



Report

on the

Porphyry Project

Omineca Region, British Columbia  
Latitude 53° 21' N., Longitude 124° 37' W.  
NTS map sheet 93F/7E

by

BC Geological Survey  
Assessment Report  
32180

James W. McLeod, P. Geo.

on behalf of

Jacqueline A. McLeod  
and  
Omega Exploration Services Inc.

March 27, 2011  
Savona, British Columbia

32,180

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

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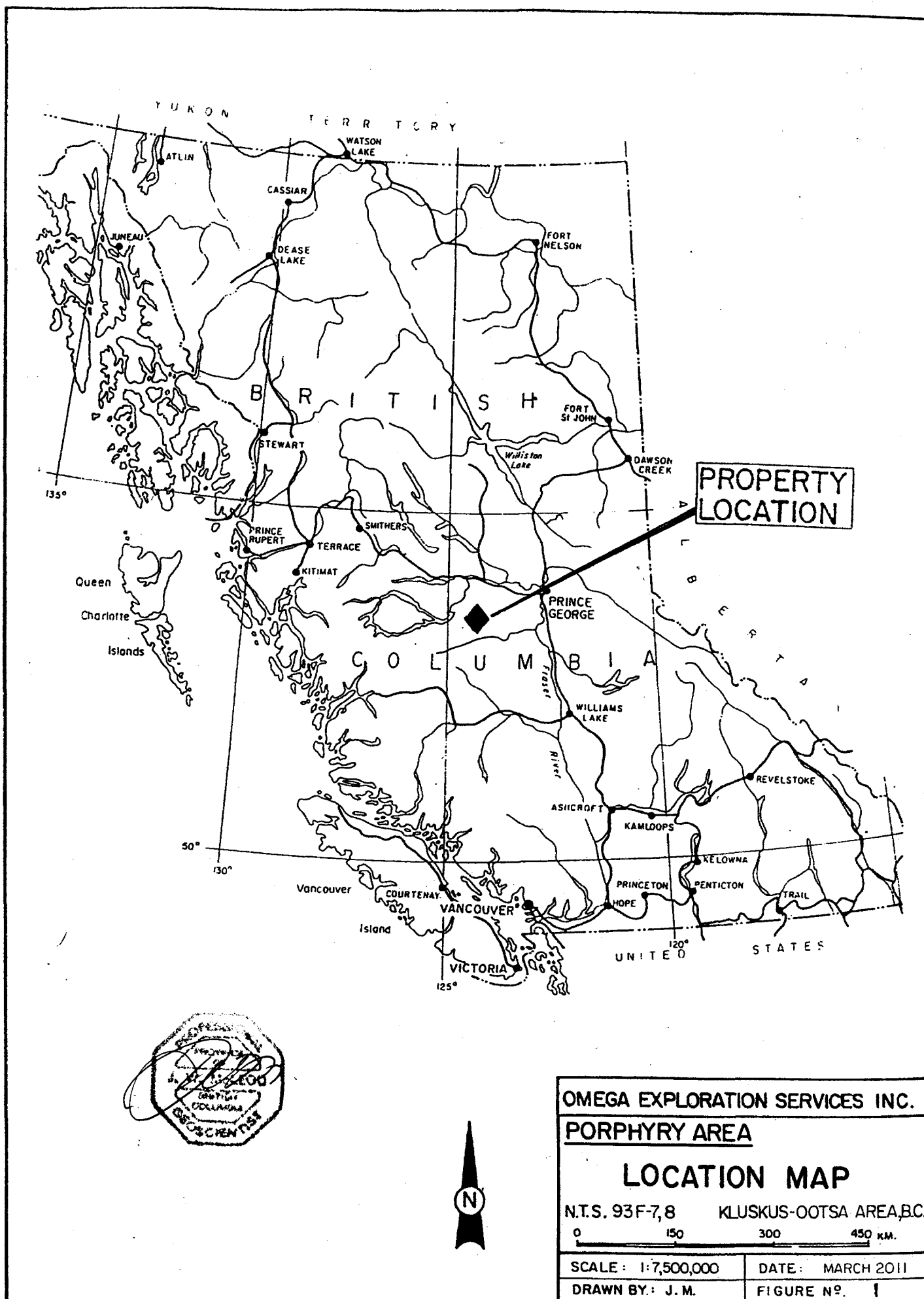
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## Summary

During the period August 10-16, 2010 fieldwork was carried-out over portions of the Porphyry property. The area is situated in the Omineca Region in central British Columbia. The project area is located about 125 km. by good all weather, paved and mainly gravel road south of the Town of Vanderhoof, B.C. The fieldwork program described herein includes rock exposure mapping, mobile metal ion (MMI) soil sampling, IONIC leach digestion and subsequent induction coupled plasma mass spectrophotometer (ICPMS) detection on the soil samples. The fieldwork was conducted over portions of the property that may be underlain by the same or similar intrusive rock units that affected the quartz stockwork system as occurs at the Chu molybdenum property which is situated adjacent to the western side of the Porphyry Claim. To date, the main emphasis of exploration work in the general area has been on the large zone of molybdenum (copper and tungsten) mineralization found at the Chu property now owned by TTM Resources Inc. of Vancouver, B.C.

The Porphyry area is hosted in a sequence of interlayered, metamorphosed volcano-sedimentary rocks that have in places been more strongly altered to a very hard, siliceous hornfels. The south central portion of the property is underlain by an intrusive rock unit, as a biotite-hornblende-feldspar granodiorite porphyry which is seen in places to be altered. The altered rock may be described as the "ghosting" of the mafic minerals, biotite-hornblende and the partial potassium replacement of the plagioclase lathes.

The Porphyry property area has revealed some interesting MMI - ionic leach results. The Porphyry area has as well undergone some historical diamond drill core testing for copper, gold and zinc (see Assessment Reports).



## Introduction

The current fieldwork program was conducted by and under the supervision of the author and consists of geological mapping, some rock exposure sampling and further MMI sampling and IONIC leach analyses.

The work program was conducted on behalf of Omega Exploration Services Inc. and J.A. McLeod of Savona, British Columbia.

## Location and Access

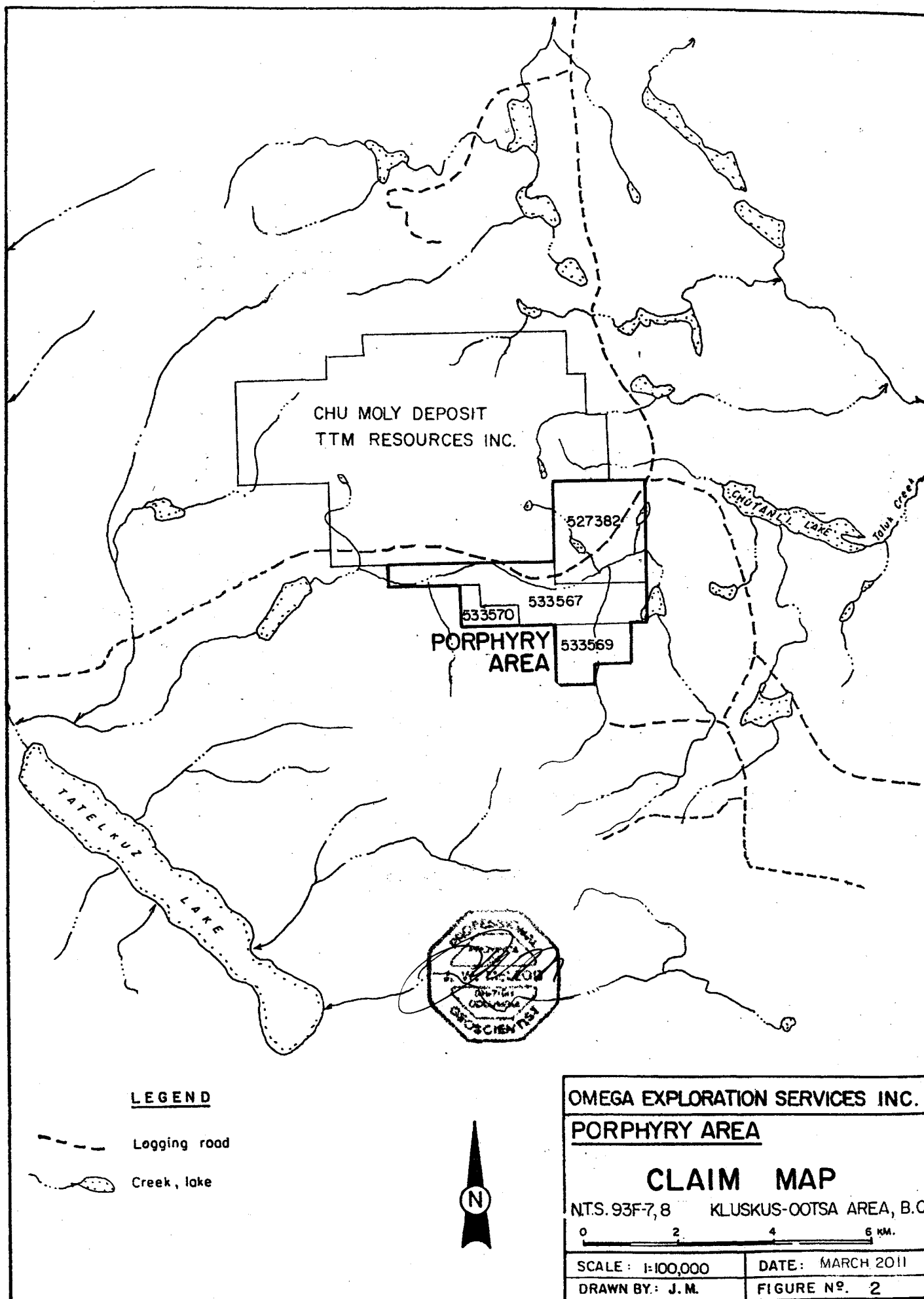
The property may be located on NTS map sheet, 93F/7E at approximately latitude  $53^{\circ} 21'$  north and longitude  $124^{\circ} 37'$  west. It is situated approximately 80 air-kilometres south of the Town of Vanderhoof, B.C., at the southeast end of the Nechako Range. The property lies within the Omineca Region, British Columbia.

