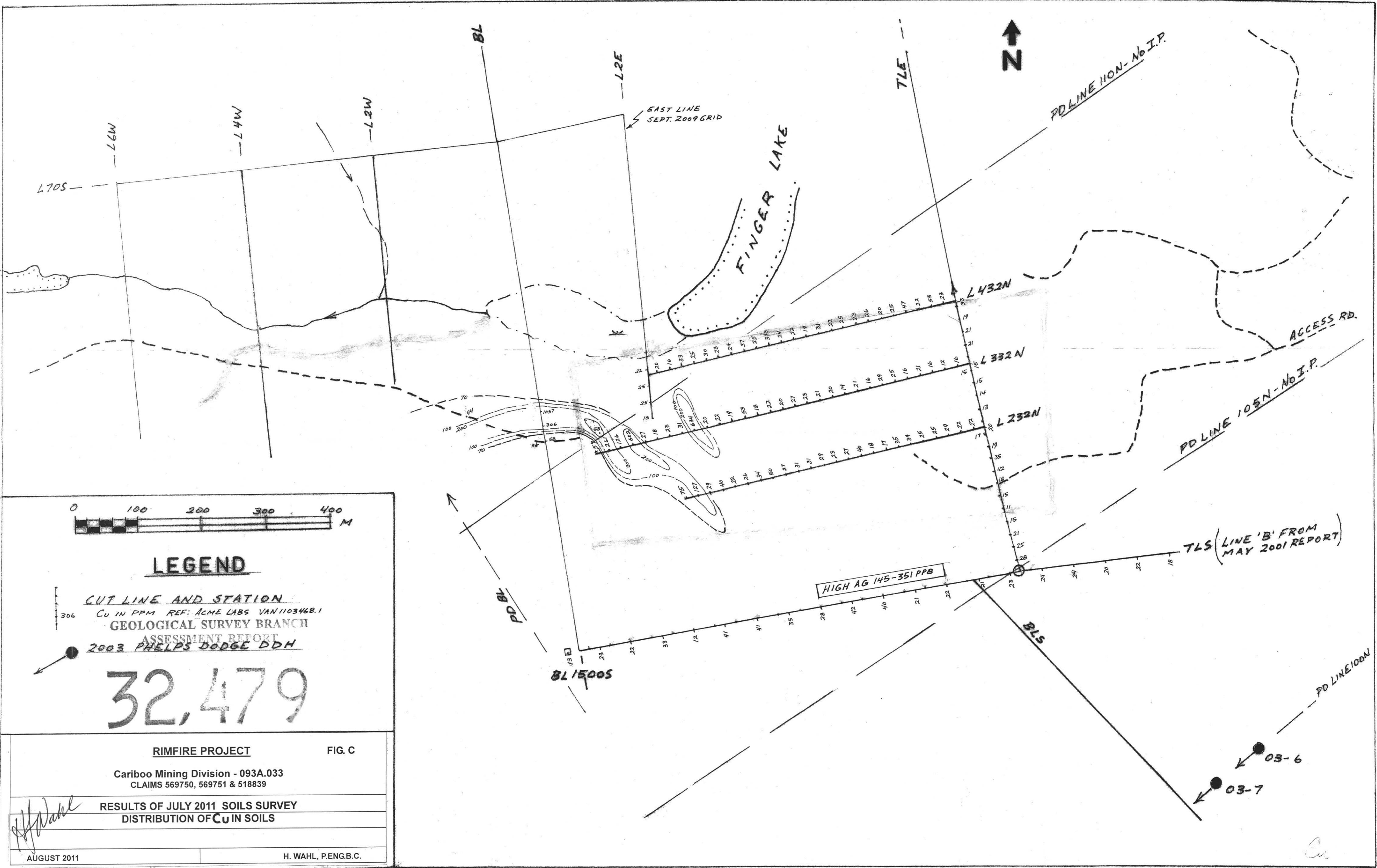
Page: 1 of 1 Part 2

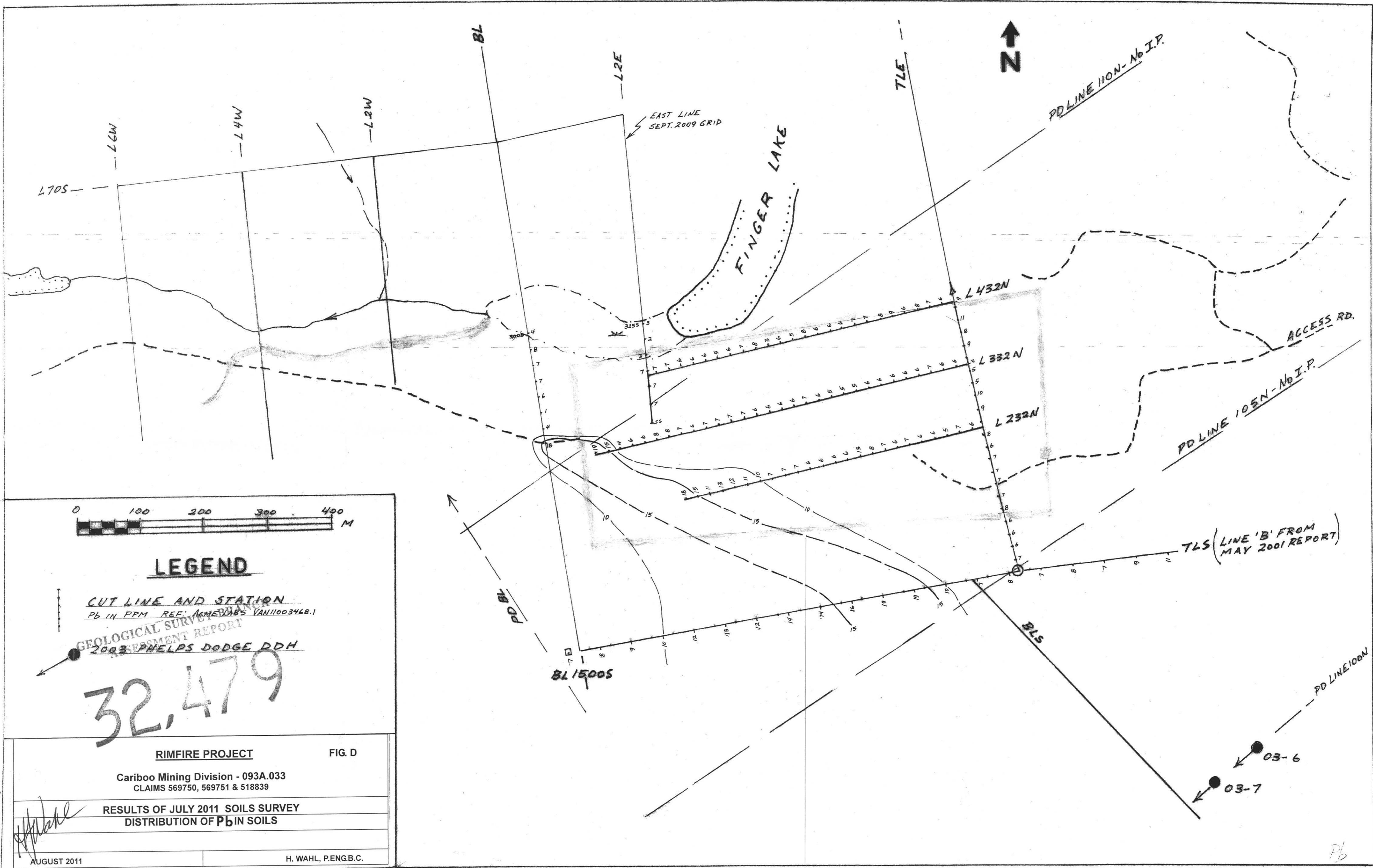
## QUALITY CONTROL REPORT

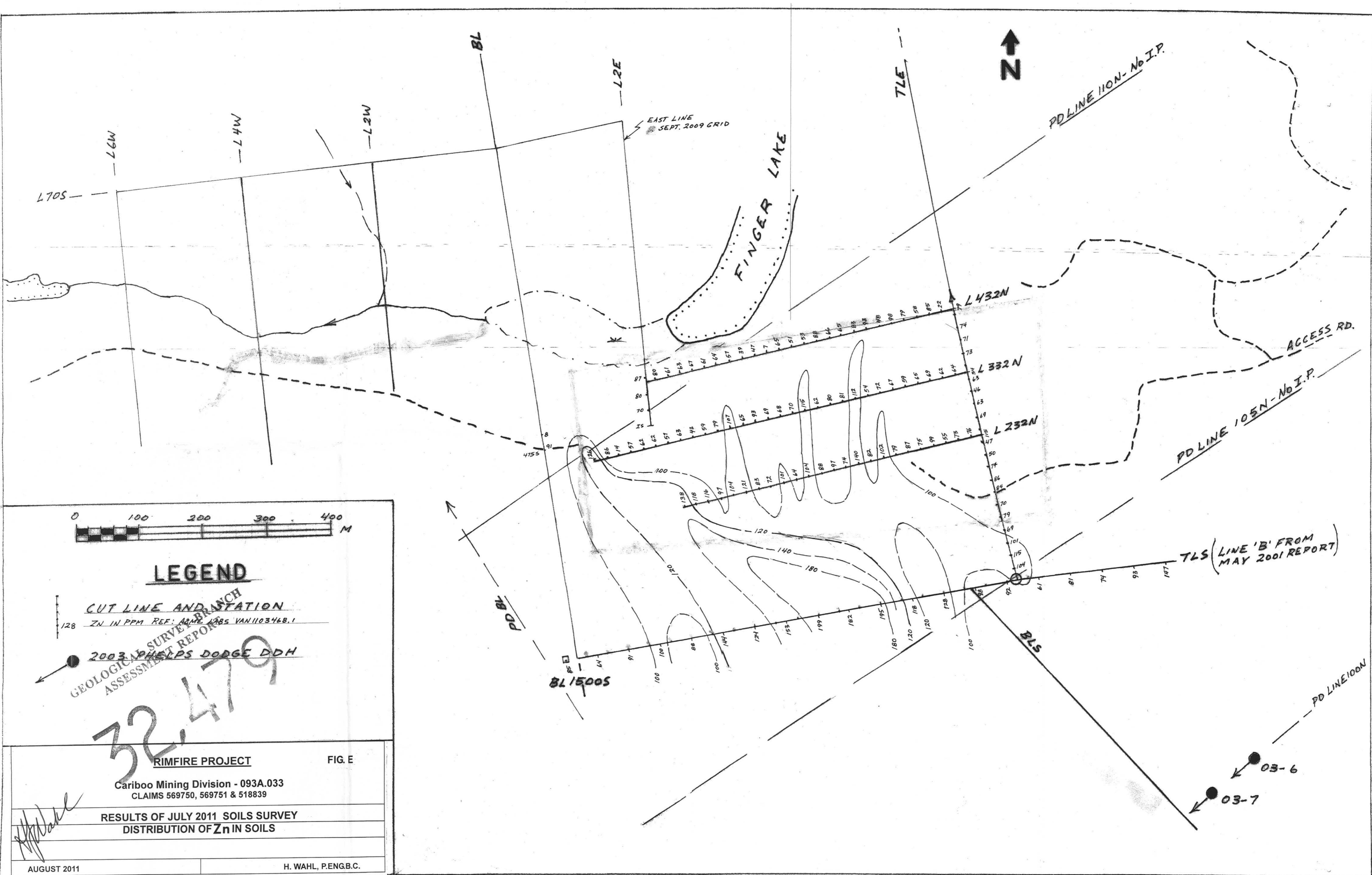
VAN11003468.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
<b>Pulp Duplicates</b>																	
L232 220W	Soil	28	0.61	88	0.145	4	2.14	0.012	0.12	<0.1	0.01	3.2	<0.1	<0.05	7	<0.5	<0.2
REP L232 220W	QC	25	0.60	89	0.146	4	2.12	0.012	0.12	<0.1	0.03	3.3	<0.1	<0.05	7	<0.5	<0.2
TLE 180N	Soil	40	0.75	90	0.142	5	2.46	0.025	0.17	0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
REP TLE 180N	QC	39	0.72	87	0.133	6	2.38	0.024	0.17	<0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
TLE 380N	Soil	20	0.50	38	0.126	4	1.62	0.010	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
REP TLE 380N	QC	20	0.49	38	0.128	3	1.60	0.009	0.08	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
L332 380W	Soil	29	0.54	120	0.118	4	2.38	0.012	0.14	<0.1	0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
REP L332 380W	QC	29	0.52	123	0.122	4	2.35	0.013	0.15	<0.1	0.02	3.0	<0.1	<0.05	8	<0.5	<0.2
L332 540W	Soil	34	0.52	102	0.039	15	1.72	0.138	0.08	<0.1	0.17	2.2	0.1	0.12	4	2.1	<0.2
REP L332 540W	QC	33	0.52	102	0.038	16	1.67	0.133	0.07	<0.1	0.17	2.2	0.1	0.11	4	2.1	<0.2
L432 360W	Soil	26	0.50	78	0.121	6	2.02	0.019	0.06	<0.1	0.03	3.0	<0.1	0.05	5	<0.5	<0.2
REP L432 360W	QC	27	0.52	82	0.123	4	2.05	0.019	0.07	<0.1	0.03	3.1	<0.1	0.06	5	<0.5	<0.2
<b>Reference Materials</b>																	
STD DS8	Standard	125	0.63	270	0.132	<1	0.91	0.086	0.39	2.9	0.19	2.1	5.3	0.15	5	5.2	5.1