Access to the property is gained by traveling approximately 25 km. southwest of the Town of Vanderhoof, B.C. on the Kenney Dam road and then southerly for about 100 km. on the Kluskus-Ootsa road. This major logging, haul-road can be described as a wide, good all weather, gravel surfaced access road.

Just southwest of the cutoff to Chutanli Lake at 98.5 km., the Kluskus-Ootsa road branches off to the west. At 98.5 km. on the Kluskus-Ootsa road it enters the northeast corner of the Porphyry #1 mineral claim and diagonally traverses it and leaves it in the southwest corner (see Figure 2). A number of other gravel roads traverse much of the claim area.

## Topographical and Physical Environment

The property lies within the Intermontane (physiographic) belt of the Interior Plateau. This regional area lies between the Coast Mountains on the west and the Columbia Mountains on the east. More particularly they are found to occur in the transition zone on the south end of what is called the Nechako Range between the northwesterly trending Nechako and Fraser plateaux. The claim area generally is fluvial-glacial overburden covered, rounded mountainous terrain and the general area reflects many glacial effects, in particular extensive drumlin (moraine) features. The claim area



ranges in elevation from approximately 1,050 metres (3,450') to 1,340 metres (4,400') mean sea level. The area is conifer covered with lodgepole pine and spruce. Much of the claim and general area has undergone extensive clearcut logging of the coniferous forest cover to try and salvage some goodness from the widespread and massive insect, pine beetle infestation. The general area lies within the sub-alpine biotic zone and experiences greater than 100 cm. of precipitation annually, of which 15%-25% may occur as a snow equivalent i.e. about 20 cm. The summers are generally mild with moderate precipitation and the winters can be very cold, but usually not for extended periods.

### Property and Ownership

The property described in this report is the Porphyry area. The claim particulars are listed as follows:

<u>Name</u>	<u>Tenure No.</u>	<u>Hectares (acres)</u>		<u>Good to Date</u>
Porphyry#1	527382	482	(1,191)	Feb. 10, 2012
Au#1	533567	483	(1,193)	May 04, 2012
N/N	533569	193	(476)	May 04, 2012
N/N	533570	<u>77</u>	<u>(190)</u>	May 04, 2012
		1,235	(3,050)	

\*N/N - No name

The claim area totals approximately 1,235 hectares or 3,050 acres. The above listed lode mineral claims are owned by Jacqueline McLeod and Omega Exploration Services Inc. of Savona, British Columbia.

### History

The recorded mining exploration history of the general property area dates from 1969-70 when several helicopter supported prospecting and regional geochemical silt survey programs found indications of anomalous copper, molybdenum and tungsten values in the general vicinity of Chutanli Lake.

Apparently, coincident reconnaissance silt surveys were conducted by Rio Tinto Canadian Explorations Ltd. and Asarco (American Smelting and

Refining Company) during 1969-70 led to a joint discovery of what is now known as the Chu molybdenum property.

During this early period, both companies undertook some shallow diamond core drilling. The author, during a fieldwork program he was conducting in 2003 located the remains of some of the drill core from Rio Tinto's 1969-70 diamond drilling program.

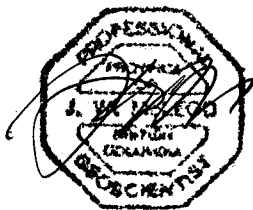
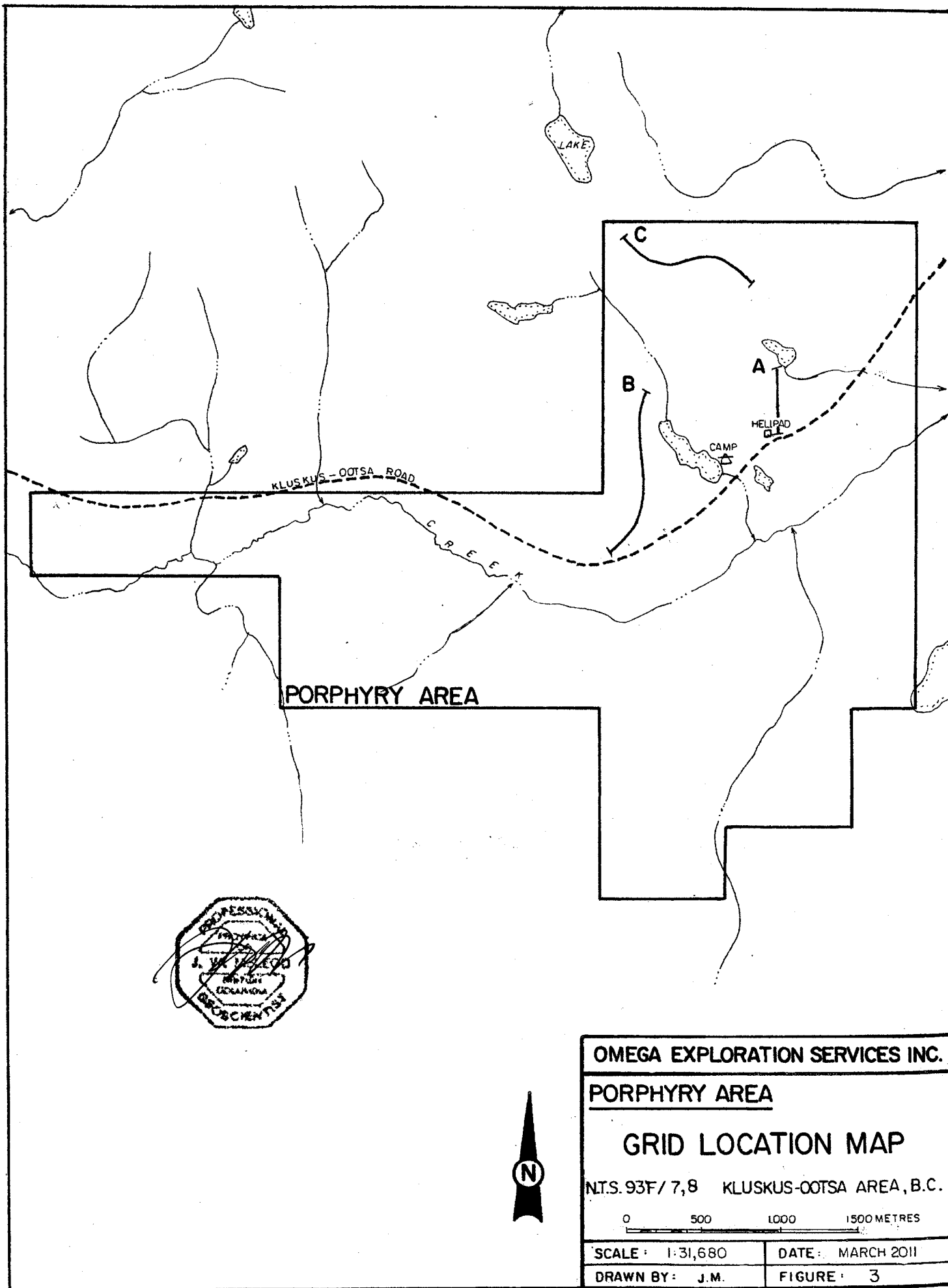
The construction of the Kluskus-Ootsa logging road in the 1970's saw Asarco consolidate the project areas and carry-out a number of geological, geochemical, geophysical surveys and some shallow diamond core drilling. They were joined by Armco Mineral Exploration Ltd. in a joint venture in 1979 which Armco managed. They conducted core drilling programs in 1980: DDH 1-3, 1981: DDH 1-7 and 1982: DDH 1-2. This fieldwork had partially outlined a large northwest-southeast trending zone of strong molybdenum-bearing mineralization in an interlayered meta-conglomerate and granodiorite quartz stockwork.

During 2006, TTM Resources Inc. (TTMRI) of Vancouver, B.C. acquired ownership of the Chu molybdenite deposit and undertook a large and extensive fieldwork program that led to the first NI 43-101 resource estimate for the property being filed by TTMRI in February, 2008.

## Regional Geology

The oldest rocks in the general area are volcanics and sediments which have been assigned to the Hazelton Group of Jurassic age. These rocks in places have been intruded by late Jurassic and early Cretaceous aged Coast Range plutonic rocks of granitic to dioritic composition that on the Chu Moly. Property generally occur as granodiorite, which are referred to in the property area as the Nechako intrusions. More than one period of intrusive activity appears to have affected the area. Some intrusive rocks observed in the general area appear to be younger than the Nechako intrusions and may be more alkalic in composition. These rock units appear to have in some places a close proximity to the stronger molybdenite, MoS<sub>2</sub> mineralized zones. The youngest rocks observed in the area are the andesite to basalt flow volcanics which are thought to be of Oligocene age. The host rocks of the mineral zone which is the focus of historical attention, the hornfelsed quartz stockwork is considered to be mainly contained within





OMEGA EXPLORATION SERVICES INC.

PORPHYRY AREA

**GRID LOCATION MAP**

N.T.S. 93F/ 7,8 KLUSKUS-OOTSA AREA, B.C.

0 500 1000 1500 METRES

SCALE: 1:31,680

DATE: MARCH 2011

DRAWN BY: J.M.

FIGURE: 3

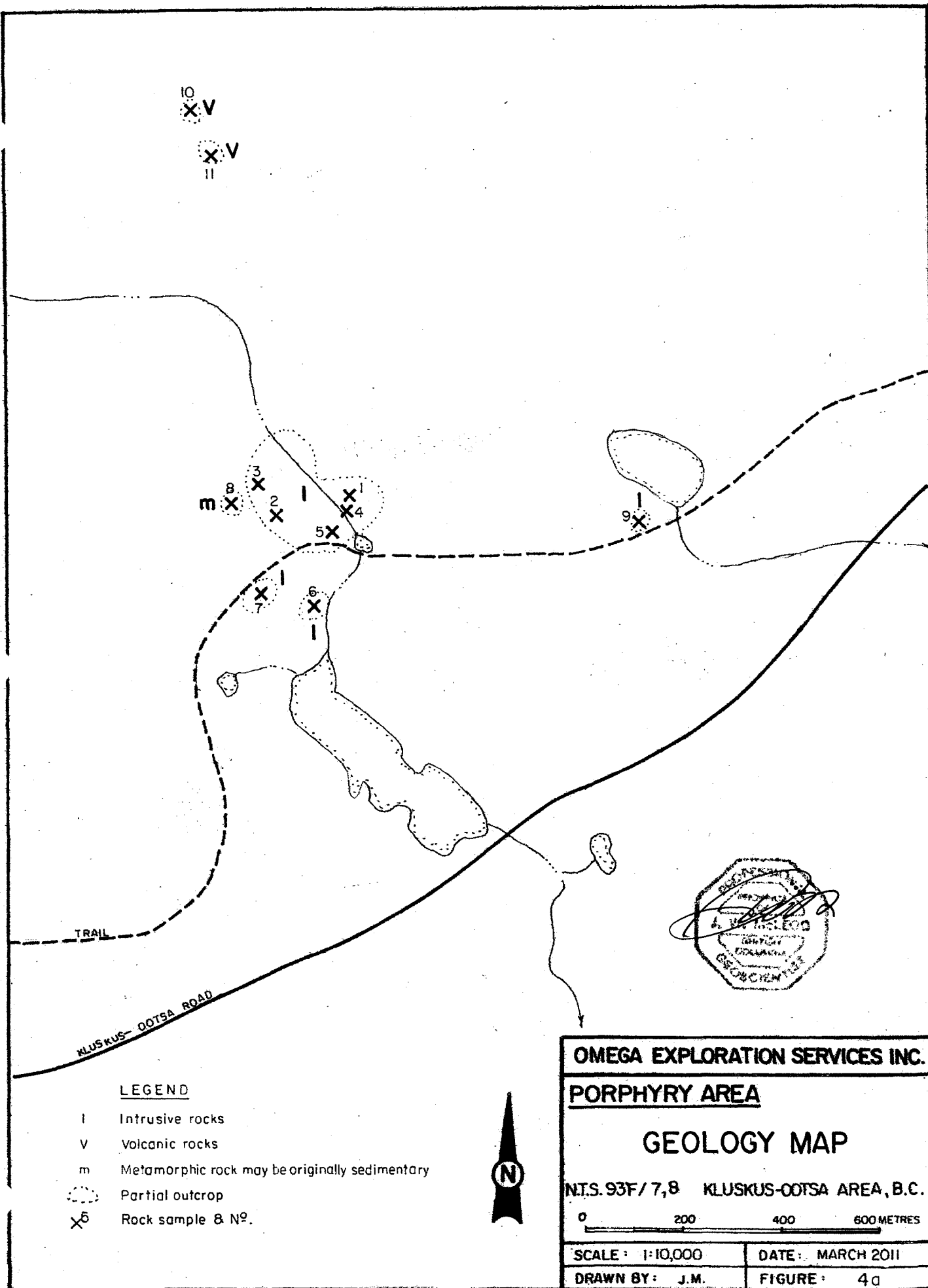
Hazelton Group rocks although this does not preclude a younger age of mineralization.

### Local Geology

The different rock units are found to occur as northwesterly striking and northeasterly dipping sediments and volcanics. The oldest underlying bedded rocks that are found to occur in the central area of the property as hornfelsed conglomerate, mudstone and quartzite and conformably overlain on the northeast side by northeasterly dipping clastic andesitic tuffs. These units appear to trend through the property in a northwest-southeast direction. The bedded sediments and volcanics are intrusive contacted with granitic rocks thought to be Coast Range intrusions of Jurassic age. The mineral host units appear to occur as a large package of older rocks that may represent a roof pendant lying on the intruding and somewhat interlayered granodiorite and being cut in places by the still younger alkalic (dyke) rocks.

The molybdenum mineralization is related to a quartz vein stockwork that is best developed in the hornfelsed (conglomerate) that have undergone varying degrees of biotitization following structural preparation (brittle fracturing) and subsequent quartz-welding. Pyrite and pyrrhotite are found widespread throughout the molybdenite ( $\text{MoS}_2$ ) mineralized zones and the core in general. The iron minerals on contacts of the hornfels unit appear to have undergone moderately strong oxidation. Local concentrations of minor chalcopyrite and possibly scheelite may offer the copper and tungsten values observed in portions of the core. The overall trend of the molybdenum mineralized zone appears to dip toward the northeast. The contact on the northeast side of the hornfels host is observed to be with the northwest trending Hazelton Group andesites. The contact of the same zone of mineralization on the southwest side of the hornfels is with Coast range intrusive units, i.e. granodiorite.

The copper-zinc-gold (Porphyry) area appears to have undergone some silicification and possibly a stronger contact metamorphic effect than the molybdenum zone that may be explained by its closer proximity to the igneous contact.



## Present Work Program

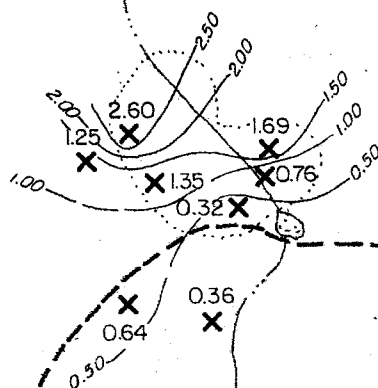
The present fieldwork program was undertaken during the period August 10-16, 2010 on the Porphyry area. A total of three MMI soil sampling traverses were conducted. The Porphyry #1 mineral claim, tenure number 527382 is thought to encompass three former project areas that are listed as follows: 1) formerly a Granges Exploration project, April and May mineral claims on a zinc occurrence in 1981; 2) formerly a Placer Development project on the CH mineral claims in 1992 and 3) formerly an Orvana Resources Corp. project in 1995-98 on the same CH mineral claims. Both 2) & 3) were carried out investigating copper-gold porphyry occurrences which were encountered.

The mobile metal ion soil sampling method employed during this project is described as follows: an area roughly 0.3 metre<sup>2</sup> is cleaned off and a vertical face is dug through the surface cover of, moss, needles, lichen, and organic matter of any significance. The type and thickness of this zone is recorded. The vertical face is deepened through the soil zone below the organic layer. The author tries to achieve an approximately 20 cm. vertical soil horizon that can be observed. The need to thoroughly clean the collection tools between each sample is thought to be very important especially if the sampled material is damp. The 0.84 - 1.84 kilogram samples were bagged in marked 30 cm. x 50 cm. polyethylene sample bag. The samples were sent by Canada Post to ALS Chemex laboratory in North Vancouver, B.C. where they are registered (booked-in) using our project names and sample numbers assigned a barcode and then sent by air to the ALS Chemex Laboratory in Perth, Australia for their IONIC leach (digestion) and subsequent induction coupled plasma mass spectrophotometer (ICPMS) analyses. The chosen multi-element IONIC leach package is called the ME-MS 23, a 60 element package plus final pH.