STD DS8	Standard	126	0.61	282	0.138	2	0.92	0.088	0.41	2.9	0.18	2.1	5.2	0.19	4	5.7	5.7
STD DS8	Standard	114	0.64	278	0.118	3	0.93	0.096	0.45	2.7	0.20	2.3	5.5	0.18	5	5.8	4.6
STD DS8	Standard	109	0.61	270	0.114	3	0.94	0.093	0.42	2.9	0.19	2.2	5.1	0.15	5	4.1	4.8
STD DS8	Standard	129	0.71	298	0.129	3	0.96	0.090	0.44	3.3	0.23	2.4	5.6	0.17	5	5.9	4.8
STD DS8	Standard	123	0.67	288	0.125	2	0.95	0.096	0.42	2.9	0.19	2.1	5.2	0.19	5	4.9	4.7
STD DS8	Standard	120	0.62	275	0.117	2	0.90	0.085	0.41	2.8	0.20	2.3	5.5	0.20	5	4.4	4.5
STD DS8	Standard	131	0.66	297	0.134	3	0.99	0.094	0.41	3.1	0.22	2.5	5.6	0.20	5	5.6	5.1
STD DS8	Standard	123	0.63	276	0.122	2	0.92	0.088	0.43	3.0	0.21	2.3	5.5	0.20	5	5.6	5.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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**FIG. 3a**