Instead of looking at each or singular element occurrences, these suites of elements can be looked at as more than one element observed and their accompanying behavior of coincidence, as well as possible anomalousness. This method may eventually be a technique with value in remote sub-surface mapping.

X 0.31

X 0.31



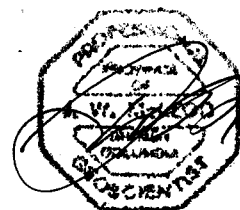
TRAIL

KLUSKUS- OOTSA ROAD

1.69

X

Sample location & potassium, %



OMEGA EXPLORATION SERVICES INC.

PORPHYRY AREA

ROCK GEOCHEMISTRY  
POTASSIUM

N.T.S. 93F/ 7,8 KLUSKUS-OOTSA AREA, B.C.

0 200 400 600 METRES

SCALE: 1:10,000

DATE: MARCH 2011

DRAWN BY: J.M.

FIGURE: 4b

## Conclusions

The results from the MMI soil sampling surveys exhibit some apparently anomalous values.

The analyses determined in the MMI-M or IONIC Leach tests are not those obtained using conventional multi-element methods. It is not that conventional soil analyses methods do not detect the elements, but it is the range of detection that is more complex because of the leach method which has a more totally digestive possibility. The method is thought to attain more quantitative results and therefore elevate the possibility of coincidence of anomalous suites to a more meaningful level of reliability. It has been found that certain elements group together and may have usefulness as pathfinder components. These elements normally reported by MMI and IONIC leach digestion and induction coupled plasma (ICP) detection are at times observed to share a relatively similar position in the periodic table and some appear to fit well with respective pathfinder element suites.

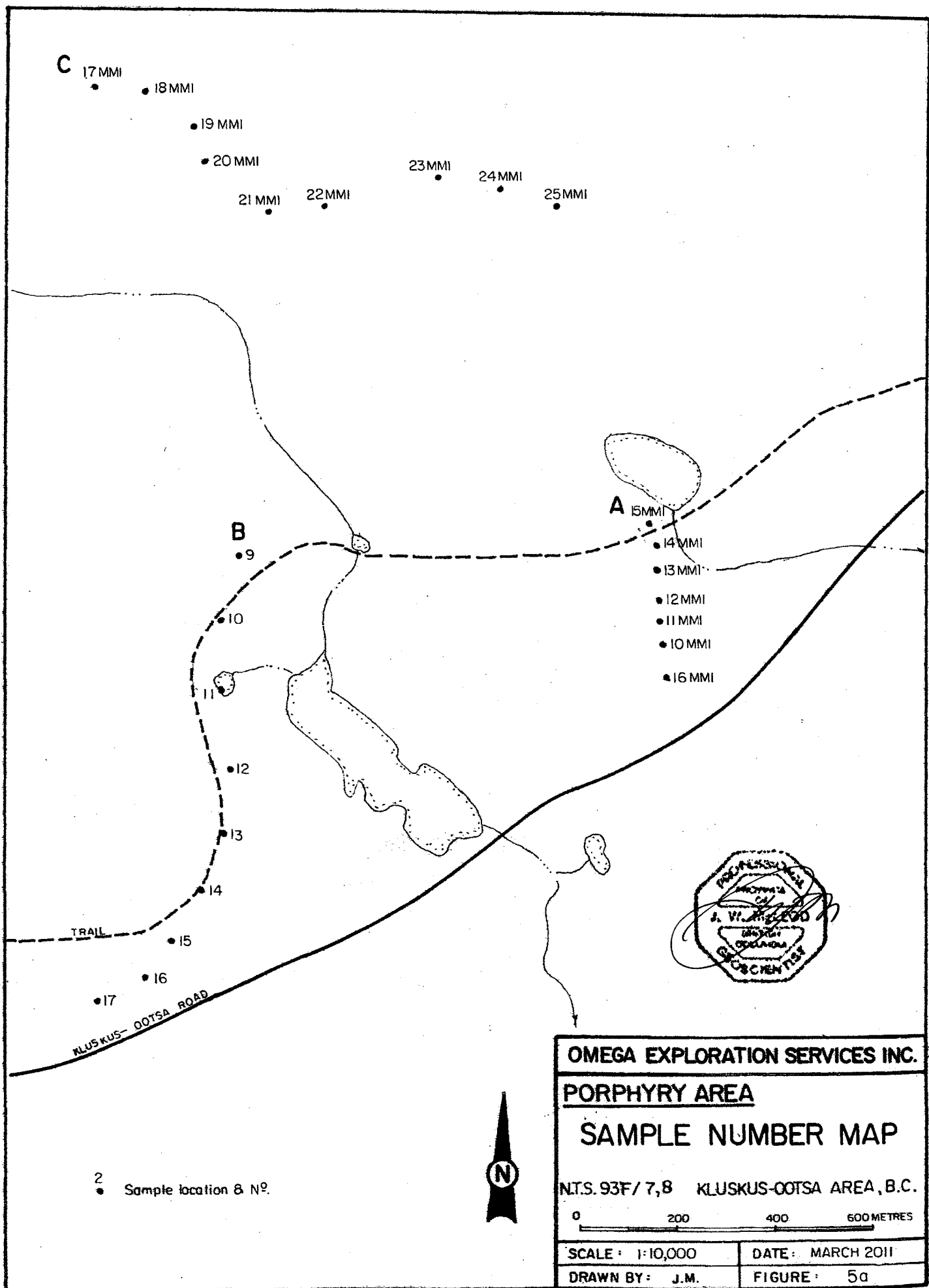
The various elements that are listed underwent a relatively simple statistical procedure to obtain parameters that were used to construct histograms to assist in visualization of the data found to occur at anomalous levels in the albeit small populations.

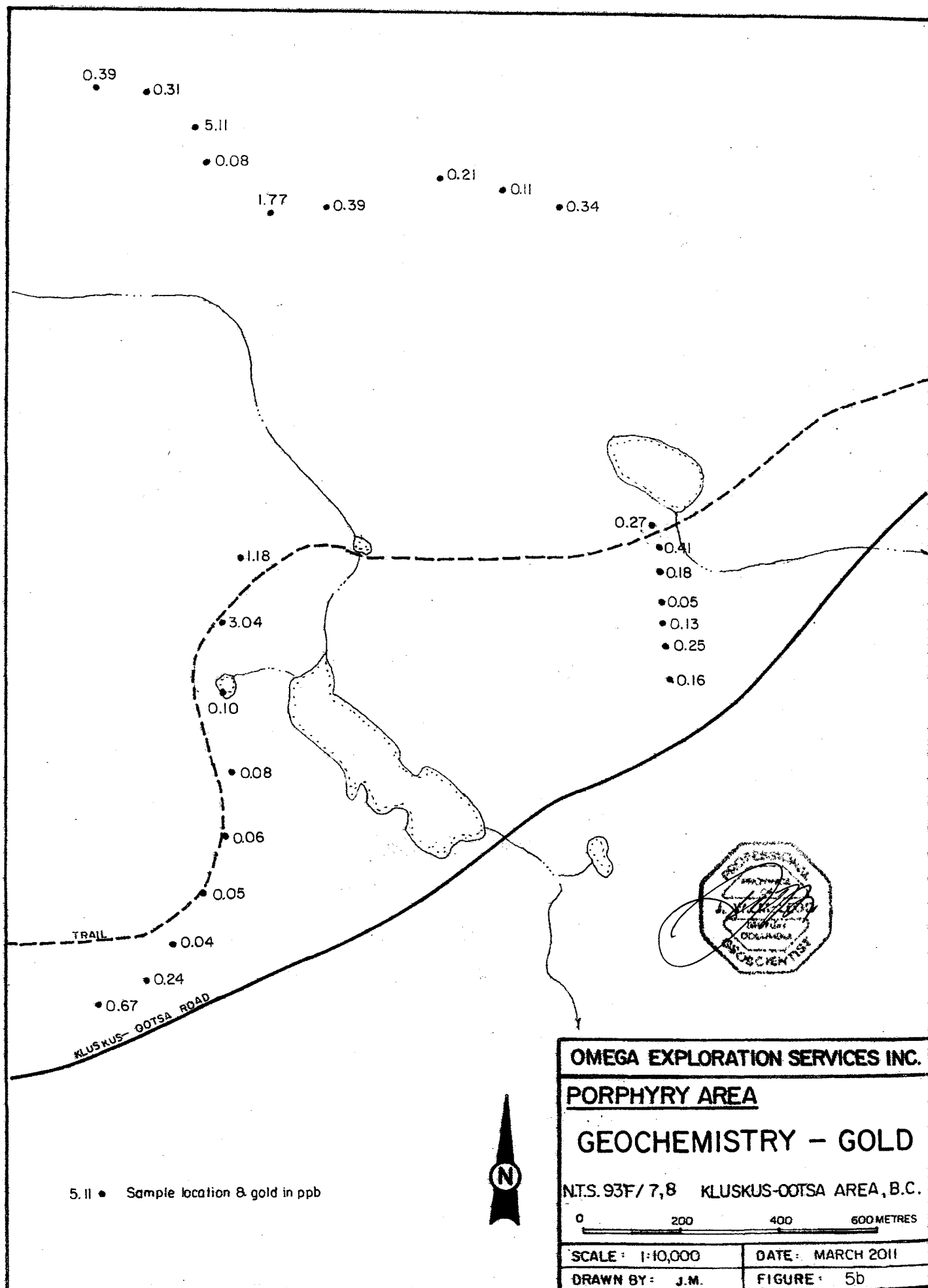
### Porphyry Area

<u>Element</u>	<u>Anomalous</u>	<u>Anomalous No.</u>
Gold	>1.8 ppb	2, 13
Copper	>625 ppb	(2), (13), (15)
Zinc	>525 ppb	11, M10-M13, M17, M20-M24, 13, M25
Arsenic	>7.5 ppb	11, M10-M16, M18-M24, 13, M25

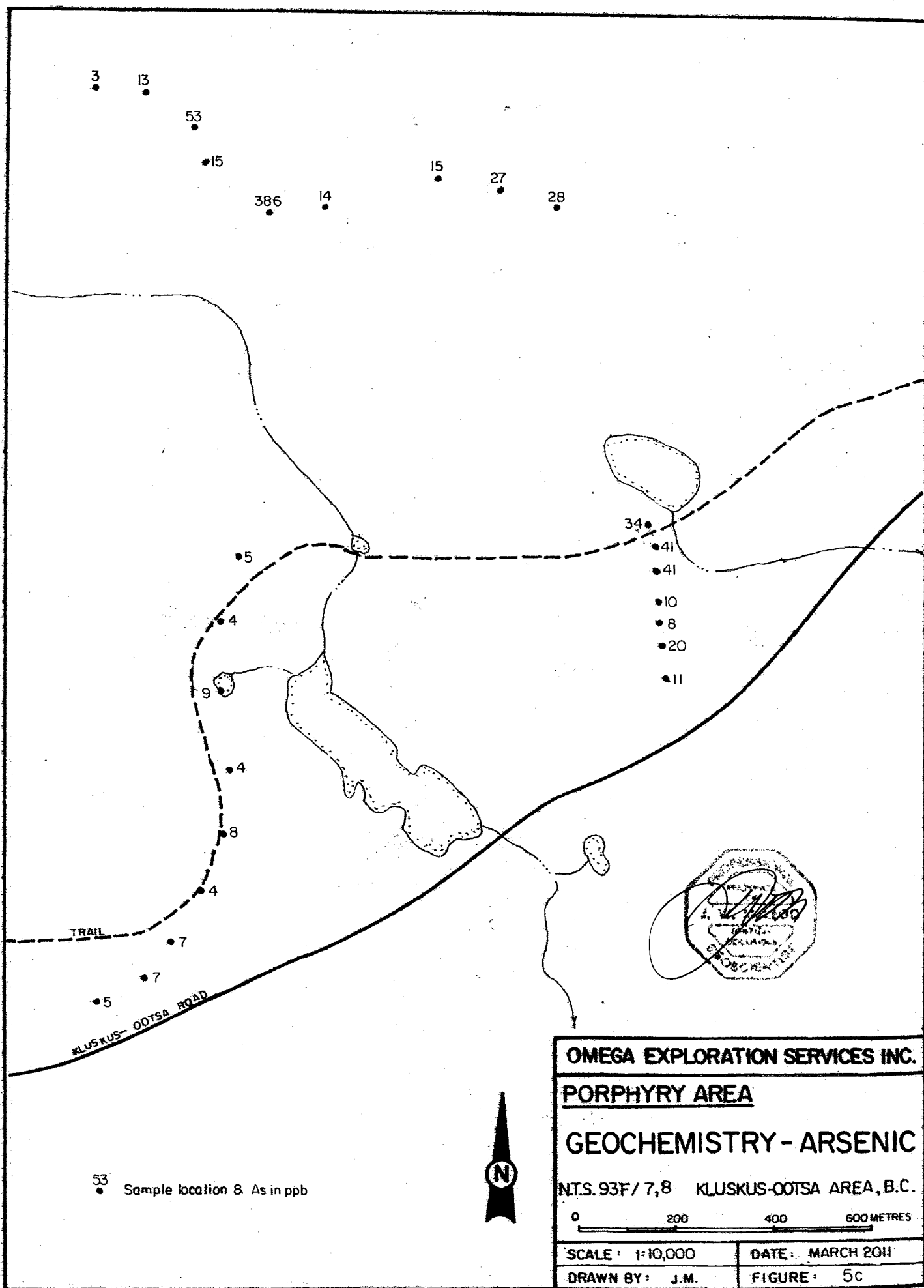
### Recommendations

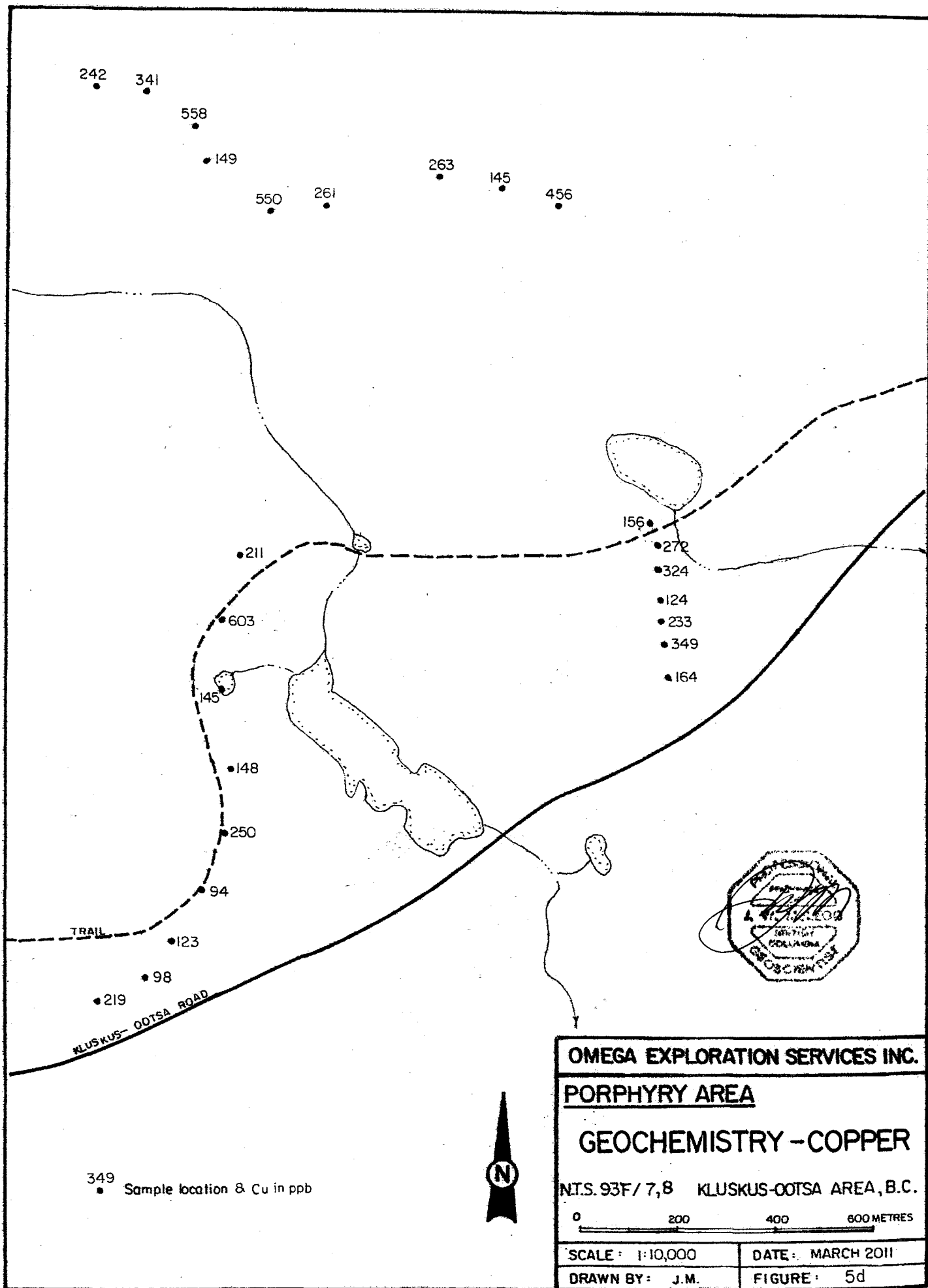
Further MMI soil sampling and IONIC leach geochemistry may be undertaken as fill-in sampling around all potentially anomalous samples.

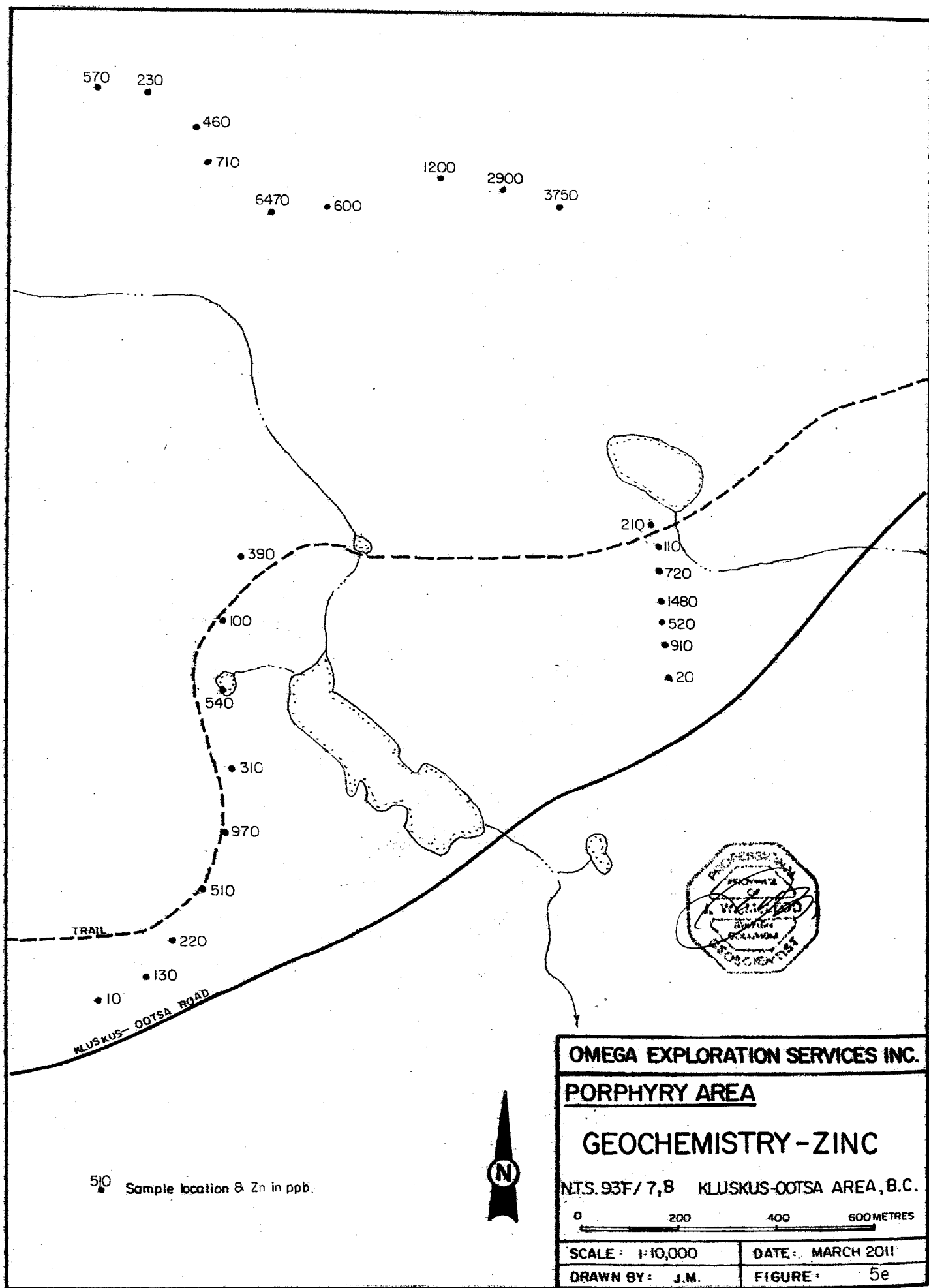










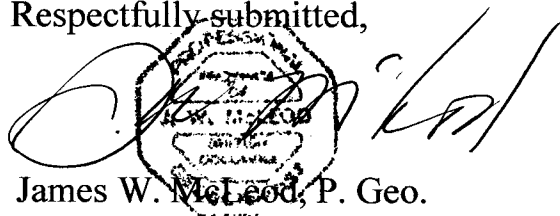


## Cost Estimate

The writer recommends the following possible fill-in programs on the Porphyry project area. The cost estimate for the project is included as follows:

Geologist and supervision for 20 days	\$ 8,000
Field assistants (2) for 20 days	7,000
Room and board for 60 person-days	6,000
Transportation and travel, including 4x4, fuel and oil and living expenses traveling	3,000
Equipment and supplies	1,000
Geochemical IONIC leach analyses	5,000
Maps and reports	1,500
Contingency	<u>3,000</u>
Total	\$ 34,500

Respectfully submitted,



James W. McLeod, P. Geo.

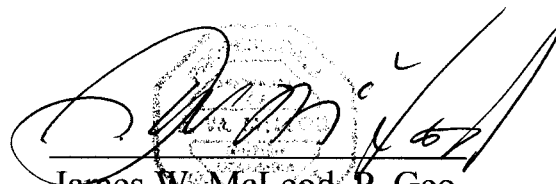
### Statement of Costs

J.W. McLeod, P. Geo., geology and supervision, period Aug. 10-16, 2010	\$ 2,897
Assistants: J.A. McLeod and S.C. McLeod, period Aug. 10-16, 2010	2,400
Camp and board, 21 mandays at \$50/manday	1,050
Transportation, 4x4 and RV	560
Equipment rental: MMI sampling supplies and chainsaw	280
IONIC leach and conventional analyses of soils and rocks, respectively including shipping costs	2,100
Report and maps	<u>600</u>
Total	\$ 9,887

## Certificate

- 1) I, James Wayne McLeod, of the Village of Savona, Province of British Columbia, hereby certify as follows:
- 2) I am a Consulting Geologist with an office at P.O. Box 216, 6857 Valley Road, Savona, B.C., V0K 2J0.
- 3) I am a Professional Geoscientist registered in the Province of British Columbia and a Fellow of the Geological Association of Canada.
- 4) I graduated with a degree of Bachelor of Science, Major Geology from the University of British Columbia in 1969.
- 5) I have practiced my profession since 1969.
- 6) I have a direct interest in both the Porphyry copper-gold project because of the ownership of the Porphyry #1 mineral claim by my wife, Jacqueline A. McLeod. We are also Officers and Directors of Omega Exploration Services Inc.
- 7) The above report is based on personal field experience gained by the author during the period 2001-10. I have also conducted research, both private and public on the Porphyry project area and discussed these properties in detail with knowledgeable parties.

Dated at Savona, Province of British Columbia this 27th day of March, 2011.



James W. McLeod, P. Geo.  
Consulting Geologist

## References

British Columbia Ministry of Energy, Mines and Petroleum Resources  
Assessment Reports on the Porphyry Project area.

McLeod, J.W., 2002-08. Assessment Reports on the Chu and Porphyry area.

Mann, A.W., Birrell, R.D., Mann, A.T., Humphreys, D.B. and Perdrix, J.L.,  
1998. Application of mobile metal ion technique to routine geochemical  
exploration. *Journal of Geochemical Exploration*, **61**, pp. 87-102.

Mann, A.W., Birrell, R.D., Fedikow, M.A.F. and de Souza, H.A.F., 2005.  
Vertical ionic migration: mechanisms, soil anomalies and sampling depth  
for mineral exploration. *Geochemistry: Exploration, Environment, Analysis*,  
Vol. **5**, 2005, pp. 201-210.

## Appendix 1

### Sample Analyses ME-MS23

Porphyry Area, IONIC Leach Soil Data





ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

o: WESTERN MINERALS INC  
PO BOX 216  
SAVONA BC V0K 2J0

Page: 1  
Finalized Date: 30- JAN- 2011  
This copy reported on  
4- FEB- 2011  
Account: WEMINC

**CERTIFICATE VA11006590**

Project: CP  
P.O. No.:  
This report is for 25 Soil samples submitted to our lab in Vancouver, BC, Canada on  
13- JAN- 2011.

The following have access to data associated with this certificate:

JIM MCLEOD

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
EXTRA- 01	Extra Sample received in Shipment

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME- MS23	IONIC Leach - Complete PKG.	ICP- MS
pH- MS23	MS23 Leach pH	

To: WESTERN MINERALS INC  
ATTN: JIM MCLEOD  
PO BOX 216  
SAVONA BC V0K 2J0

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Wayne Abbott, Operations Manager, Western Australia





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2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Page: 2 - B  
Total # pages: 2 (A - E)  
Finalized Date: 30-JAN-2011  
Account: WEMINC

Project: CP

**CERTIFICATE OF ANALYSIS VA11006590**

Sample Description	Method Analyte Units LOR	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23	ME- MS23
		Dy ppb	Er ppb	Eu ppb	Fe ppm	Ga ppb	Gd ppb	Ge ppb	Hf ppb	Hg ppb	Ho ppb	I ppm	In ppb	La ppb	Li ppb
		0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.5	0.1	0.1	0.01	0.1	0.1	0.2
Sa 9		4.0	2.5	1.2	37.8	28.5	3.8	0.2	<0.5	0.5	0.9	0.05	0.1	8.9	0.5
Sa 10		32.6	16.0	10.6	26.6	18.9	37.4	0.8	2.9	0.6	6.5	0.05	0.1	77.9	<0.2
Sa 11		4.0	2.7	1.4	68.2	40.8	3.9	0.3	1.1	0.6	0.9	0.06	0.1	12.4	0.9
Sa 10MMI		6.7	4.0	2.3	52.7	20.9	7.4	0.3	1.4	0.7	1.4	0.10	0.1	26.6	<0.2
Sa 11MMI		6.3	4.2	1.6	90.0	30.7	5.8	0.3	1.0	0.4	1.5	0.06	0.1	16.7	0.4
Sa 12MMI		4.3	2.5	1.4	132.5	31.9	4.6	0.3	1.6	0.7	0.9	0.07	0.2	20.7	0.6
Sa 13MMI		9.5	6.4	2.9	114.5	27.2	10.2	0.5	1.8	0.4	2.1	0.11	0.2	30.6	0.7
Sa 14MMI		5.2	3.0	2.0	47.3	57.2	5.9	0.2	1.1	0.4	1.1	0.06	0.1	20.0	0.2
Sa 15MMI		4.7	2.8	1.6	35.0	32.7	5.0	0.2	0.5	0.4	1.0	0.07	0.1	13.7	1.3
Sa 16MMI		8.5	5.0	2.7	20.6	53.1	9.4	0.2	2.1	0.3	1.8	0.08	<0.1	33.2	<0.2
Sa 17MMI		5.7	3.5	1.7	41.4	29.8	5.3	0.2	0.8	0.4	1.3	0.09	0.1	16.7	<0.2
Sa 18MMI		5.9	4.0	1.6	33.1	26.1	4.8	0.2	0.6	0.3	1.4	0.05	0.2	10.4	<0.2
Sa 19MMI		7.0	5.2	2.1	11.7	28.2	5.5	0.2	<0.5	0.2	1.8	0.03	0.1	6.3	0.3
Sa 20MMI		2.5	2.2	1.1	91.1	59.5	2.0	0.2	0.8	0.3	0.6	0.05	0.4	6.1	0.7
Sa 21MMI		7.9	4.9	2.5	13.5	31.4	7.6	0.3	0.7	0.6	1.7	0.07	0.1	13.3	<0.2
Sa 22MMI		9.0	5.3	2.7	28.1	30.9	9.8	0.3	1.1	0.5	1.9	0.06	0.1	26.4	<0.2
Sa 23MMI		7.6	4.6	2.6	70.4	54.5	8.0	0.3	1.5	0.6	1.7	0.09	0.1	24.6	0.2
Sa 24MMI		10.9	6.8	2.9	122.5	42.1	10.9	0.4	1.8	0.8	2.4	0.06	0.2	33.9	0.6
Sa 12		7.6	4.3	2.9	24.1	29.9	8.7	0.3	1.3	0.6	1.6	0.13	0.1	34.7	0.3
Sa 13		9.2	5.5	3.3	159.0	78.4	10.1	0.6	1.5	0.7	2.0	0.05	0.2	45.3	0.8
Sa 14		5.5	3.4	1.9	31.5	28.8	5.9	0.3	1.2	0.5	1.2	0.09	0.1	23.3	0.4
Sa 15		6.8	4.0	2.4	34.5	28.2	8.0	0.3	1.7	0.6	1.5	0.08	0.1	36.6	0.3
Sa 16		4.3	2.3	1.8	31.6	39.2	5.5	0.3	1.4	0.4	0.9	0.06	0.1	27.3	0.2
Sa 17		16.9	9.1	7.2	3.9	27.1	21.4	0.5	0.7	0.3	3.5	0.06	<0.1	61.3	<0.2
Sa 25MMI		31.8	22.6	7.1	77.1	32.4	24.2	0.6	1.3	0.4	7.8	0.05	0.2	41.2	0.4





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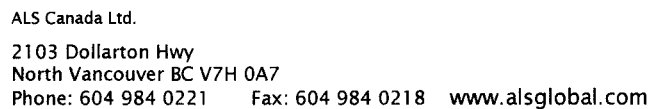
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Sample Description	Method Analyte Units LOR	ME- MS23 Sb ppb 0.5	ME- MS23 Sc ppb 1	ME- MS23 Se ppb 2	ME- MS23 Sm ppb 0.1	ME- MS23 Sn ppb 0.2	ME- MS23 Sr ppb 1	ME- MS23 Ta ppb 1	ME- MS23 Tb ppb 0.1	ME- MS23 Te ppb 1	ME- MS23 Th ppb 0.02	ME- MS23 Ti ppb 5	ME- MS23 Tl ppb 0.5	ME- MS23 Tm ppb 0.1	ME- MS23 U ppb 0.1	ME- MS23 W ppb 1
Sa 9		16.7	13	3	3.5	<0.2	730	<1	0.7	<1	2.44	261	<0.5	0.3	4.3	<1
Sa 10		20.5	48	17	34.9	<0.2	980	<1	6.5	<1	44.4	212	1.2	1.9	42.9	<1
Sa 11		6.5	28	4	3.8	0.4	379	<1	0.7	<1	4.96	1290	<0.5	0.4	4.6	1
Sa 10MMI		5.4	19	7	7.4	<0.2	435	<1	1.3	<1	6.33	289	<0.5	0.5	5.9	1
Sa 11MMI		2.5	20	5	5.3	<0.2	776	<1	1.1	<1	5.52	320	<0.5	0.6	7.4	<1
Sa 12MMI		0.7	21	4	4.8	0.2	669	<1	0.8	<1	11.65	1260	<0.5	0.3	12.1	<1
Sa 13MMI		1.8	28	8	10.4	0.3	195	<1	1.7	<1	8.46	951	<0.5	0.9	7.0	<1
Sa 14MMI		1.3	14	7	6.0	<0.2	1220	<1	1.0	<1	8.15	343	<0.5	0.4	5.2	<1
Sa 15MMI		1.1	16	5	4.8	<0.2	512	<1	0.9	<1	4.37	403	<0.5	0.4	4.4	<1
Sa 16MMI		1.2	18	9	9.1	<0.2	846	<1	1.6	<1	13.00	197	<0.5	0.7	7.7	<1
Sa 17MMI		<0.5	18	4	5.2	<0.2	544	<1	1.0	<1	5.41	121	<0.5	0.5	7.2	<1
Sa 18MMI		1.3	18	4	4.2	<0.2	819	<1	1.0	<1	3.50	103	<0.5	0.6	10.8	<1
Sa 19MMI		0.6	20	4	4.6	<0.2	1490	<1	1.1	<1	1.09	51	<0.5	0.7	5.3	<1
Sa 20MMI		0.7	22	2	2.0	<0.2	1650	<1	0.4	<1	7.93	185	0.6	0.4	10.1	<1
Sa 21MMI		1.2	14	3	7.3	<0.2	2030	<1	1.4	<1	4.19	129	0.5	0.6	8.3	<1
Sa 22MMI		0.6	16	7	9.4	<0.2	753	<1	1.7	<1	7.89	190	<0.5	0.7	7.2	<1
Sa 23MMI		0.6	25	6	7.9	<0.2	844	<1	1.4	<1	8.39	521	<0.5	0.6	10.3	<1
Sa 24MMI		0.7	30	8	10.7	<0.2	654	<1	1.9	<1	10.65	803	<0.5	0.9	8.6	<1
Sa 12		0.7	20	9	8.8	<0.2	206	<1	1.5	<1	8.61	214	<0.5	0.5	11.4	<1
Sa 13		0.6	30	7	9.9	1.1	705	1	1.8	<1	12.55	3420	<0.5	0.7	9.8	1
Sa 14		<0.5	16	8	5.9	<0.2	170	<1	1.0	<1	7.72	357	<0.5	0.4	6.1	<1
Sa 15		<0.5	15	4	8.2	<0.2	262	<1	1.3	<1	14.30	363	<0.5	0.5	8.6	<1
Sa 16		<0.5	12	3	6.0	<0.2	224	<1	0.9	<1	14.50	354	<0.5	0.3	6.2	1
Sa 17		<0.5	12	8	20.7	<0.2	2110	<1	3.4	<1	3.25	32	0.5	1.1	9.3	<1
Sa 25MMI		1.1	46	9	21.7	<0.2	1370	<1	5.0	<1	9.91	381	0.7	3.1	17.9	<1



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Sample Description	Method Analyte Units LOR	ME- MS23 Y ppb 0.1	ME- MS23 Yb ppb 0.1	ME- MS23 Zn ppb 10	ME- MS23 Zr ppb 0.1	pH- MS23 Final pH Unity 0.1
Sa 9		19.5	1.9	390	7.4	7.7
Sa 10		151.5	9.6	100	57.5	7.7
Sa 11		18.0	2.2	540	18.7	7.9
Sa 10MMI		29.1	3.0	910	25.0	7.7
Sa 11MMI		32.5	3.2	520	16.7	6.5
Sa 12MMI		16.7	1.8	1480	27.2	6.5
Sa 13MMI		44.7	4.9	720	31.5	6.8
Sa 14MMI		22.7	2.3	110	19.6	7.9
Sa 15MMI		19.8	2.0	210	9.0	7.9
Sa 16MMI		35.3	3.5	20	39.9	8.3
Sa 17MMI		26.7	2.6	570	14.0	6.8
Sa 18MMI		28.2	2.8	230	10.0	6.5
Sa 19MMI		35.1	3.9	460	4.5	7.7
Sa 20MMI		11.2	3.4	710	14.1	6.5
Sa 21MMI		31.6	3.4	6470	13.8	6.8
Sa 22MMI		40.6	3.8	600	21.4	7.7
Sa 23MMI		33.9	3.3	1200	28.3	7.1
Sa 24MMI		45.3	4.9	2920	32.3	6.5
Sa 12		31.9	2.9	310	23.9	7.7
Sa 13		43.8	4.1	970	28.5	6.5
Sa 14		24.6	2.4	510	20.3	7.1
Sa 15		29.1	2.9	220	29.3	7.9
Sa 16		17.0	1.7	130	25.5	8.3
Sa 17		79.7	5.5	10	11.8	8.7
Sa 25MMI		136.0	15.6	3750	21.3	7.1

## Appendix 2

### Sample Analyses ME-MS41

#### Porphyry Area, Rock Sample Analyses



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P.O. No.:

This report is for 11 Rock samples submitted to our lab in Vancouver, BC, Canada on 13-JAN-2011.

The following have access to data associated with this certificate:

JIM MCLEOD

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1	ME- MS41 Cs ppm 0.05
Sa 1		0.56	1.21	3.28	2.0	<0.2	<10	250	0.22	0.11	0.21	0.02	10.05	5.5	3	2.49
Sa 2		2.14	0.38	3.44	23.1	<0.2	<10	50	0.31	0.08	0.29	0.05	6.81	23.4	5	1.24
Sa 3		0.32	0.24	3.78	5.3	<0.2	<10	90	0.16	0.18	0.12	0.07	4.57	9.9	2	1.92
Sa 4		0.72	0.54	1.48	4.4	<0.2	<10	150	0.23	0.17	0.07	0.01	13.40	5.0	2	0.43
Sa 5		0.66	0.14	2.45	2.1	<0.2	<10	110	0.07	0.02	1.90	0.10	15.50	27.2	208	0.40
Sa 6		0.42	0.69	0.38	3.1	<0.2	<10	90	0.06	0.09	0.03	0.01	9.46	7.3	5	0.50
Sa 7		0.56	0.15	1.32	7.1	<0.2	<10	80	0.20	0.11	0.07	0.35	8.99	10.5	4	1.56
Sa 8		0.54	0.16	2.76	1.5	<0.2	<10	380	0.25	0.09	0.18	0.07	13.70	8.4	3	2.25
Sa 9		0.78	0.79	1.45	8.2	<0.2	<10	50	0.20	0.59	0.16	0.73	11.35	7.7	6	1.59
Sa 10		2.04	0.66	2.01	119.5	<0.2	<10	180	0.32	4.83	1.54	0.86	10.85	17.7	25	1.57
Sa 11		0.60	0.11	1.09	4.2	<0.2	<10	100	0.12	0.38	0.54	0.18	12.05	8.9	10	2.49



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# CERTIFICATE OF ANALYSIS VA11006591

Sample Description	Method Analyte Units LOR	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01	ME- MS41 Nb ppm 0.05
Sa 1		18.5	3.71	11.50	0.13	0.02	<0.01	0.083	1.69	4.0	11.4	2.72	1180	0.80	0.05	0.19
Sa 2		97.3	6.08	11.40	0.13	0.02	0.01	0.077	1.35	2.5	11.2	2.17	763	1.71	0.10	0.05
Sa 3		20.2	5.08	15.70	0.16	<0.02	<0.01	0.099	2.60	1.8	17.3	3.50	1590	1.10	0.07	0.05
Sa 4		4.8	3.72	4.24	0.06	<0.02	<0.01	0.008	0.76	6.5	4.9	0.67	220	0.18	0.07	<0.05
Sa 5		44.4	4.25	8.22	0.10	0.13	<0.01	0.016	0.32	7.9	9.9	2.85	635	0.74	0.14	0.10
Sa 6		14.9	3.76	2.77	0.06	<0.02	0.01	0.006	0.36	4.2	1.6	0.07	50	2.03	0.07	0.05
Sa 7		17.4	3.92	5.31	0.06	<0.02	0.24	0.020	0.64	4.8	13.5	1.00	356	0.80	0.05	0.05
Sa 8		13.7	4.08	11.20	0.08	0.04	<0.01	0.084	1.25	6.4	17.1	2.13	1460	0.45	0.09	0.20
Sa 9		34.9	2.29	5.02	0.09	0.04	0.01	0.026	0.86	5.3	11.7	1.30	478	3.37	0.05	0.17
Sa 10		98.7	3.29	6.62	0.09	0.15	<0.01	0.061	0.31	5.4	8.0	0.65	575	4.49	0.24	0.17
Sa 11		24.4	2.36	4.96	0.10	0.09	<0.01	0.045	0.31	5.5	4.6	0.68	626	0.53	0.15	0.19



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**CERTIFICATE OF ANALYSIS VA11006591**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
Sa 1		2.6	1320	2.9	38.1	0.002	0.70	0.13	12.1	0.5	0.7	11.0	<0.01	0.23	0.7	0.251
Sa 2		5.8	880	2.7	29.8	0.008	4.13	0.19	21.9	6.1	0.6	16.2	<0.01	0.47	0.2	0.172
Sa 3		4.0	900	10.5	45.3	0.006	1.99	0.26	26.4	1.7	1.4	7.2	<0.01	0.18	0.3	0.319
Sa 4		1.1	1010	22.0	16.5	<0.001	1.94	0.34	2.2	1.2	<0.2	13.0	<0.01	0.07	1.0	0.006
Sa 5		106.5	1600	2.9	10.8	<0.001	0.06	0.08	3.1	0.3	<0.2	74.9	<0.01	0.02	0.3	0.131
Sa 6		1.8	380	2.8	9.9	<0.001	2.51	0.15	2.2	1.9	0.2	7.8	<0.01	0.07	1.3	0.012
Sa 7		3.2	400	1.9	18.2	<0.001	3.31	0.67	6.2	0.3	0.2	7.2	<0.01	0.01	0.9	0.064
Sa 8		1.9	990	3.5	31.3	0.001	0.93	0.22	8.9	0.6	0.6	8.6	<0.01	0.06	1.2	0.190
Sa 9		3.2	540	6.7	24.1	0.001	1.30	0.94	7.6	1.4	0.4	12.4	<0.01	0.07	1.1	0.155
Sa 10		29.2	1130	15.9	17.6	0.006	0.80	4.86	8.1	1.1	0.5	98.9	<0.01	0.17	0.8	0.143
Sa 11		4.5	550	5.8	13.8	<0.001	0.16	3.05	6.3	0.4	0.6	25.6	<0.01	0.02	0.7	0.177



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	- ME- MS41	ME- MS41
		Ti	U	V	W	Y	Zn	Zr
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5
Sa 1		0.49	0.38	143	<0.05	5.24	99	<0.5
Sa 2		0.28	0.07	191	<0.05	4.83	62	0.5
Sa 3		0.39	0.08	231	<0.05	2.77	172	<0.5
Sa 4		0.23	0.15	20	<0.05	3.86	23	<0.5
Sa 5		0.06	0.06	117	<0.05	5.64	60	4.6
Sa 6		0.10	0.15	7	<0.05	1.74	3	<0.5
Sa 7		0.22	0.42	85	<0.05	2.29	183	<0.5
Sa 8		0.33	0.43	117	<0.05	10.05	178	0.6
Sa 9		0.23	0.30	71	0.16	5.74	112	0.9
Sa 10		0.25	0.42	94	0.70	11.20	99	4.5
Sa 11		0.34	0.17	79	0.36	9.77	66	1.9



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Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).